

SYLLABUS

2019 - 2020

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
- * Permanently 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."

INDEX**Class: XI**

	Page No.
1. Introduction, Evaluation	1-3
2. English (301)	4-5
3. Mathematics (041)	6-7
4. Physics (042)	8-9
5. Chemistry (043)	10-11
6. Biology (044)	12-13
7. Economics (030)	14-15
8. Physical Education (048)	16-17
9. Computer Science (083)	18-19
10. Psychology (037)	20-21
11. Physical and Health Education	22
12. General Studies	23
13. Year Planner.....	24
14. List of Holidays	25

RUKMINI DEVI PUBLIC SCHOOL
Class XI (Science)

Class : XI

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

Evaluation System:

1. There will be a system of assessments for each subject as per the prescribed syllabus and examination schedule.

Tentative Schedule of Exams:

PT 1	PT 2	PT 3	Pre Annual	Annual
20.06.2019 to 28.06.2019	07.09.2019 to 16.09.2019	11.11.2019 to 20.11.2019	03.01.2020 to 16.01.2020	17.02.2020 to 02.03.2020

Date sheet will be provided a month in advance.

M.M. : As per curriculum

Duration : 3 hrs.

- 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 PTs and Annual Exams.
- Subject wise qualifying criteria is as per CBSE norms.
- It is compulsory for each student to appear in all the tests.
- If a student fail to appear for a test / exam (whatever grounds), he / she would have to pay Rs. 1000/- per test and compulsorily appear in the test/exam in which he/she had remained absent. The amount would be deposited to the Accounts Department.
- The answer sheets having been checked by the teacher will be sent to the parents for their information and signature / acknowledgment.

- 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:

- a. General Studies
- b. Health and Physical Education
- c. Work Experience (SEWA)

Health and Physical Education (HPE) : It is a distinct curricular area integral to health and physical education. In HPE students develop the knowledge, understanding and skills to strengthen resilience personality. Students are provided with an opportunity to get professionally trained in the area of interest focusing on Physical Fitness, Sportsmanship, Self Sacrifice and Health Care.

The content of HPE will comprise 4 strands :

1. Games : The importance of sports /games in school encompasses more than just the benefit of physical activity, which increases self-esteem and mental alertness.
2. Health and Fitness : A programme for sensitization of the students towards their responsibility to reduce symptoms of anxiety and depression and improve physical fitness.
3. SEWA : A programme to prepare the students for social and community service that includes environmental, civic responsibilities, democracy etc.
4. Health and Activity Card : An information about physical development of a child.

Health and Physical activity is given regular class five times a week. It will be assessed on 5 point grade scale under the guidance of facilitating teacher on the basis of Table 1.1.

Distribution of Periods/ Grades For Internal Assessment in Health and Physical Education

(with Work Experience subsumed in it)

TABLE 1.1

Strand	Periods (Approx.)	Grades*
1. GAMES A) Athletics/Swimming B) Team Games C) Individual Games/Activity D) Adventure Sports	90 periods	(A1, A2, B1, B2, C1, C2, D1, D2, E)
2. Health and Fitness	50 periods	
3. SEWA	50 periods	(A1, A2, B1, B2, C1, C2, D1, D2, E)
4. Health and Activity Card	10 periods	
Total	200 Periods (Approx)	

Note : The levels and grade obtained under the first three Strands will be reflected in the report cards.

Subject Code : 301 - English Core		Syllabus: 2019-2020		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		Use of ICT	Use of Labs
PT-1 (June Test) (80)	15.04.19 to 24.05.19	Book 1 : L1- The Portrait of a Lady L2- We are not afraid to die ...if we can all be together Poem 1- 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 Reading : Comprehension & Note Making	Formats and samples for writing skills. Revision Tests	—
Exam Dates	20.06.19 to 28.06.19	Syllabus Covered from 15.04.19 to 24.05.19			
PT-2 (80)	01.07.19 to 06.09.19	Book 1 : L3 - Discovering Tut: The saga continues L4- Landscape of the Soul Poem 2- The Voice of the Rain Poem 3- Laburnum Top	Book 2 : L2- The Address L3 - Ranga's Marriage Writing Skills : Report Writing, Application for Job, Speech Writing Grammar : Integrated grammar exercises Reading : Comprehension & Note Making	Formats and samples for writing skills. Revision Tests	—
Exam Dates	07.09.19 to 16.09.19	Syllabus Covered from 15.04.19 to 06.09.19			

PT-3 (80)	17.09.19 to 10.11.19	Book 1 : L5 - The Ailing Planet : The Green Movement's Role : L6 - The Browning Version : L7- Adventure : Poem 4- Childhood Book 2 : L4 - Albert Einstein at School : L5 - Mother's Day Writing Skills : Invitations & replies, Business letters Grammar : Integrated grammar exercises Reading : Comprehension & Note Making	Formats and samples for writing skills. Revision Tests	—
Exam Dates	11.11.19 to 20.11.19	Syllabus Covered from 15.04.19 to 10.11.19		
Pre Annual	21.11.19 to 31.12.19	Book 1 : L8 - Silk Road : Poem 5- Father to Son Book 2 : L6 - The Ghat of the only World : L7 - Birth Writing Skills : Posters, Debate Grammar : Integrated grammar exercises Reading : Comprehension & Note Making	Formats and samples for writing skills. Revision Tests	—
Pre-Annual Exams (80)	03.01.20 to 16.01.20	Syllabus Covered from 15.04.19 to 31.12.19		
Annual	17.01.20 to 16.02.20	Book 2 : L8 - The Tale of Melon City Grammar : Integrated grammar exercises Reading : Comprehension & Note Making Assessment for Speaking & Listening (ASL)	Formats and samples for writing skills. Revision Tests	—
Annual Exams Theory (80) + ASL (20)	17.02.20 onwards	Syllabus Covered from 15.04.19 to 16.02.20		
Reference books: Together with English Core (Class XI)				

Subject Code : 041 - Mathematics		Syllabus: 2019-2020		Class : XI	
Prescribed Books: Mathematics – A Text book for Class XI (NCERT) Exemplar XI (NCERT)					
TEST/EXAM	DURATION	PARTICULARS		Use of ICT	Use of Labs
PT-1 (June Test) 80	15.04.19 to 24.05.19	Ch 1 : Sets Ch 2 : Relations & Functions Ch 3 : Trigonometric Functions		Presentation by extramarks.com Revision Tests	Activity 1 - To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2^n . Activity 3 - To represent set theoretic operations using Venn diagrams. Activity 6 - To distinguish between a Relation and a Function.
Exam Dates	20.06.19 to 28.06.19	Syllabus Covered from 15.04.19 to 24.05.19			
PT-2 80	01.07.19 to 06.09.19	Ch 4 : Principle of Mathematical Induction Ch 5 : Complex Numbers and Quadratic Equations Ch 6 : Linear Inequalities Ch 7 : Permutations and Combinations Ch 8 : Binomial Theorem		Presentation by extramarks.com Revision Tests	Activity 10 - To plot the graphs of $\sin x$, $\sin 2x$, $2\sin x$ and $\sin x/2$, using same coordinate axes. Activity 11 - To interpret geometrically the meaning of $i = \sqrt{-1}$ and its integral powers. Activity 13 - To verify that the graph of a given inequality, say $5x + 4y - 40 < 0$, of the form $ax + by + c < 0$, $a, b > 0$, $c < 0$ represents only one of the two half planes. Activity 15 - To construct a Pascal's Triangle and to write binomial expansion for a given positive integral exponent.

Exam Dates	07.09.19 to 16.09.19	Syllabus Covered from 15.04.19 to 06.09.19		
PT-3 <u>80</u>	17.09.19 to 10.11.19	Ch 9 : Sequences and Series Ch 10 : Straight Lines Ch 11 : Conic Sections Ch 12 : Introduction to Three Dimensional Geometry Ch 14 : Mathematical Reasoning	Presentation by extramarks.com Revision Tests	Activity 27 : To explain the concept of octants by three mutually perpendicular planes in space.
Exam Dates	11.11.19 to 20.11.19	Syllabus Covered from 15.04.19 to 10.11.19		
Pre Annual	21.11.19 to 31.12.19	Ch 13 : Limits and Derivatives Ch 15 : Statistics	Presentation by extramarks.com Revision Tests	Activity 28 : To find analytically $\lim_{x \rightarrow c} f(x) = \frac{x^2 - c^2}{x^2 - c^2}$
Pre-Annual Exams <u>80</u>	03.01.20 to 16.01.20	Syllabus Covered from 15.04.19 to 31.12.19		
Annual	17.01.20 to 16.02.20	Ch 16 : Probability Complete Syllabus covered during the session + Lab Activities	Presentation by extramarks.com Revision Tests	Activity 33 : To write the sample space, when a coin is tossed once, two times, three times, four times
Annual Exams Theory <u>80</u> Practical <u>20</u>	17.02.20 onwards	Syllabus Covered from 15.04.19 to 16.02.20		
Reference books: 1. Mathematics for Class XI - M.L. Aggarwal 2. New Course in Mathematics by Pradeep for class XI 3. Mathematics Lab Activity Book for Class XI by Lalit Sharma				

Subject Code : 042 - Physics		Syllabus: 2019-2020		Class : XI	
Prescribed Books : Physics – A Textbook for Class XI (NCERT)					
TEST/EXAM	DURATION	PARTICULARS	Use of ICT	Use of Labs	
PT-1 (June Test) <u>70</u>	15.04.19 to 24.05.19	Ch.1 : Physical World Ch.2 : Units & Measurement Ch.3 : Motion in a Straight Line Ch.4 : Motion in a Plane	<ul style="list-style-type: none"> Revision Tests 3-D Lab <ul style="list-style-type: none"> Chapter 4 	Physics Lab 1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume. 2. To measure diameter of a given wire and thickness of a given sheet using screw gauge. 3. To determine radius of curvature of a given spherical surface by a spherometer. 4. To find the weight of a given body using parallelogram law of vectors.	
Exam Dates	20.06.19 to 28.06.19	Syllabus Covered from 15.04.19 to 24.05.19			
PT-2 Theory <u>70</u> Practical <u>30</u>	01.07.19 to 06.09.19	Ch.5 : Laws of Motion Ch.6 : Work, Energy and Power Ch.7 : System of Particles and Rotational Motion	<ul style="list-style-type: none"> Revision Tests 3-D Lab <ul style="list-style-type: none"> Chapter 5 Chapter 7 	5. Using a simple pendulum, plot its L-T ² graph and use it to find the effective length of second's pendulum. 6. To study the relationship between force of limiting friction and normal reaction and to find the co- efficient of friction between a block and a horizontal surface. 7. To determine Young's modulus of elasticity of the material of a given wire. 8. To find the force constant of a helical spring by plotting a graph between load and extension. 9. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body. Activities (Demonstration) <ul style="list-style-type: none"> To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm. To study the variation in range of a projectile with angle of projection. Allocation of the Project.	

Exam Dates	07.09.19 to 16.09.19	Syllabus Covered from 15.04.19 to 06.09.19		
PT-3 (70)	17.09.19 to 10.11.19	Ch.8 : Gravitation Ch.9 : Mechanical Properties of Solids Ch.10 : Mechanical Properties of Fluids Ch.11 : Thermal Properties of Matter	<ul style="list-style-type: none"> • Revision Tests 3-D Lab • Chapter 08 • Chapter 11 	10. To study the relation between frequency and length of a given wire under constant tension using sonometer. 11. To study the relation between the length of a given wire and tension for constant frequency using sonometer. 12. To determine the surface tension of water by capillary rise method. 13. To determine the mass of two different objects using a beam balance. Activities (Demonstration) <ul style="list-style-type: none"> • To observe change of state and plot a cooling curve for molten wax.
Exam Dates	11.11.19 to 20.11.19	Syllabus Covered from 15.04.19 to 10.11.19		
Pre Annual	21.11.19 to 31.12.19	Ch.12 : Thermodynamics Ch.13 : Kinetic Theory	<ul style="list-style-type: none"> • Revision Tests 3-D Lab • Chapter 12 	14. To study the relationship between the temperature of a hot body and time by plotting a cooling curve. 15. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions.
Pre-Annual Exams (70)	03.01.20 to 16.01.20	Syllabus Covered from 15.04.19 to 31.12.19		
Annual	17.01.20 to 16.02.20	Ch.14 : Oscillation Ch.15 : Waves Revision	<ul style="list-style-type: none"> • Revision Tests 3-D Lab • Chapter 14 	Activities (Demonstration) <ul style="list-style-type: none"> • To note the change in level of liquid in a container on heating and interpret the observations. • To study the effect of detergent on surface tension of water by observing capillary rise. Submission of the Project.
Annual Exams Theory Practical (70) (30)	17.02.20 onwards	Syllabus Covered from 15.04.19 to 16.02.20		
Reference books: 1. Together with Physics by Pradeep Publication 2. S.L. Arora (Dhanpat Rai Publications) Together With, Comprehensive Laboratory Manual for Physics				

Subject Code : 043 - Chemistry		Syllabus: 2019-2020		Class : XI	
Prescribed Books: Chemistry – A Textbook for Class XI (NCERT)					
TEST/EXAM	DURATION	PARTICULARS	Use of ICT	Use of Labs	
PT-1 (June Test) (70)	15.04.19 to 24.05.19	Ch 1 : Some Basic Concepts of Chemistry Ch 2 : Structure of Atom Ch 3 : Classification of Elements and Periodicity in Properties	<ul style="list-style-type: none"> Revision Tests 3-D Lab <ul style="list-style-type: none"> Chapter 2 	Chemistry Lab 1. Basic Laboratory Techniques : Cutting glass tube and glass rod, Bending a glass tube, Drawing out a glass jet and Boring a cork.	
Exam Dates	20.06.19 to 28.06.19	Syllabus Covered from 15.04.19 to 24.05.19			
PT-2 Theory (70) Practical (30)	01.07.19 to 06.09.19	Ch 8 : Redox Reactions Ch 4 : Chemical Bonding and Molecular Structure Ch 5 : States of Matter : Gases and Liquids Ch 6 : Chemical Thermodynamics Ch 7 : Equilibrium	<ul style="list-style-type: none"> Revision Tests 3-D Lab <ul style="list-style-type: none"> Chapter 5 Chapter 7 	2. Characterisation and Purification of Chemical Substances : Determination of melting point of an organic compound. 3. Experiments based on pH : To find the pH of given samples. 4. Quantitative Estimation : (a) Determination of strength of a given solution of Sodium Hydroxide by titrating it against standard solution of Oxalic acid. (b) Determination of strength of a given solution of Hydrochloric acid by titrating it against standard Sodium Carbonate solution.	

Exam Dates	07.09.19 to 16.09.19	Syllabus Covered from 15.04.19 to 06.09.19		
PT-3 (70)	17.09.19 to 10.11.19	Ch 09 : Hydrogen Ch 10 : s-Block Elements Ch 12 : Organic Chemistry - Some Basic Principles and Techniques	<ul style="list-style-type: none"> Revision Tests 3-D Lab <ul style="list-style-type: none"> Chapter 10 	5. Chemical Equilibrium : Study the shift in equilibrium between ferric ions and thiocyanate ions by increasing/decreasing the concentration of either of the ions. 6. Qualitative Analysis: Determination of one anion and one cation in a given salt. (Note : Insoluble salts excluded) Allocation of the Project.
Exam Dates	11.11.19 to 20.11.19	Syllabus Covered from 15.04.19 to 10.11.19		
Pre Annual	21.11.19 to 31.12.19	Ch 11 : p-Block Elements Ch 13 : Hydrocarbons	<ul style="list-style-type: none"> Revision Tests 3-D Lab <ul style="list-style-type: none"> Chapter 13 	7. Characterisation and Purification of Chemical Substances : Preparation of Crystals Submission of the Project.
Pre-Annual Exams (70)	03.01.20 to 16.01.20	Syllabus Covered from 15.04.19 to 31.12.19		
Annual	17.01.20 to 16.02.20	Ch 13 : Hydrocarbons (contd.) Ch 14 : Environmental Chemistry Revision	<ul style="list-style-type: none"> Revision Tests 3-D Lab <ul style="list-style-type: none"> Chapter 14 	
Annual Exams Theory Practical (70) (30)	17.02.20 onwards	Syllabus Covered from 15.04.19 to 16.02.20		
Reference books: 1. A textbook of Chemistry by Pradeep Publication. 2. Modern ABC 3. G.R. Bathla Publication APC, Comprehensive Laboratory Manual for Chemistry Note : Project guidelines as per CBSE.				

Subject Code : 044 - Biology		Syllabus: 2019-2020		Class : XI	
Prescribed Books : Biology – A Textbook for Class XI (NCERT)					
TEST/EXAM	DURATION	PARTICULARS	Use of ICT	Use of Labs	
PT-1 (June Test) (70)	15.04.19 to 24.05.19	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	• Revision Tests 3-D Lab • Chapter 16 • Chapter 18	Biology Lab 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.	
Exam Dates	20.06.19 to 28.06.19	Syllabus Covered from 15.04.19 to 24.05.19			
PT-2 Theory (70) Practical (30)	01.07.19 to 06.09.19	Unit V – Human Physiology Ch 20 : Locomotion and Movement 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	• Revision Tests 3-D Lab • Chapter 20 • Chapter 21	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. 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. Allocation of the Project.	
Exam Dates	07.09.19 to 16.09.19	Syllabus Covered from 15.04.19 to 06.09.19			

PT-3 (70)	17.09.19 to 10.11.19	Unit IV : Plant Physiology Ch 13 : Photosynthesis in Higher Plants Ch 14 : Respiration in Plants Ch 15 : Plant Growth and Development Unit III – Cell : Structure and Function Ch 08 : Cell – The Unit of Life Ch 09 : Biomolecules Ch 10 : Cell Cycle and Cell Division	<ul style="list-style-type: none"> Revision Tests 3-D Lab <ul style="list-style-type: none"> Chapter 13 Chapter 15 Chapter 09 Chapter 08 Chapter 07 	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.
Exam Dates	11.11.19 to 20.11.19	Syllabus Covered from 15.04.19 to 10.11.19		
Pre Annual (70)	21.11.19 to 31.12.19	Unit II – Cell : Structural Organisation in Plants and Animals Ch 05 : Morphology of Flowering Plants Ch 06 : Anatomy of Flowering Plants Ch 07 : Structural Organisation in Animals	<ul style="list-style-type: none"> Revision Tests 3-D Lab <ul style="list-style-type: none"> Chapter 05 Chapter 06 	21. Study of Plant Kingdom. 22. Study of Animal Kingdom.
Pre-Annual Exams	03.01.20 to 16.01.20	Syllabus Covered from 15.04.19 to 31.12.19		
Annual	17.01.20 to 16.02.20	Unit I – Diversity of Living World Ch 01 : The Living World Ch 02 : Biological Classification Ch 03 : Plant Kingdom Ch 04 : Animal Kingdom Revision	<ul style="list-style-type: none"> Revision Tests 3-D Lab <ul style="list-style-type: none"> Chapter 14 	
Annual Exams Theory (70) Practical (30)	17.02.20 onwards	Syllabus Covered from 15.04.19 to 16.02.20		
Reference Books: 1. A textbook of Biology by Pradeep Publication. 2. Trumen's Elementary Biology. 3. Comprehensive Laboratory Manual in Biology.				

Subject Code : 030 - Economics		Syllabus: 2019-2020		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		Use of ICT	Use of Labs
PT-1 (June Test) (80)	15.04.19 to 24.05.19	BOOK : I Unit 1 : Introduction Unit 2 : Consumer's Equilibrium and Demand Allocation of project		Use of extramark software PPT on Demand and Factors Affecting Demand	Use of clicker lab
Exam Dates	20.06.19 to 28.06.19	Syllabus Covered from 15.04.19 to 24.05.19			
PT-2 (80)	01.07.19 to 06.09.19	BOOK : I Unit 3 : Producer Behaviour and Supply Unit 4 : Forms of market and price determination under perfect competition with simple applications. BOOK : II Ch 1 : Introduction Ch 2 : Collection of Data		Use of extramark software PPT on Monopoly of Railways	Use of clicker lab
Exam Dates	07.09.19 to 16.09.19	Syllabus Covered from 15.04.19 to 06.09.19			
PT-3 (80)	17.09.19 to 10.11.19	BOOK : II Ch 3 : Organisation of Data Ch 4 : Presentation of Data Ch 5 : Measures of Central Tendency		Use of extramark software	Use of clicker lab

Exam Dates	11.11.19 to 20.11.19	Syllabus Covered from 15.04.19 to 10.11.19		
Pre Annual	21.11.19 to 31.12.19	BOOK : II Ch 6 : Measures of Dispersion Ch 7 : Correlation	Use of extramark software	Use of clicker lab
Pre-Annual Exams (80)	03.01.20 to 16.01.20	Syllabus Covered from 15.04.19 to 31.12.19		
Annual	17.01.20 to 16.02.20	BOOK : II Ch 8 : Introduction to Index Numbers Submission of Project	Use of extramark software	Use of clicker lab
Annual Exams Theory Project (80) (20)	17.02.20 onwards	Syllabus Covered from 15.04.19 to 16.02.20		
<p>Reference Books: 1. Statistics for Economics – Sandeep Garg 2. Introductory Microeconomics – Sandeep Garg 3. Statistics for Economics - N.M. Shah</p> <p>Project Work: The students will be encouraged to develop project, as per the suggested project guidelines. Case studies of a few organisations / outlets will also be encouraged. Under this the students will do only ONE comprehensive project using concepts from both Book I and Book II.</p>				

Subject Code : 048 - Physical Education		Syllabus: 2019-2020		Class : XI	
Prescribed Books: Saraswati Health & Physical Education					
TEST/EXAM	DURATION	PARTICULARS	Use of ICT	Use of Labs	
PT-1 (June Test) (70)	15.04.19 to 24.05.19	Unit 1 : Changing trends and career in physical education Unit 2 : Olympic Value Education Unit 3 : Physical Fitness, Wellness and Life Style	—	<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. 	
Exam Dates	20.06.19 to 28.06.19	Syllabus Covered from 15.04.19 to 24.05.19			
PT-2 Theory (70) Practical (30)	01.07.19 to 06.09.19	Unit 4 : Physical Education and Sports for CWSN (Children With Special Needs- Divyang) Unit 5 : Yoga Unit 6 : Physical Activity and Leadership Training Unit 7 : Test, Measurement and Evaluation	—	<ul style="list-style-type: none"> Practical - 1: Labeled diagram of 400 M Track & Field with computations. Practical - 2: Computation of BMI from family or neighbourhood & graphical representation of the data. 	

Exam Dates	07.09.19 to 16.09.19	Syllabus Covered from 15.04.19 to 06.09.19		
PT-3 (70)	17.09.19 to 10.11.19	Unit 8 : Fundamentals of Anatomy Physiology and Kinesiology in Sports Unit 9 : Psychology and Sports	—	<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)
Exam Dates	11.11.19 to 20.11.19	Syllabus Covered from 15.04.19 to 10.11.19		
Pre Annual	21.11.19 to 31.12.19	Unit 10 : Training and Doping in Sports	—	<ul style="list-style-type: none"> • Practical - 5: Pictorial presentation of any five Asanas for improving concentration. • Viva and Record File
Pre-Annual Exams (70)	03.01.20 to 16.01.20	Syllabus Covered from 15.04.19 to 31.12.19		
Annual	17.01.20 to 16.02.20	Revision of Complete Syllabus covered during the session	—	
Annual Exams Theory (70) Practical (30)	17.02.20 onwards	Syllabus Covered from 15.04.19 to 16.02.20		
Reference books: Together with Physical Education by S. Saini				

Subject Code : 083 - Computer Science		Syllabus: 2019-2020		Class : XI	
TEST/EXAM	DURATION	PARTICULARS	Use of ICT	Use of Labs	
PT-1 (June Test) (70)	15.04.19 to 24.05.19	Unit 1 : Computer Systems and Organization	—	Demonstration of Cloud Concept (for storage etc.)	
Exam Dates	20.06.19 to 28.06.19	Syllabus Covered from 15.04.19 to 24.05.19			
PT-2 Theory (70) Practical (30)	01.07.19 to 06.09.19	Unit 2 : Computational Thinking and Programming	—	Python Programms dealing with - Print Statement - Data Types and Operators - Conditional Construct - Looping Construct - Lists, Tuples, Dictionaries and Strings Debugging of Code	

Exam Dates	07.09.19 to 16.09.19	Syllabus Covered from 15.04.19 to 06.09.19		
PT-3 (70)	17.09.19 to 10.11.19	Unit 3 : Data Management Unit 4 : Society, Law & Ethics - Cyber Safety	—	Practical on : SQL Commands Project work
Exam Dates	11.11.19 to 20.11.19	Syllabus Covered from 15.04.19 to 10.11.19		
Pre Annual	21.11.19 to 31.12.19	Revision of Complete Syllabus covered during the session	—	—
Pre-Annual Exams (70)	03.01.20 to 16.01.20	Syllabus Covered from 15.04.19 to 31.12.19		
Annual	17.01.20 to 16.02.20	Revision of Complete Syllabus covered during the session	—	
Annual Exams Theory (70) Practical (30)	17.02.20 onwards	Syllabus Covered from 15.04.19 to 16.02.20		
Reference books: 1. Introduction to Computation and Programming Using Python - by John Guttag 2. Learn to Code with Python by Ana Bell 3. Cybersecurity Ethics : An Introduction by Mary Manjikian. 4. NoSQL for Dummies - Adam Fowler				

Subject Code : 037 - Psychology		Syllabus: 2019-2020		Class : XI	
Prescribed Books: NCERT Psychology for Class XI					
TEST/EXAM	DURATION	PARTICULARS		Use of ICT	Use of Labs
PT-1 (June Test) (70)	15.04.19 to 24.05.19	Ch.1 : What is Psychology? Ch.7 : Human Memory		Understanding memory-youtube Information processing model- executive system of brain: youtube	Clicker Lab
Exam Dates	20.06.19 to 28.06.19	Syllabus Covered from 15.04.19 to 24.05.19			
PT-2 Theory (70) Practical (30)	01.07.19 to 06.09.19	Ch.3 : The Bases of Human Behaviour Ch.5 : Sensory, Attentional and Perceptual Processes Ch.8 : Thinking Project : Introduction Practical : Introduction to experimental psychology		http://nbia.ca/brain-structure-function/ http://www.brainwaves.com/ https://www.biausa.org/brain-injury/about-brain-injury	Clicker Lab
Exam Dates	07.09.19 to 16.09.19	Syllabus Covered from 15.04.19 to 06.09.19			
PT-3 (70)	17.09.19 to 10.11.19	Ch.4 : Human Development Ch.6 : Learning Practical : A short term memory experiment (by: George A.Miller) Allocation of Project		https://www.youtube.com/watch?v=gxE MkOtB8tM https://www.psychestudy.com/behavioral/learning-memory/classical-conditioning/pavlov https://www.nap.edu/read/9747/chapter/5#67	Clicker Lab

Exam Dates	11.11.19 to 20.11.19	Syllabus Covered from 15.04.19 to 10.11.19		
Pre Annual	21.11.19 to 31.12.19	Ch.2 : Methods of Enquiry in Psychology. Ch.9 : Motivation and Emotion Submission of Project	· The Candy Tree - motivational animated short film - new perspective. (youtube) · Emotional short animated film. (youtube)	Clicker Lab
Pre-Annual Exams (70)	03.01.20 to 16.01.20	Syllabus Covered from 15.04.19 to 31.12.19		
Annual	17.01.20 to 16.02.20	Revision of Complete Syllabus	—	—
Annual Exams Theory Practical (70) (30)	17.02.20 onwards	Syllabus Covered from 15.04.19 to 16.02.20		
Reference Books:				
<ul style="list-style-type: none"> * A.K Bhatnagar (Psychology with Practicals) * Dr. Kenneth Gray (Introduction to Psychology) * Robert A. Baron (Psychology 5th Edition) * Morgan and King (Psychology) 				

Subject Code : 502- Physical and Health Education		Syllabus : 2019-2020		Class : XI	
MONTH		PARTICULARS			
April'19 to August' 19		<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' 19		Mid Term Assessment			
October'19 to December' 19		<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' 20		Final Assessment			
<p>Self Defence Training for Girl Students :</p> <p>Commands - Ray Group, Right Rest - Hands down, Sico Dachi Punch Position - stance- ready up right side right leg with both hands at waist with punch (close fingers & lock by thumb).</p> <p>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 : General Studies		Syllabus : 2019-2020	Class : XI
MONTH	PARTICULARS		
April'19 to August' 19	<ul style="list-style-type: none"> • Value Education workshops - as per the schedule . • Monthly Presentations : on Following given topic : <ol style="list-style-type: none"> a. Science and Technology (July) b. Understanding Social Structure (July) 		
September' 19	Mid Assessment		
October'19 to December' 19	<ul style="list-style-type: none"> • Monthly Presentations : on following given topic : <ol style="list-style-type: none"> a. Protection of Environment (October) b. National Unity (October) c. International Understanding(November) 		
January' 20	Final Assessment		
<p>Note: Grading will be done as per CBSE guidelines and all above topics will be covered through workshops.</p>			

Year Planner : 2019-2020			Class : XI
MONTH	DATE & DAY	DETAILS	
April' 19	15.04.2019 (Monday)	Commencement of the Session	
	20.04.2019 (Saturday)	Parent's Workshop : Career Counseling	
	26.04.2019 (Friday)	Student's Workshop : Treading the Career Path	
May' 19	03.05.2019 (Friday)	Educational Visit : Visit to AIIMS (Science Students)	
	25.05.2019 (Saturday) to 31.05.2019 (Friday)	Summer Break	
June' 19	01.06.2019 (Saturday) to 19.06.2019 (Wednesday)	Summer Break	
	20.06.2019 (Thursday) to 28.06.2019 (Friday)	PT – 1 Examination	
July' 19	05.07.2019 (Friday)	Principal's Session	
	11.07.2019 (Thursday)	Students' Workshop : Social Networking Ethics	
	18.07.2019 (Thursday)	Value Education Workshop : Responsibility by XI A	
	25.07.2019 (Thursday)	Value Education Workshop : Positive Approach by XI B	
	27.07.2019 (Saturday)	Parent Teacher Meeting and Book Fair	
August' 19	01.08.2019 (Thursday)	Value Education Workshop : Respect and Courtesy by XI C	
	05.08.2019 (Monday)	Value Education Workshop : Conflict Resolution by XI D	
	17.08.2019 (Saturday)	Parent's Workshop : 3 P's of Positive Parenting	
September' 19	07.09.2019 (Saturday) to 16.09.2019 (Monday)	PT – 2 Examination	
	19.09.2019 (Thursday)	Students' Workshop : Mapping for Success	
	27.09.2019 (Friday)	Educational Visit : NPL (Science Students)	
October' 19	05.10.2019 (Saturday)	Parent Teacher Meeting and Book Fair	
	09.11.2019 (Saturday)	'Chrysalis', Senior Annual Day & Prize Distribution Ceremony	
November' 18	11.11.2019 (Monday) to 20.11.2019 (Wednesday)	PT -3 Exam	
	20.11.2019 (Wednesday)	Senior Sports Day	
December'19	31.12.19 (Tuesday) to 07.01.20 (Tuesday)	Winter Break	
January' 20	03.01.2020 (Friday)to 16.01.2020 (Thursday)	Pre-Annual Examination	
	25.01.2020 (Saturday)	Parent Teacher Meeting and Book Fair	
February – March' 20	17.02.2020 (Monday) to 02.03.2020 (Monday)	Annual 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: 2019-2020

Class : XI

MONTH	DATE & DAY	DETAILS
April'19	17th Wednesday 19th Friday	Mahavir Jayanti Good Friday
May'19	18th Saturday	Buddha Purnima
August '19	12th Monday 15th Thursday 24th Saturday	Id – Ul – Zuha (Bakrid) Independence Day & Raksha Bandhan Janmashtami
September'19	10th Tuesday	Muharram
October'19	2nd Wednesday 7th Monday & 8th Tuesday 17th Thursday 26th Saturday to 29th Tuesday	Mahatma Gandhi Birthday Dussehra Karva Chauth Diwali Break
November'19	12th Tuesday	Guru Nanak's Birthday
December'19	25th Wednesday	Christmas Day
January'20	26th Sunday	Republic Day