

Motilal Nehru Public School
Jamshedpur
Yearly Syllabus: 2016- 2017
XI A,B,C

ENGLISH LITERATURE *	
UT-1	FIRST TERM
	The Tempest : (Act-I)
	Prose:Salvatore,Fritz
	Poetry : The Darkling Thrush,The Dolphins
UT-2	SECOND TERM
CT on drama	The Tempest : (Act-II)
	Prose: Quality,To Build a Fire
	Poetry : The Gift of India,Crossing the Bar,
UT-3	FINAL TERM
The Tempest : (Act-II)	The Tempest : (Act-III)
	Prose: The Story of an Hour,The Chinese Statue
	Poetry : Desiderata,The Spider and The Fly (Portion of 1st term and 2nd term to be added.)
ENGLISH LANGUAGE*	
UT-1	FIRST TERM
	Argumentative Essay & Reflective Essay(2)
	Report Writing : Rules of Report ,Events & Accidents,Comprehension : 2,
	Grammar : Transformation of sentences, Tenses, Prepositions
UT-2	SECOND TERM
CT on grammar	Essays-narrative/descriptive + Reflective -2, Report Writing :Events,
	Book Review, Film Review,Article Writing. Comprehension : 2 ,Grammar :- (All Types)
	Listening & Speaking skills
UT-3	FINAL TERM
Listening & Speaking skills	Essay-All types(Any-2) Report Writing-Events, F.I.R, Interview
	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)
	Nibandh -1, Apathit Gadhyanash -1, Muhaware, Vakya Shudh Karo.
UT - 2	SECOND TERM
Project & CT 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 Gadhyanash -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 Gadhyanash -1, Muhaware, Vakya Shudh Karo.
	2. Nimalikhit main se kisi ek par maolik kahani likhen

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*COMPUTER	
UT- 1	FIRST TERM
	Number System, Computer Structure
Number System, Program in Java(Array Single Dimension)	.Functions, Flow of control, Arrays(Single Dimension) ,String
UT - 2	SECOND TERM
Logic gates ,Program with ARRAYS(Single and Double dimension),String	Portion taught in 1st Term, Propositional Logic, Logic gates (Half and Full Adder), ARRAY Double dimension, program on string handling,Object and class along with constructor
	Internal Functioning of computer, System and other Software,
UT-3	FINAL TERM
Program in Java (String and array),Object as parameter and class as return type.	Portion taught till 2 nd Term,memory, More on String, Computing and ethics, Data Structure (STACK, QUEUE) , File Handling , Object Passing as Parameter.
*ECONOMICS	
UT-1	FIRST TERM
Definition of Economics,Basic Economic Concepts	Definition of Economics,Basic Economic Concepts,Basic Problems of an Economy,
	Meaning, scope, limitations and Importance of Statistics Collection,
	Organisation and Presentation of Data,
	Measure of Central value,State of Indian Economy on the Eve of Independence
UT - 2	SECOND TERM
Project	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,
	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
	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	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	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

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***Business Studies**

UT-1	FIRST TERM
Office-Meaning,Role,,Significance	Office-Meaning,Role,,Significance.Office Management, Office Systems and Routines, Office Accomodation,location and layout, Office Evironment, Office Computers
UT-2	SECOND TERM
Office Organization	Office Organization,Departmentlisation,Delegation of Authority,Centralisation and Decentralisation, Office Manuals Management of Office Records
UT-3	FINAL TERM
Filing,Indexing	Filing,Indexing,Microcopying,Electronic Filing, Office reprography,Printing and Typing, Office Mechanisation and Automation ,Office Machines and Equipments

***BIOLOGY**

UT-1	FIRST TERM
Taxonomy, 5 kingdom classification, kingdom protista, monera, fungi	Morphology of flowering plant, modification of roots, stem and leaf, cell, plant physiology, tranport in plants Mineral nutrition, human physiology, digestion, Taxonomy, 5 kingdom classification, kingdom protista, monera, fungi
UT-2	SECOND TERM
Projects and Models	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 on 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

*** BIOLOGY PRACTICAL**

UT-1	FIRST TERM
	Study parts of dissecting microscope, compoundin microscope. Phisology - Food test , Effect of heat and alcohol on cell permeability . potato osmoscope,plasmolysis. Morphology - study of modification of root ,stem leaves. Cytology - preparationof temporary slides ofonion peel T.S Monocot &Dicot stem . Spotting -Identification of stained
UT-2	SECOND TERM
	Physiology -Expt on Photosynthesiswith 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.
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. Commenton Experimental set up - Osmosis,Transpiration,Photosynthesis Transpirational pull. All practical classes will be held on the availability of the material.

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*ACCOUNTS	
UT-1	FIRST TERM
Journal	Introduction to accounting, Journal and ledger,
	Trial Balance,Cash Book,,Subsidiary Books, Bank Reconciliation statement.
UT-2	SECOND TERM
Project Work & CT on Depreciation	Depreciation,Rectification of Errors,), Bills of Exchange
	Portion covered in 1st term
UT-3	FINAL TREM
Final accounts	Accounting for Incomplete records,Non -trading organisation,Final account with & without adjustment,
	Accounting concept
	Entire year portion
*CHEMISTRY	
UT-1	FIRST TERM
Mole Concept , Atomic Structure	IUPAC Nomenclature of organic compounds, Purificationand detection of Elements,Periodic Table ,Chemical Bonding
Nomenclature of organic compound , parts of atomic molecules	Portion covered in UTI
UT-2	SECOND TERM
States of Matter,Types of Organic reaction and mechanism	Thermodynamics and Thermochemistry,Hydrogen,Gr I & Gr II,Chemical Equilibrium
	Portion covered in UTI,UTII & 1st Term
UT-3	FINAL TERM
Hydrocarbons	Portion covered in UTI,UTII,UTIII,1st term,2nd term
*CHEMISTRY PRACTICAL	
	1st Term -
	Defination details (Titration), Acidimetry, Alkalimetry,
	Salt analysis - Detection of Anions (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)
	Note: Practical classes will be held according to the availability of chemicals.

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*PHYSICS	
UT-1	FIRST TERM
Units/Dimensions and Vector	Units/ Dimensions,Vector,Friction,Motion in one and two dimensions
	Newton's Law of Motion
UT-2	SECOND TERM
Project on Elasticity and CT on Kinetic theory of gas	Rotational Motion,Gravitation,Fluids,Properties of Matter
	Elasticity,Surface Tension,Kinetic theory of gas(Heat), First term portion
UT-3	FINAL TERM
	Kinetic theory ,Calorimetry,1st Law, Different Process,2nd law,
	Heat engine,Conduction,Radiation,Simple harmonic motion, Waves
1st Law , Surface Tension	Entire Syllabus
*PHYSICS PRACTICAL	
	FIRST TERM
	(1) To determine the external diameter of an iron bob or height of the cylindrical pipe with the help of vernier callipers. (2) To determine the length of thin rod with the help of screw guage.
	(3) To find the radius of curvature of a spherical mirror (watch glass) with the help of spherometer
	(4) To study the properties of an inclined plane.
	SECOND TERM
	(5) To determine the acceleration due to gravity (g) with the help of simple pendulum.
	(6) To verify the parallelogram laws of forces.
	portion covered in the 1st term exam.
	FINAL TERM
	(7) To study the length of a sonometer wire with the help of sanometer box.
	(8) To determine the velocity of sound with help of resonance of air column
	Portion covered in 1st and 2nd terms.
*MATHEMATICS	
UT-1	FIRST TERM
Trigonometry	SECTION –A Sets, Trigonometry (Compound Angle, Multiple Angle, Sub-multiple Angle and general Solutions of trigonometric equations), Complex numbers, Mathematical Induction and Progression (A.P. and G.P. with series).
	SECTION –B Introduction to 3-dimensional geometry.
	SECTION –C Combined mean and standard deviation, Median,Quartile,Decile, Percentile and Mode of grouped and ungrouped data
UT-2	SECOND TERM
Limits and Differentiation	SECTION –A Permutation and Combination, Relation and Function, Limit and Differentiation , Co-ordinate Geometry (Straight Line & circle).
	SECTION –B Same as First Term.
	SECTION –C Index Number and Moving Average.

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UT-3	FINAL TERM
Mathematical Induction and Straight Line	SECTION –A Quadratic Equation, Binomial Theorem, Statistics and Probability.
	SECTION –B Conic Section (Parabola, Ellipse & Hyperbola) Condition of Second degree general Equation and condition of tangency.
	SECTION –C Correlation Analysis.
	*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.
	FIRST TERM
	Newspaper 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 to be brought by each student.)
	FINAL TERM
	Visit a Slum Area