

Senior-Yearly-Syllabus2018-19Motilal Nehru Public School
Jamshedpur
Yearly Syllabus: 2018- 2019
XII A,B,C

ENGLISH LITERATURE	
UT-1	FIRST TERM
The Tempest-Act-III	The Tempest-Act-IV
	Prose - The Singing lesson (Selected portion of Class XI)
	Poetry - John Brown (Selected portion of Class XI)
UT-2	SECOND TERM
CT on drama	The Tempest-Act-V
	Prose: B.Wordsworth
UT-3	Poetry- Dover Beach
The Tempest-Act-V	(Selected portion of Class XI & 1st term)
PRE-BOARD	
The Tempest (Revision whole text), Prose- A Gorilla in the Guest Room,The Sound Machine, Poem: Birches,We are the Music Makers.	
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,Aticle. 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 Gdyanth-2, Muhaware, Vakya Shudh Karo

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	SECOND TERM
UT-2	Sanskriti Kya hai?, Sharnagat, Satti, Badal ko Ghirate dekha hai, Baal leela, Ek fool ki chah
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	
	BIOLOGY
UT-1	FIRST TERM
Reproduction in organisms,Sextual 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 agricultulture,Ecosystem.
UT-3	
Biotechnology(1st term and 2nd term)	
Pre Board Exam Portion	
Portion covered in all Unit Test & all terms, Biodiversity and its Conservation,Genetics and evolution, Microbes and Human Welfare,Origin of Life, Biotechnology,Environmental Issues.	
	BIOLOGY PRACTICAL
	FIRST TERM
	TAXONOMY -Family- MALVACEAE,SOLANACEAE.

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	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.
	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,Computer Hardware-till Universal Gates,Java -Portion covered so far in XI&XII	Portion covered in class XI , and 1st Unit Test of XII,String Tokenizer class, Object as parameter to a function
	Half & Full Adder, Encoder,Decoder,problem solving with Recursive funcion ,File handling, stack, queue
UT-2	SECOND TERM
Boolean Algebra ,Computer Hardware, Java -Portion covered so far, Part of Inheritance	Portion covered in 1 st term, Unit Test 2,Concept of Inheritance,Exception handling,Insertion sorting,
	MultiPlexer
UT-3	Pre Board Exam Portion
Boolean Algebra, Java -Portion covered so far, Tree.	Portion taught till 2 nd Term, Recursive data structure, Binary Tree
	Complexity & Computation.
	MATHEMATICS
UT-1	FIRST TERM

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Relation and Function	Section -A Inverse Trigonometric Function, 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 (straigh line , Basic sums of Plane)
	Section C: Application of calculus in commerce and economics, Linear Regression
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
Electrostatics	Electrostatics,Electricity,Magnetism,Magnetic effect of current
UT-2	SECOND TERM
Project on Electricity/Magnetic effect/Electro-magnetic Induction on AC & Class Test on	Electro-magnetic Induction,Alternating current, Ray Optics,Wave Optics,First term portion
Wave Optics	
UT-3	
Wave Optics and Semi conductors	
Pre Board Exam Portion	
Semi conductors,Gates,Electron,Photon,Atom,Nuclei, Revision Entire Portion	
PHYSICS PRACTICAL	

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	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
	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	Solid state, Alkyl halides, Aryl halides, Alcohols , Phenols & Ether
	Portion covered in UT-I
UT-2	
Chemical kinetics, Alcohols , Phenols & Ether	SECOND TERM
UT-3	Aldehydes and ketones, Electrochemistry, Organic Compounds containing Nitrogen
Carboxylic acid and its derivatives,	Gr.18 Elements and Compounds, Portion covered in UT-II & 1st term,,
Coordination Compounds	
	Pre Board Exam Portion
Polymers, Bio- molecules , Surface chemistry, Transition Elements, Gr.15 Elements and Compounds, Gr.16 Elements and Compounds,	
Gr.17 Elements and Compounds	Isolation of Metals, Chemistry in everyday life, Entire Syllabus covered in all terms
	CHEMISTRY PRACTICAL

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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	
UT-1	FIRST TERM
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 (Production Possibilities Curve and comparison of CRR and SLR of 5 years)	Cost and Revenue, Producers Equilibrium, Theory of Income and Employment, Government
& Class Test on Cost and Revenue	Budget, National Income (Aggregates), Fiscal Policy, Determination of Equilibrium Price
	& Output Under Perfect Competition, Portion covered in first term
UT-3	
Income and Employment	
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 P	Functions of Management & co-ordination, Principles of Management- Planning

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UT-3	Organising , Staffing, Directing, Controlling & principles of management
Marketing Mix	
Pre-Board Exam Portion	
Marketing concepts, functioning, 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	
Pre-Board Exam Portion	
Reports and report writing & various Business Entities	Sources of Business Finance,Globalisation, E-Business ,Outsourcing,Business regulators and 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 , Retirement and death of a partner,Goodwill
UT-2	SECOND TERM
Project & Class Test on partnership & cash flow statement	Issue of shares and debentures,Redemption of Debentures Dissolution of a partnership firm, All Portion of 1st Term
UT-3	
Issue of Shares	
Pre-Board Exam Portion	
Cashflow statements, Accounting Ratio and financial statement analysis,Company Final accounts Portion covered in First term & second term	

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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)
	Visit to Bank/LIC(XII-C)