

**Motilal Nehru Public School**  
**Jamshedpur**  
**Yearly Syllabus (XI A, B, C) : 2021-2022**  
**ENGLISH LITERATURE**

<b>UT-1</b>	<b>FIRST TERM</b>
Class Test based on drama.	The Tempest : Act-I ,Scene-I ,Scene-II(Line no 1 -260),
	Prose:Salvatore,Fritz
	Poetry : The Gift of India,The Dolphins
<b>UT-2</b>	<b>SECOND TERM</b>
Project & Class Test	The Tempest : Act-I ,Scene-II(Line no 261-583,),Act-II Scene -I & First term Portion
	Prose: The Chinese Statue & First term Portion
	Poetry : John Brown & First term Portion
<b>UT-3</b>	<b>FINAL TERM</b>
The Tempest : Act-II	The Tempest : Act-II,Scene-II,Act-III
	Prose: Quality,A Gorilla in the Guest Room,First term & Second Term Portion
	Poetry : Desiderata,The Spider and The Fly ,First term & Second Term Portion
<b>ENGLISH LANGUAGE</b>	
<b>UT-1</b>	<b>FIRST TERM</b>
	Agrumentative Essay & Reflective Essay(2)
	Report Writing : Rules of Report ,Events & Accidents,Comprehension : 2,Proposal writing.
	Grammar : Transformation of sentences, Tenses, Prepositions
<b>UT-2</b>	<b>SECOND TERM</b>
Class Test on grammar,Listening &	Essays-narrative/descriptive + Reflective -2, Report Writing :Events,
Speaking skills	Book Review, Film Review,Cultural Review,Article Writing. Comprehension : 2 ,Grammar :- (All Types)
	Listening & Speaking skills,Proposal writing
<b>UT-3</b>	<b>FINAL TERM</b>
Report,Proposal & Grammer	Essay-All types(Any-2) Report Writing-Articles,Testimonial
	Comprehension,-2 Grammar - All Types(ISC Model Paper)

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**HINDI**

<b>UT-1</b>	<b>FIRST TERM</b>
Sakhi (Kabirdas)	Putra Prem (Premchand), Gouri (Subdha Kumari Chauhan), Sara Aakash(1,2,3)
Gouri (Subdha Kumari Chauhan),	Sakhi (Kabirdas), Ek fool ki chah(Siyaram Sharangupt)
	Nibandh -1, Apathit Gadyansh -1, Muhaware, Vakya Shudh Karo.
<b>UT - 2</b>	<b>SECOND TERM</b>
Project & Class Test on Five samasamyic nibandh	Sharangat (Vrandawanlal Verma), Sati (Shivani), Sara aakash( Rajendra Yadav)- Upnayas(4,5,6,7)
	Baal Leela (Surdas), Aah dharti kitna deti hai
	Nibandh -1, Apathit Gadyansh -1, Muhaware, Vakya Shudh Karo.
<b>UT-3</b>	<b>FINAL TERM</b>
Daasi (Jayshankar Prasad),	Outsider(Malti Joshi), Daasi (Jayshankar Prasad),
Tulsi Das ke Pad (Tulsidas)	Tulsi Das ke Pad (Tulsidas), Nadi ke Dawip (Aghey),
Vyakaran	Sara Aakash (Rajendra Yadav)- Upnayas(8,9,10)
	Nibandh -1, Apathit Gadyansh -1, Muhaware, Vakya Shudh Karo.
	2. Nimnalikhit main se kisi ek par maolik kahani likhen

**COMPUTER \***

<b>UT- 1</b>	<b>FIRST TERM</b>
Data Representation,Revision ch.of std.X	Revision ch.of std.X(Classes in JAVA,Functions(Methods))
(General Oop concepts,Introducing JAVA,JAVA fundamentals,flow on control)	Arrays,Portion covered in UT-1
<b>UT - 2</b>	<b>SECOND TERM</b>
Propositional Logic and Hardware.	Program error types and basic exceptional handling,Using library classes and
	packages.Portion covered till UT-2
<b>UT-3</b>	<b>FINAL TERM</b>
Trends in computing ethics	Operations on Files,Entire Syllabus

**ECONOMICS**

<b>UT-1</b>	<b>FIRST TERM</b>
Definition of Economics,	Definition of Economics,Basic Economic Concepts,Basic Problems of an Economy,

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Basic Economic Concepts	Meaning, scope, limitations and Importance of Statistics Collection, Organisation and Presentation of Data,
<b>UT -2</b>	<b>SECOND TERM</b>
Project on Economic Growth and Developmen & Class Test	Types of Economics Solution to the Basic Economics Problems Economic Growth and Development, Profile of Indian agriculture / Rural development ,Measure of Dispersion, Parameters (Indicator) of Development,sustainable development in India, Measure of Central value Human Capital Formation (Everything covered in 1st term.)
<b>UT-3</b>	<b>FINAL TERM</b>
Problems of Poverty in India, Economic Planning and Economic Development in India	Economic Planning and Economic Development in India,Comparitive study Indian and chinese economies, Structural changes in Indian,State of Indian Economy on the eve of Independence Economy after Liberalisation Problems of Poverty in India Employment and Unemployment Co-relation,Index numbers, Mathematical tools used in economics. (Entire syllabus)
<b>COMMERCE</b>	
<b>UT-1</b>	<b>FIRST TERM</b>
Economic , Non Economic Activities & Nature and objectives of Business	Classification of Business Activities,Nature and objectives of Business,Introduction to business org., Sole Trader,Partnership, Economic & Non Economic activities
<b>UT-2</b>	<b>SECOND TERM</b>
Life Insurance & Medical Insurance (Project))	Joint Stock Company, Types of Companies, formation of a companies, Cooperative organisations, Stock Exchange, Wholesale Trade Social responsibilities of business & ethics, E-business & outsourcing,
<b>UT-3</b>	<b>FINAL TERM</b>
Retail trade,Nature and scope of Foreigntrade	Retail trade, Nature and scope of Foreigntrade, trade, Export trade.Import Trade, Business risks and Insurance. Types of Insurances (fire,marine & life Insurance),Public enterprises & Pulic utilities. WTO, Procedure & documents in home trade

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**BIOLOGY**

UT-1	FIRST TERM
Taxonomy, 5 kingdom classification, kingdom protista, monera, fungi	The Living World, Taxonomy, 5 kingdom classification, kingdom protista, monera, fungi, Morphology of flowering plant, modification of roots, stem and leaf, cell, plant physiology, transport in plants, Mineral nutrition, human physiology, digestion & Absorption
UT-2	SECOND TERM
Projects and Class Test	Plant Kingdom, Morphology of flower, fruit and seed, plant tissue, secondary growth, Structural organization in animals, Animal Tissues, cell structure and function, biomolecules, photosynthesis, breathing and exchange of gases, Body fluids & circulation
UT-3	FINAL TERM
Morphology and anatomy of Cockroach, Animal Kingdom	Morphology and anatomy of Cockroach, Animal Kingdom, Cell cycle and cell division, Nervous system, Locomotion, respiration in plants, plant growth and development, excretion, Chemical co-ordination
	Portion of 1st term and second term.

**BIOLOGY PRACTICAL**

UT-1	FIRST TERM
	Study parts of dissecting microscope, compound microscope.
	Physiology- Food test , Effect of heat and alcohol on cell permeability.
	potato osmoscope, plasmolysis.
	Morphology- study of modification of root , stem and leaves.
	Cytology- preparation of temporary slides of onion peel
	T.S Monocot & Dicot stem .
	Spotting -Identification of stained preparation/museum specimen
UT-2	SECOND TERM
	Physiology-Expt on Photosynthesis with different carbon dioxide conc.
	Cytology-stages of mitosis in onion root tips, Slide preparation-T.S of Dicot and monocot root.
	Spotting -Identification of stained preparation, museum specimen and project.
UT-3	FINAL TERM

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	Physiology-Separation of plant pigments from leaves by chromatography.
	Slide Preparation-Temporary slide preparation of Mucor/Rhizopus.
	Cytology -Revision of T.S Dicot stem,root,Monocot stem ,root
	Spotting-Identification of stained preparation /museum specimen.
	Comment on Experimental set up - Osmosis,Transpiration,Photosynthesis transpirational pull.
	All practical classes will be held on the availability of the material.

**ACCOUNTS**

<b>UT-1</b>	<b>FIRST TERM</b>
Journal & Introduction to accounting	Introduction to accounting, Journal and ledger,Accountng equation
	Trial Balance,Cash Book,
<b>UT-2</b>	<b>SECOND TERM</b>
Project Work & Class Test on Depreciation	Depreciation, Bills of Exchange, Bank reconciliation
	Portion covered in 1st term
<b>UT-3</b>	<b>FINAL TERM</b>
Final account without adjustment	Final account with & without adjustment, Rectification of errors, Theory of capital and revenue
	Accounting concept
	Entire year portion

**CHEMISTRY**

<b>UT-1</b>	<b>FIRST TERM</b>
Basic Concept of Chemistry	Atomic Structure,Chemical Bonding
	Portion covered in UT1
<b>UT-2</b>	<b>SECOND TERM</b>
Unit Test on States of Matter	Periodic table, & isomerism,IUPAC Nomenclature of organic compounds
IUPAC Nomenclature of organic compounds	Chemical Equilibrium,Ionic Equilibrium,Portion covered in UT1,UTII & 1st Term,
<b>UT-3</b>	<b>FINAL TERM</b>

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Hydrocarbons & Aromatic Hydrocarbons	Thermodynamics and Thermochemistry, Hydrogen, Gr I & Gr II, Gr. XIII & Gr. XIV, Environmental chemistry
	Types of Organic reaction, Portion covered in UT I, UT II, UT III, 1st term, 2nd term
	<b>CHEMISTRY PRACTICAL</b>
	1st Term -
	Defination details (Titration), Acidimetry, Alkalimetry,
	Salt analysis - Detection of Anions (Dry test & wet test)
	2nd Term -
	Salt analysis - Detection of Cations (group 0, group I, group III)
	Titration : Determine the percentage purity
	Portion covered in 1st term (Revision)
	3rd Term -
	Salt analysis - Detection of Cations (group V, group VI, group II, group IV)
	Titration : Determine the number of water molecules
	Portion covered in 1st term & 2nd term (Revision)
	Entire Syllabus
	Note: Practical classes will be held according to the availability of chemicals.
<b>PHYSICS</b>	
<b>UT-1</b>	<b>FIRST TERM</b>
Units/Dimensions and Vector	<b>Physical World and Measurements:</b> Physical World, Units and Measurement,
	<b>Kinematics:</b> Motion in a straight line, Scalar and Vectors quantities, Relative velocity and Projectiles
	<b>Laws of motion:</b> Newton's laws of motion, Impulse, Laws of conservation of momentum ,
	friction . connected body diagrams . Dynamics of circular motion.
	<b>Work ,power and energy :</b> Work done by a constant force and a variable force, kinetic energy ,work-energy
	theorem, power . Potential energy of a spring , conservative and non-conservative forces ; concept of
	collision :elastic and inelastic collisions in one or two dimensions .
<b>UT-2</b>	<b>SECOND TERM</b>

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Project & Class Test on	Motion of system of particles and rigid body :Idea of centre of mass , Moment of a force
Moment of inertia and Gravitation	, Equilibrium of rigid bodies , Moment of inertia .
	<b>Gravitation</b> : Kepler's laws of planetary motion , universal law of gravitation ,
	Acceleration due to gravity , and its variation with altitude ,latitude and depth .
	Gravitational potential and intensity , escape velocity satellites .
	<b>Properties of bulk matter</b> :Elasticity ; Viscosity and Surface tension .
<b>UT-3</b>	<b>FINAL TERM</b>
Thermodynamics	<b>Heat and Thermodynamics</b> :Thermal properties of matter and thermodynamics .
	<b>Behaviour of perfect gases and kinetic theory of gases</b> :Kinetic theory of gases ,
	interpretation of temperature , law of equipartition of energy , degree of freedom .
	<b>10) Oscillation and waves</b> :Simple harmonic motion, oscillations of springs , Kinetic and
	potential energy , free , forced and damped oscillations , resonance.
	Wave motion , Transverse and longitudinal waves , speed of wave motion ,displacement
	relation for a progressive wave , principle of superposition of waves , reflection of waves ,
	standing waves in strings and organ pipes ,fundamental mode and harmonics ,Beats ,
	Doppler effect.
<b>PHYSICS PRACTICAL</b>	
	<b>FIRST TERM</b>
	(1) Comparison of volume of solid sphere using vernier calipers and graduated cylinder upto 3
	significant figures,(2) To determine the diameter of thin rod or wire using micrometer screw guage
	(% error in cross section),(3) To find the radius of curvature of a spherical surface(like watch glass)
	with the help of spherometer
	<b>SECOND TERM</b>
	(1)Equilibrium of three concurrent coplaner forces to verify the parallelogram law of forces and
	determine the wt.of the body.
	(2) To study the relationship with angles of inclination by plotting graphs between force & Sin $\Theta$ (using
	inclined plane.To study the relationship between force of limiting friction and normal reaction.
	To determine the coefficient of friction.portion covered in the 1st term exam.
	(3)Simple pendulum. Plot graph of T vs $\sqrt{l}$ and $T^2$ Vs L. Determine effective length of the seconds pendulum using
	$T^2$ Vs L graph.

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	<b>FINAL TERM</b>
	(1) Testing of Resonance with the help of resonance of air column and to find the velocity of sound in air medium
	(2) To determine the frequency of tuning fork using a sonometer.
	Portion covered in 1st and 2nd terms.
	Project Work : Mechanical properties of fluids.
<b>MATHEMATICS</b>	
<b>UT-1</b>	<b>FIRST TERM</b>
Trigonometry	SECTION –A: Sets, Relation and function , Complex numbers, Principle of mathematical induction.
	Limits and Derivatives, Sequence & Series, Trigonometry
	SECTION-B : Introduction of 3- Dimension
	SECTION - C : Statistics
<b>UT-2</b>	<b>SECOND TERM</b>
Special Series, Permutation & Combination	SECTION –A: Coordinate Geometry ( Straight line and Circle ), Limit and Derivatives.
	Trigonometry ,Portion covered in UTII
	SECTION –B: Introduction to 3D , Mathematical Reasoning
	SECTION –C: Statistics, Index Number and Moving Average.
<b>UT-3</b>	<b>FINAL TERM</b>
Binomial Theorem and P.M.I	SECTION –A: Quadratic Equation, Linear inequality , Binomial Theorem, Statistics and Probability.
	SECTION –B : Conic Section
	SECTION –C : Correlation Analysis.
	( whole syllabus for final term)
<b>ETHICS</b>	
	<b>FIRST TERM</b>
	Know Yourself, Value of the Month
	<b>SECOND TERM</b>
	Spirit of Positivity, Value of the Month
	<b>FINAL TERM</b>

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	Successful People as Role Models, Value of the Month
	<b>S.U.P.W.</b>
	Social Service to Needy(Collection of old clothes, medicines and other materials and packed in a form of gift)
	Minimum three items to be brought by each student.)
	<b>FINAL TERM</b>
	Visit a Slum Area