

Motilal Nehru Public School

Jamshedpur

Yearly Syllabus: 2019-2020

XI A,B,C

*ENGLISH LITERATURE	
UT-1	FIRST TERM
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
UT-2	SECOND TERM
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
UT-3	FINAL TERM
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
*ENGLISH LANGUAGE	
UT-1	FIRST TERM
	Agrumentative Essay & Reflective Essay(2)
	Report Writing : Rules of Report ,Events & Accidents,Comprehension : 2,Proposal writing.
	Grammar : Transformation of sentences, Tenses, Prepositions
UT-2	SECOND TERM
Class Test on grammar,Listening & Speaking skills	Essays-narrative/descriptive + Reflective -2, Report Writing :Events,
	Book Review, Film Review,Cultural Review,Article Writing. Comprehension : 2 ,Grammar :- (All Types)
	Listening & Speaking skills,Proposal writing
UT-3	FINAL TERM
Report,Proposal & Grammer	Essay-All types(Any-2) Report Writing-Articles,Testimonial
	Comprehension,-2 Grammar - All Types(ISC Model Paper)
*HINDI	
UT-1	FIRST TERM
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)

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	Nibandh -1, Apathit Gadyansh -1, Muhaware, Vakya Shudh Karo.
UT - 2	SECOND TERM
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.
UT-3	FINAL TERM
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	
UT- 1	FIRST TERM
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
UT - 2	SECOND TERM
Propositional Logic and Hardware.	Program error types and basic exceptional handling,Using library classes and
	packages.Portion covered till UT-2
UT-3	FINAL TERM
Trends in computing ethics	Operations on Files,Entire Syllabus
*ECONOMICS	
UT-1	FIRST TERM
Definition of Economics,	Definition of Economics,Basic Economic Concepts,Basic Problems of an Economy,
Basic Economic Concepts	Meaning, scope, limitations and Importance of Statistics Collection,
	Organisation and Presentation of Data,
UT -2	SECOND TERM
Project on Economic Growth and Developmen	Types of Economics Solution to the Basic Economics Problems
& Class Test	Economic Growth and Development, Profile of Indian agriculture / Rural development ,Measure of Dispersion,

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	Parameters (Indicator) of Development,sustainable development in India, Measure of Central value
	Human Capital Formation (Everything covered in 1st term.)
UT-3	FINAL TERM
Problems of Poverty 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
Economic Planning and Economic Development in India	Economy after Liberalisation Problems of Poverty in India Employment and Unemployment
	Co-relation,Index numbers, Mathematical tools used in economics. (Entire syllabus)
*COMMERCE	
UT-1	FIRST TERM
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
UT-2	SECOND TERM
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,
	Public enterprises & Pulic utilities.
UT-3	FINAL TERM
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)
	WTO, Procedure & documents in home trade
*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 issue, secondary growth,Structural organization in animals,Animal Tissues, cell structure and function, biomolecules, photosynthesis, breathing and
	exchange of gases,Body fluids & circulation

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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.
	Phisology- Food test , Effect of heat and alcohol on cell permeability.
	potato osmoscope,plasmolysis.
	Morphology- study of modification of root ,stem and leaves.
	Cytology- preparationof 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 mitosisin onion root tips,Slide preparation-T.S of Dicot and monocot root.
	Spotting -Identification of stained prparation,museum specimen and project.
UT-3	FINAL TERM
	Physiology-Separation of plant pigments from leaves by chromatography.
	Slide Preparaion-Temporary slide preparationof 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	
UT-1	FIRST TERM
Journal & Introduction to accounting	Introduction to accounting, Journal and ledger,Accountng equation

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	Trial Balance,Cash Book,
UT-2	SECOND TERM
Project Work & Class Test on Depreciation	Depreciation,Rectification of Errors, Bills of Exchange, Bank reconciliation,Theory of capital & revenue
	Portion covered in 1st term
UT-3	FINAL TERM
Final account with & without adjustment	Accounting for Incomplete records,Non -trading organisation,Final account with & without adjustment,
	Accounting concept
	Entire year portion
*CHEMISTRY	
UT-1	FIRST TERM
Basic Concept of Chemistry	Atomic Structure,Chemical Bonding
	Portion covered in UT1
UT-2	SECOND TERM
Project & Class 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,
UT-3	FINAL TERM
Hydrocarbons & Aromatic Hydrocarbons	Thermodynamics and Thermochemistry,Hydrogen,Gr I & Gr II,Gr.XIII & Gr.XIV,Environmental chemistry
	Types of Organic reaction ,Portion covered in UT1,UTII,UTIII,1st term,2nd term
*CHEMISTRY PRACTICAL	
	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,V)
	Titration : Determine the percentage purity
	Portion covered in 1st term (Revision)
	3rd Term -

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	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)
	Note: Practical classes will be held according to the availability of chemicals.
*PHYSICS	
UT-1	FIRST TERM
Units/Dimensions and Vector	Physical World and Measurements: Physical World,Units and Measurement,
	Kinematics: Motion in a straight line,Scalar and Vectors quantities,Relative velocity and Projectiles
	Laws of motion: Newton's laws of motion,Impulse,Laws of conservation of momentum ,
	friction . connected body diagrams .Dynamics of circular motion.
	Work ,power and energy : Work done by a constant force and a variable force,kinetic enrgy ,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 .
UT-2	SECOND TERM
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 .
	Gravitation : 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 .
	Properties of bulk matter : Elasticity ; Viscosity and Surface tension .
UT-3	FINAL TERM
Thermodynamics	Heat and Thermodynamics : Thermal properties of matter and thermodynamics .
	Behaviour of perfect gases and kinetic theory of gases : Kinetic theory of gases ,
	interpretation of temperature , law of equipartition of energy , degree of freedom .
	10) Oscillation and waves : 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.

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*PHYSICS PRACTICAL

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FIRST TERM	
	(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 gauge (% error in cross section),(3) To find the radius of curvature of a spherical surface(like watch glass) with the help of spherometer
SECOND TERM	
	(1)Equilibrium of three concurrent coplanar 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.
FINAL TERM	
	(1) Deduce Newton's law of cooling . Using Cooling curve. Find the slope of the curve at four different temperatures of the hot body.
	(2) To determine the frequency of tuning fork using a sonometer.
	Portion covered in 1st and 2nd terms.
	Project Work : Mechanical properties of fluids.

*MATHEMATICS

UT-1	FIRST TERM
Trigonometry	SECTION –A: Sets,Relation and function , Complex numbers, Principle of mathematical induction.
	Limits and Derivatives, Sequence& Series(Except spl.Series),Portion covered in UT1
	SECTION-B : Introduction of 3- Dimension
	SECTION - C : Statistics
UT-2	SECOND TERM
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

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SECTION –C: Statistics, Index Number and Moving Average.

UT-3

FINAL TERM

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)

***ETHICS**

FIRST TERM

Know Yourself, Value of the Month

SECOND TERM

Spirit of Positivity, Value of the Month

FINAL TERM

Successful People as Role Models, Value of the Month

***S.U.P.W.**

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.)

FINAL TERM

Visit a Slum Area