

Senior-Yearly-Syllabus2018-19Motilal Nehru Public School
Jamshedpur
Yearly Syllabus: 2019-2020
XII A,B,C

*ENGLISH LITERATURE	
UT-1	FIRST TERM
The Tempest-Act-III	The Tempest-Act-I,II,III & IV
	Prose - The Singing lesson (Selected portion of Class XI)
	Poetry - John Brown (Selected portion of Class XI)
UT-2	SECOND TERM
Project & Class Test	The Tempest-Act-I To V
	Prose: The Singing lesson,B.Wordsworth & Selected Portion
UT-3	Poetry- The Darkling Thrush,We are the Music Makers & Selected Portion
The Tempest-Act-V	(Selected portion of Class XI & 1st term)
PRE-BOARD	
The Tempest (Revision whole text), Prose-The Sound Machine & Whole Portion, Poem: Birches & Whole Portion	
Whole portion of class XI & XII	
ENGLISH LANGUAGE	
UT-1	FIRST TERM
Report, Proposal,Grammer	Essay-Narrative , Reflective ,Argumentative(1 each),
	Report writing- Personal Profile,Article. Proposal Writing. Grammar - All types as per ISC syllabus.
	Comprehension-I
UT-2	SECOND TERM
Assignment,Listening & Speaking skills.	Essay-Descriptive ,Argumentative(1 each), Report writing-SOP,Speech Writing. Proposal Writing.
UT-3	Grammar - All types as per ISC syllabus,Comprehension-I
Report, Proposal,Grammer	
Pre Board Exam Portion	
Revision, Sample papers / Model Test papers, Revision of the entire portion.	
HINDI	
UT-1	FIRST TERM
Kya Nirash hua jaye, Jaag tujhko door	Kya Nirash hua jaye, Jaag tujhko door jana hai, Bhakteen, Putra Prem, Sakhi Udyami Nar,
jana hai, muhaware,Vakya Shudh Karo	Sara Aakash(1-5),Nibandh - 2, Apathit Gdyanash-2, Muhaware, Vakya Shudh Karo
	SECOND TERM
UT-2	Sanskriti Kya hai?, Sharnagat, Satti, Badal ko Ghirate dekha hai, Baal leela, Ek fool ki chah

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Project & Class Test on Five samasamyic nibandh	Nibandh - 2, Apathit Gdyansh-2, Muhaware, Vakya Shudh Karo,Sara Aakash(6-8)
UT-3	
Majboori, Tulsidas ke Pad, muhaware, Vakya Shudh Karo	
Pre Board Exam Portion	
Majboori, Tulsidas ke Pad, Sara Aakash(9,10),Whole year portion	
Hindi Bhasha aur Vyakaran- Prastaav Lekhan and portion covered in class XI & XII	
(i) Ashudh vakya sey shudh vakya,ii) Muhavaron ka vakyon main prayog karein	
UT-1	BIOLOGY
	FIRST TERM
Reproduction in organisms,Sexual reproduction in flowering plants	Reproduction in organisms,Sexual reproduction in flowering plants
	Genetics-Principles of inheretance and variation ,Human Health and Diseses,Biotechnology-Principles and processes,Ecology - Organism and Populations,
UT-2	SECOND TERM
Project Work and Class Test(Human reproduction and Reproductive Health)	Human reproduction and Reproductive Health,Genetics - Molecular Basis of Inheretance Strategies for Enhancement in Food Production,Applications of Biotechnology in Health and agricutulture,Ecology.
UT-3	
Biotechnology(1st term and 2nd term), Microbes in Human Walfare	
Pre Board Exam Portion	
Portion covered in all Unit Test & all terms, Biodiversity and its Conservation,Genetics and evolution, Microbes in Human Welfare,Origin of Life, Biotechnology,Environmental Issues.	
	BIOLOGY PRACTICAL
	FIRST TERM
	TAXONOMY -Family- MALVACEAE,SOLANACEAE.
	PHYSIOLOGICAL EXPERIMENTS- Study of arrangement of Stomata in dicot and Monocot leaves.
	Study of Soil-Texture, Moisture Content pH
	Slide preparation -Germination of Pollengrain,T.S of Ovary of any local Flower .
	Spotting-To Identify the flowers Polinated by Different Agency,T.S of Ovary of any local Flower
	Showing type of Placentation,T.S of ovary,testis of Mammal.

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	SECOND TERM
	TAXONOMY -Family-LEGUMINOSAE, COMPOSITAE, Physiological experiments- Study of
	Soil-Humus Content, Water Holding Capacity, Slide preparation - T.S of Hydrophyte,
	L.S. of Monocot and Dicot Seed, Spotting- Plasmodium sporozoite, Entamoeba histolytica,
	T.S. of BLASTULA MAMMAL, Study of pollination by wind /insect .
	Pre Board Exam Portion
	Family- LILIACEAE
	Physiological experiments- To Isolate DNA From available Plant material.
	Slide preparation - Portion of 1st and 2nd Term
	Spotting- Preserved Specimen of Ascaris
	All practical classes will be held on the availability of the material.
	*COMPUTER
UT-1	FIRST TERM
Boolean Algebra(Till 1.10), Computer Hardware-(Till 2.2), Java -Portion covered so far in XI & XII	Boolean Algebra and Computer Hardware-(Till 2.3.3(Decoder), Java revision tour Revision Chap: Objects and Classes, Primitive values, Type casting and Expressions, Statement, Control Structures and Scope, Functions/Methods Array & Strings, Portion covered in class XI & XII
UT-2	SECOND TERM
Resursion, Multiplexer, Boolean Algebra	Revision Chapter of Class XI, Concept of Inheritance , Computing and running JAVA programs JAVA Classes -an Oop Perspective, Simple Data Structure-Stack and Queue, Portion covered so far in XI & XII
UT-3	Pre Board Exam Portion
Boolean Algebra, Java -Portion covered so far, Tree.	Recursive data structure, Complexity & Computation. Entire portion of class XI & XII
	*MATHEMATICS
UT-1	FIRST TERM
Relation and Function, Inverse Trigonometric Function,	Section -A : Continuity and Differentiability , Indeterminate form, Matrices, Portion covered in UT I Section B : Vectors Section C : Application of Calculus in Commerce and Economics
UT-2	SECOND TERM
Determinant & Probability (Till Baye's theorem)	Section A : Application of Derivative, Integration(Ex : 8.1 to 8.8) , Portion covered in UT II Section B : Vectors, 3 - Dimensional geometry (straight line , Basic sums of Plane) Section C : Application of calculus in commerce and economics, Linear Regression

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UT-3	
Integration (Indefinite and Definite	
Integral)(Integration limit as a sum)	
Pre Board Exam Portion	
Section A : Differential Equation, Probability (After Baye's theorem) : Theoretical probability, Distribution, Probabilty Distribution	
Function, Mean and Variance of random, variable, Bernauli trial , binomial distribution - its mean , variance	
Section B: Application of integration	
Section C : L.P.P	
PRACTICE MODEL TEST PAPERS , WHOLE SYLLABUS OF MATHS BOOK	
*PHYSICS	
UT-1	FIRST TERM
Gauss Theorem,Capacitors	Electrostatics,Current Electricity,Magnetic effect of current and Magnetism,Electro-magnetic Induction
	Portion covered in UT-1
UT-2	SECOND TERM
Project & class Test on Alternating current,Electromagnetic	Ray Optics,Wave Optics,First term portion
Waves	
UT-3	
Dual nature of radiation and matter	
Pre Board Exam Portion	
Communication System,Electroic Device,Photon,Atom and Nuclei, Revision Entire Portion	
*PHYSICS PRACTICAL	
	1st TERM
	Optics: (1) To determine the focal length of given convex lens by double pin method (u-v method)
	(2) To determine Resistance per unit length of a given wire.
	Electricity : (3) To determine resistance per unit length of a given wire.(4) To study balanced
	wheat stane bridge.(5) To Determine the focal length of a convex lens with the help of other convex lense
	2nd TERM
	Optics : (5) To verify the newton's formula for a converging lens forming a real image.
	Electricity : (6) To study variation of potential difference with the length of wire.
	(7) To measure e.m.f of a dry cell using potentiometer.
	(8) To study variation of potential difference across ends of potentiometer wire by changing
	external resistance and determining the e.m.f of a cell, portion covered in 1st term

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3rd TERM	
	Portion covered in 1st term and 2nd term,
	Optics : Revision of 1st term and 12nd term
	Electricity : (9) To determine the specific resistance of a given wire.
	(10) To determine the specific resistance of the material of the given resistance wire.
	(11) To study variation of resistance with length using wheatstone bridge principle.
	(12) To determine the specific resistance of the material of given wire using principle of wheatstone bridge.
*CHEMISTRY	
UT-1	FIRST TERM
Solution, Alkylhalide & Arylhalide	Solid state, Chemical Kinetics, Alcohols , Phenols & Ether
	Portion covered in UT-I
UT-2	SECOND TERM
Chemical kinetics, Alcohols , Aldehyde & Ketone	
UT-3	Electrochemistry, Organic Compounds containing Oxygen (Carboxylic Acid & Derivatives)
Carboxylic acid and its derivatives,	Gr.15 -18 Elements and Compounds, Portion covered in UT-II & 1st term,,
Coordination Compounds	
Pre Board Exam Portion	
Polymers, Bio- molecules , Surface chemistry, Transition Elements, Compound containing Nitrogen, Chemistry in Everyday Life	
*CHEMISTRY PRACTICAL	
	FIRST TERM
	Detection of organic compounds - a) Glucose as carbohydrate, b) Formaldehyde c) Acetone
	Entire std XI portion (Revision)
	SECOND TERM
	Detection of organic compounds - a) Aniline, b) Glycerol c) Benzoic Acid
	Entire std XI portion, 1st term (Revision)
Pre Board Exam Portion	
Rate of reaction : a) Sodium Thiosulphate and Dil. HCL, b) Mg-strip and dil. Sulphuric acid, Comparison of Carbohydrate and Protein	
pH Test using pH strip and universal indicator	
Entire std XI portion, 1st term & 2nd term (Revision)	
Note: Practical classes will be held according to the availability of chemicals.	
*ECONOMICS	
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Demand & Law of Demand	Demand & Law of Demand,Elasticity of Demand,Supply,Market Mechanism,Laws of Returns, Forms of market,Theory of Consumer Behaviour,Money,Banks
UT-2	SECOND TERM
Project :1) Compare the contribution made and by different sectors of the economy towards GDP growth during the planning period.	Cost and Revenue,Producers Equilibrium,Theory of Income and Employment,,Government Budget, National Income(Aggregates),Fiscal Policy,Determination of Equilibrium Price & Output Under Perfect Competition,Portion covered in first term
2) Make a comparative analysis of lending performance of five Commercial Banks in the past six years with reference to the changing CRR and SLR & Class Test on Cost and Revenue	
UT-3	
Income and Employment,Cost & Revenue	
Pre-Board Exam Portion	
National Income,Balance of payments and Exchange Rate,Entire Syllabus covered in all terms	
*COMMERCE	
UT-1	FIRST TERM
Business Environment,Capital Fixed and working	Business environment, Sources of finance for joint stock co. Banking-Latest trends, Management Meaning nature & importance & portion covered in 1st Unit Test
UT-2	SECOND TERM
Project on Function of Commercial Banks & Consumer Protection	Functions of Management & co-ordination,Principles of Management- Planning
UT-3	Organising , Staffing, Directing, Controlling & principles of management
Market Concepts & Marketing Mix	
Pre-Board Exam Portion	
Marketing concepts, functions, Marketing mix & consumer protection and portion covered in 1st & 2nd term	
*BUSINESS STUDIES	
UT-1	FIRST TERM
Human Resource Management,Job and Manpower planning	Staff Recruitment,Staff Selection ,Training,Morale,Remuneration and Staff Motivation & UT portion
UT-2	SECOND TERM
Project on Business Communication	Staff leadership and Promotion Transfer and Separation,Staff Appraisal,Emerging trends in Human Resources,Business Communication,Business Correspondance & UT 2 portion
UT-3	

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Pre-Board Exam Portion	
Reports, report writing & various	Sources of Business Finance, Globalisation, E-Business, Outsourcing, Business regulators and
Business Entities & Globalisation	Intermediaries & portion covered in 1st & 2nd term
*ACCOUNTS	
UT-1	FIRST TERM
Accounting for partnership firms - fundamentals ,	Partnership Account (Fundamental), Admission of a Partner , change in profit sharing ratio ,
Goodwill	Retirement and death of a partner, Goodwill
UT-2	SECOND TERM
Project & Class Test on partnership & cash	Issue of shares and debentures, Redemption of Debentures
flow statement	Dissolution of a partnership firm, All Portion of 1st Term
UT-3	
Company Final accounts, Financial statement analysis	
Pre-Board Exam Portion	
Cashflow statements, Accounting Ratio and financial statement analysis, Company Final accounts	
Portion covered in First term & second term	
*ETHICS	
	FIRST TERM
	Know Yourself, Value of the Month
	SECOND TERM
	Spirit of Positivity, Value of the Month
Pre-Board Exam Portion	
	Successful People as Role Models, Value of the Month
*S.U.P.W.	
	FIRST TERM
	News paper Drive
	SECOND TERM
	Social Service to Needy (Collection of old clothes, medicines and other materials and packed in a form of gift). Minimum three items should be brought by each student.
Pre-Board Exam Portion	
	Visit to NML/Water Treatment Plant (XII-A) / (XII-B)

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	Visit to Bank/LIC(XII-C)
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