

Motilal Nehru Public School

Jamshedpur

Yearly Syllabus: 2018- 2019

XI A,B,C

| ENGLISH LITERATURE | |
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| UT-1 | FIRST TERM |
| The Tempest : Act-I | 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 |
| Class Test on drama | The Tempest : Act-II Scene -(261-583),Act-I,Scene -I Prose: The Chinese Statue Poetry : John Brown |
| UT-3 | FINAL TERM |
| The Tempest : Act-II | The Tempest : Act-II,Scene-II,Act-III Prose: Quality,A Gorilla in the Guest Room Poetry : Desiderata,The Spider and The Fly (Portion of 1st term and 2nd term to be added.) |
| 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) Gouri (Subdha Kumari Chauhan), | Putra Prem (Premchand), Gouri (Subdha Kumari Chauhan), Sara Aakash(1,2,3) Sakhi (Kabirdas), Ek fool ki chah(Siyaram Sharangupt) |

Motilal Nehru Public School

Jamshedpur

Yearly Syllabus: 2018- 2019

XI A,B,C

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| | Nibandh -1, Apathit Gadhyansh -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 Gadhyansh -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 Gadhyansh -1, Muhaware, Vakya Shudh Karo. |
| | 2. Nimnalikhit main se kisi ek par maolik kahani likhen |
| COMPUTER | |
| UT- 1 | FIRST TERM |
| Number System, Class programs in Java (Array Single Dimension) | Number System, Computer Structure . Functions, Flow of control, Arrays(Single and Double 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),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) , Operation on files , 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, |
| | |
| UT -2 | SECOND TERM |
| Project & Class Test | Types of Economics Solution to the Basic Economics Problems |
| | Economic Growth and Development, Profile of Indian agriculture / Rural development ,Measure of Dispersion, |

Motilal Nehru Public School

Jamshedpur

Yearly Syllabus: 2018- 2019

XI A,B,C

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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 |
| | 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 | 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 |
| | |
| Business Studies | |
| UT-1 | FIRST TERM |
| Entrepreneurship | Business Environment,Swot Analysis,Entrepreneurship,Start up business,Business risk and causes of failure |
| UT-2 | SECOND TERM |
| Project & Class Test Productivity enhancement tools and facilities | Manager and managerial roles,Authority ,Responsibility,Accountability.Delegation of authority, Cetralisation and Decentralisation,Business risk and causes of failure |
| UT-3 | FINAL TERM |
| Change Management | Automation at work place,Productivity enhancement tools and facilities,Change management. |

Motilal Nehru Public School

Jamshedpur

Yearly Syllabus: 2018- 2019

XI A,B,C

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| | Including first and second term portion |
| 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, |
| 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 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, 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 |

Motilal Nehru Public School

Jamshedpur

Yearly Syllabus: 2018- 2019

XI A,B,C

| | |
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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. |
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| ACCOUNTS | |
| UT-1 | FIRST TERM |
| Journal, | Introduction to accounting, Journal and ledger,Accounting equation |
| | 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 accounts | 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 UT I |
| UT-2 | SECOND TERM |
| Project & Class Test on States of Matter | IUPAC Nomenclature of organic compounds,Types of Organic reaction & mechanism & isomerism,I, |
| | Chemical Equilibrium,Ionic Equilibrium,Portion covered in UT I,UT II & 1st Term, |
| UT-3 | FINAL TERM |
| Hydrocarbons & Aromatic Hydrocarbons | Thermodynamics and Thermochemistry,Hydrogen,Gr I & Gr II,Gr.XIII & Gr.XIV |
| | Portion covered in UT I,UT II,UT III,1st term,2nd term |
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Motilal Nehru Public School

Jamshedpur

Yearly Syllabus: 2018- 2019

XI A,B,C

| CHEMISTRY PRACTICAL | |
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| | 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) |
| | |
| | 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,Work,Power energy |
| UT-2 | SECOND TERM |
| Project on Elasticity/Surface Tension/Fluids. | Rotational Motion,Gravitation,Fluids,Properties of Matter |
| Class Test on Kinetic theory of gas | Elasticity,Surface Tension,Kinetic theory of gas(Heat), First term portion |
| UT-3 | FINAL TERM |
| 1st Law , Surface Tension | Kinetic theory ,Calorimetry,1st Law, Different Process,2nd law, |
| | Heat engine,Conduction,Radiation,Simple harmonic motion, Waves |
| | Entire Syllabus |
| PHYSICS PRACTICAL | |
| | 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 guage |

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Jamshedpur

Yearly Syllabus: 2018- 2019

XI A,B,C

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| | (% 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 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 Θ (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 tempratures 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, 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 |
| | 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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XI A,B,C

| UT-3 | FINAL TERM |
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| 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. |
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| 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 |