

Motilal Nehru Public School
Jamshedpur

Yearly Syllabus: 2016- 2017
XII A,B,C

*ENGLISH LITERATURE	
UT-1	FIRST TERM
Arms & the Man(Act-II)	Arms & the Man-Act-III(Pg.52-65) and Act-I & II Prose - The Stolen Bacillus (Selected portion of Class XI) Poetry - Five Ways to Kill A Man (Selected portion of Class XI)
UT-2	SECOND TERM
CT on drama	Arms & the Man-Act-III(Pg.66-79) and Act-I,II,III Prose: Old Love, A very old man with Enormous Wings
UT-3	Poetry- Phenomenal Women, Breaking Out
Drama-ACT -III(whole)	(Selected portion of Class XI & 1st term)
PRE-BOARD	
Arms & the Man Act-I,II,III. Prose- The Legend of Sleepy Hollow, Poem: Father Returning Home	
Whole portion of class XI & XII	
*ENGLISH LANGUAGE	
UT-1	FIRST TERM
Speaking & Listening skills	Essay-Narrative , Reflective ,Argumentative(1 each), Report writing- Testimonial, Speech. Grammar- All types as per ISC syllabus. Comprehension
UT-2	SECOND TERM
CT on grammar	Essay-Descriptive ,Argumentative(1 each), Report writing-Bio-data,SOP
UT-3	Grammar - All types as per ISC syllabus,Comprehension,
Listening & Speaking skills	
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 jana hai, muhaware,Vakya Shudh Karo	Kya Nirash hua jaye, Jaag tujhko door jana hai, Bhakteen, Putra Prem, Sakhi Udyami Nar,Sara Aakash(1-5) Nibandh - 2, Apathit Gdyansh-2, Muhaware, Vakya Shudh Karo
UT-2	SECOND TERM
Project & CT on Five samasamyc nibandh	Sanskriti Kya hai?, Shamagat, Satti, Badal ko Ghirate dekha hai, Baal leela, Ek fool ki chah 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	

Motilal Nehru Public School
Jamshedpur

Yearly Syllabus: 2016- 2017
XII A,B,C

	*BIOLOGY
UT-1	FIRST TERM
Reproduction in organisms,Sexual reproduction in flowering plants	Reproduction in organisms,Sexual reproduction in flowering plants
	Genetics-Principles of inheritance and variation ,Human Health and Diseases,Biotechnology-Principles and processes,Ecology - Organism and Populations,
UT-2	SECOND TERM
Project Work and CT(Human reproduction and Reproductive Health)	Human reproduction and Reproductive Health,Genetics - Molecular Basis of Inheritance
	Strategies for Enhancement in Food Production,Applications of Biotechnology in Health and agriculture,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.
	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 Pollinated by Different Agency, T.S of Ovary of any local Flower
	Showing type of Placentation, T.S of ovary, testis of Mammal.
	SECOND TERM
	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.

Motilal Nehru Public School
Jamshedpur

Yearly Syllabus: 2016- 2017
XII A,B,C

*COMPUTER	
UT-1	FIRST TERM
Boolean Algebra, Computer Hardware-till Universal Gates, K-map, 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, problemsolving 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
Determinant, Matrices	Section -A Determinant: Expansion of 2nd & 3rd order Determinant, properties of determinant and expansion of determinant by using properties of determinants, Cramer's rule, consistency & inconsistency of system of linear equations. Matrices : Addition, subtraction, scalar multiplication and multiplication of two matrices .Inverse of a matrix. Martin's rule, Consistency & inconsistency. Inverse trigonometric functions (properties and its application), Differential Calculus (Differentiation of Function of function, implicit parametric equn., Function w.r.t. another fn. & 2nd order derivative, L'Hospital's rule) Integration (Indefinite and Definite integration including properties of definite integration) Section B-Vector (Dot and cross product), 3-D geometry (Straight line) Section C- Application of derivatives ,in commerce & eco. .Linear programming
UT-2	SECOND TERM
Differentiation, Integration, Rolle's and Lagrange's theorem.	Section A- Conics (parabola, Ellipse, Hyperbola, condition of second degree to represent a conic), Rolle's theorem and Lagrange's M.V.T Probability (up to conditional probability). Plane Area by Integration Section B- Vector (Scalar triple product), 3-D Geometry (plane) Section C- Index number & moving averages & discount
UT-3	
Conics , Probability, Boolean Algebra Max. or Min.	
Pre Board Exam Portion	
Section A- Boolean Algebra , max. or min. Correlation and regression, Complex number, Differential equation.	
Section B- Probability (Baye's Theorem, Probability distribution and Binomial distribution)	
Section C- Annuities portion of the first and second terms of every section.	

Motilal Nehru Public School
Jamshedpur

Yearly Syllabus: 2016- 2017
XII A,B,C

*PHYSICS	
UT-1	FIRST TERM
Electrostatics	Electrostatics,Electricity,Magnetism,
UT-2	Magnetic effect of current
Project on Ray Optics & CT on Wave Optics	SECOND TERM
UT-3	Electro-magnetic Induction,Alternating current, Ray Optics,Wave Optics,First term portion
Wave Optics and Semi conductors	
Pre Board Exam Portion	
Semi conductors,Gates,Electron,Photon,Atom,Nuclei,Revision Entire Portion	
*PHYSICS PRACTICAL	
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
Chemical kinetics,Alcohols and Phenols	Gr.15 Elements and Compounds,Gr.16 Elements and Compounds,Solutions,
	Portion covered in UT-I
UT-2	
Aldehydes and ketones, Electrochemistry	SECOND TERM
	Portion covered in UT-II & 1st term,Alkyl halides,Aryl halides, Gr.17 Elements and Compounds,
UT-3	Gr. 18 Elements and Compounds,
Carboxylic acid and its derivatives,Solid states	
Pre Board Exam Portion	
Organic Compounds containing Nitrogen,Polymers,Bio- molecules ,Coordination Compounds,Surface chemistry,Transition Elements	
Entire Syllabus covered in all terms	

Motilal Nehru Public School
Jamshedpur

Yearly Syllabus: 2016-2017
XII A,B,C

*CHEMISTRY PRACTICAL	
	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, Elasticity of Demand, Supply, Market Mechanism, Laws of Returns, Forms of market, Theory of Consumer Behaviour, Money Banks, Fiscal Policy
UT-2	SECOND TERM
Project & CT on production possibilities curve and comparison of CRR and SLR of 5 years.	Cost and Revenue, Producers Equilibrium, Theory of Income and Employment, Government Budget, Portion covered in first term National Income (Measures), Fiscal Policy
UT-3	
Cost and Revenue	
Pre-Board Exam Portion	
	National Income, Balance of payment and exchange rate, Entire Syllabus covered in all terms
*COMMERCE	
UT-1	FIRST TERM
Capital-fixed & working	Portion covered in 1st Unit Test, Business environment, Sources of finance for joint stock co. Banking-Latest trends, Management
UT-2	SECOND TERM
Project & CT on Function of Commercial Banks	Meaning nature & importance
UT-3	SECOND TERM
Marketing Mix	Functions of Management & co-ordination, Principles of Management- Planning, Organising, Staffing, Directing, Controlling & principles of management
Pre-Board Exam Portion	
	Marketing concepts, functioning, Marketing mix & consumer protection and portion covered in 1st & 2nd term
*BUSINESS STUDIES	
UT-1	FIRST TERM
Personnel Mgt., Staff Recruitment	Personnel Mgt., Staff Recruitment, Staff Selection, Training, Morale, Remuneration and Staff Motivation
UT-2	SECOND TERM
Staff leadership and Promotion Transfer and Separation	Staff leadership and Promotion Transfer and Separation, Staff Appraisal, Dismissal, Basics of Communication, Media of Communication, Reception Services, Interviews, Communication Systems
UT-3	SECOND TERM
	Written Correspondance
Pre-Board Exam Portion	
Internal Written Communication, Job Application and resume	Internal Written Communication, Job Application and resume, General Trading Letters, Employment letters
	Letter for Quick Communication, Telegrams, Report Writings, Meetings, Notice etc. of Meeting,
	Visual Communication, Organising mail Dept., Office machines and equipments,
	portion covered in 1st & 2nd term

Motilal Nehru Public School
Jamshedpur

Yearly Syllabus: 2016- 2017
XII A,B,C

*ACCOUNTS	
UT-1	FIRST TERM
Admission of a Partner	Partnership Account (Fundamental), Admission of a Partner , change in profit sharing ratio ,
	Retirement and death of a partner
UT-2	
Retirement and death of a partner	SECOND TERM
UT-3	Issue of shares and debentures, Company Final accounts
Issue of Shares	, Accounting Ratio and financial statement analysis, All Portion of 1st Term
Pre-Board Exam Portion	
Death of a partner(cont), Dissolution of a partnership firm , Cashflow statements,	
Portion covered in First term & second term	
*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)