



BLS INTERNATIONAL SCHOOL, HATHRAS

SESSION – 2021-2022

ANNUAL SYLLABUS BREAKUP

Class – XI

Sub. -English

TEACHER INCHARGE	SUBJECT	NAME & PUBLISHER OF THE BOOK	MONTH ASSIGNED	CHAPTER NO. AS PER BOOK	TOPIC/TITLE OF THE CHAPTER
Dr. Irfan Ilahi / Mr. Mohd Faisal	English	1. Hornbill 2. Snapshot (Supplementary Reader Book)	MAY	<u>Hornbill:</u> Chap 1 <u>Snapshot:</u> Chap 1 <u>Writing skills:</u> Notice Writing	<ul style="list-style-type: none"> • The Portrait of a Lady • The Summer of the Beautiful White Horse • Types of Notice Writing
		1. Hornbill 2. Snapshot (Supplementary Reader Book)	JULY	<u>Hornbill:</u> Chap 2 Chap1 (Poem) <u>Snapshot:</u> Chap 2 <u>Writing skills:</u> *Advertisement *Poster Making *Integrated Grammar Exercise	<ul style="list-style-type: none"> • We're Not Afraid to Die • A Photograph • The Address • Types of Advertisement • Types of Poster • Practice Exercises
		1. Hornbill 2. Snapshot (Supplementary Reader Book)	AUGUST	<u>Hornbill:</u> Chap 3 Chap 3 (Poem) Chap 4 <u>Snapshot:</u> Chap 3 Chap 4 <u>Writing skills:</u> Letter Writing Speech Writing	<ul style="list-style-type: none"> • Discovering Tut: the Saga Continues • The Laburnum Top • Landscape of the Soul • Ranga's Marriage • Albert Einstein at School • Types of Formal letter • Speech Writing
		1. Hornbill 2. Snapshot (Supplementary Reader Book)	SEPTEMBER	<u>Hornbill:</u> Chap 5 Chap 4 (Poem) <u>Snapshot:</u> Chap 5 <u>Writing skills:</u> Report Writing Article Writing	<ul style="list-style-type: none"> • The Ailing Planet • The Voice of the Rain • Mother's Day • Types of Report Writing • Article Writing

		1. Hornbill 2. Snapshot (Supplementary Reader Book)	OCTOBER	<p><u>Hornbill:</u> Chap 6</p> <p>Chap 6(Poem)</p> <p><u>Snapshot:</u> Chap 7</p> <p><u>Writing skills:</u> Integrated Grammar Exercise</p>	<ul style="list-style-type: none"> • The Browning Version • Childhood • Birth • Practice Exercises
		1. Hornbill 2. Snapshot (Supplementary Reader Book)	NOVEMBER	<p><u>Hornbill:</u> Chap 8</p> <p>Chap 8(Poem)</p> <p><u>Snapshot:</u> Chap 8</p> <p><u>Writing skills:</u> *Debate *Integrated Grammar Exercise *Note Making & Summary</p>	<ul style="list-style-type: none"> • Silk Road • Father to Son • The Tale of Melon City • Debate Writing • Practice Exercises • Note making
		1. Hornbill 2. Snapshot (Supplementary Reader Book)	DECEMBER	<p><u>Hornbill:</u> Chap 7</p> <p><u>Snapshot:</u> Chap 6</p> <p><u>Writing skills:</u> *Integrated Grammar Exercise</p>	<ul style="list-style-type: none"> • Adventure • The Ghat of the Only World • Practice Exercises
		1. Hornbill 2. Snapshot (Supplementary Reader Book)	JANUARY	<p><u>Hornbill:</u></p> <p><u>Snapshot:</u></p> <p><u>Writing skills:</u></p>	<ul style="list-style-type: none"> • Revision
		1. Hornbill 2. Snapshot (Supplementary Reader Book)	FEBRUARY	<p><u>Hornbill:</u></p> <p><u>Snapshot:</u></p> <p><u>Writing skills:</u></p>	<ul style="list-style-type: none"> • Revision



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ANNUAL SYLLABUS BREAKUP

Class – XI

Sub. - Mathematics

Teacher Incharge	Subject	Name & Publisher Of The Book	Month Assigned	Chapter No. As Per Book	Topic/Title Of The Chapter		
Sharad Garg Lokesh Kumar	Mathematics	Ncert Maths	April	Holiday			
		Ncert Maths	May	Ch1 (Half)	Sets		
		Ncert Maths	July	Ch1 (Half) Ch2 Ch3	Sets Relations And Functions Trigonometric Functions		
		Ncert Maths	August	Ch4 Ch5 Ch6	Principle of Mathematical Induction Complex Numbers And Quadratic Equations Linear Inequalities		
		Ncert Maths	September	Ch7 Ch8	Permutations And Combinations Binomial Theorem		
		Ncert Maths	October	Ch9 Ch10 Ch11 (Half)	Sequences And Series Straight Lines Conic Sections		
		Ncert Maths	November	Ch11 (Half) Ch12 Ch13	Conic Sections Introduction To Three Dimensional Geometry Limits And Derivatives		
		Ncert Maths	December	Ch15 Ch16	Statistics Probability		
					January	Revision	
					February	Revision	
					March	Annual Exam	



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Class – XI

Sub. - History

Teacher Incharge	Subject	Name & Publisher Of The Book	Month Assigned	Chapter No. As Per Book	Topic/Title Of The Chapter
Shaily Rastogi	History	Themes In World History: NCERT	May	CH-1	From The Beginning Of Time
			July	CH-2 CH-3	Writing And City Life An Empire Across Three Continents
			August	CH-4 CH-5	The Central Islamic Islands Nomadic Empires
			September	CH-6	The Three Orders
			October	CH-7 CH-8	Changing Cultural Traditions Confrontation Of Cultures
			November	CH-9	The Industrial Revolution
			December	CH-10	Displacing Indigenous People
			January	XH-11	Paths To Modernisation
			February	Revision	



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ANNUAL SYLLABUS BREAKUP

Class – XI

Sub. - Sociology

Teacher Incharge	Subject	Month Assigned	Name & Publisher Of The Book	Chapter Title & Number As Per Book	Topic/Title Of The Chapter
Syed Zubair	Sociology	May	Ncert-Book 1-Introducing Sociology	Ch-1 Sociology and Society	Sociology and Society
		July		Ch.2 Terms, concepts and their use in sociology Ch.3 Understanding social institutions	Terms, concepts and their use in sociology Understanding social institutions PERIODIC ASSESSMENT 1
		August		Ch.4 Culture and socialization	Culture and socialization
		September		HALF YEARLY EXAM	REVISION
		October	Ncert Book 2-Understanding Sociology	Ch.5 Doing sociology-Research Methods (Deleted Lesson Previous Year) Ch.1 Social structure, stratification and social processes in society (Deleted Lesson Previous Year)	Doing Sociology-Research Methods Social structure, stratification and social processes in society
		November		Ch.2 Social change and social order Ch.3 Environment and society (Deleted Lesson Previous Year)	Social change and social order Environment and society
		December		Ch. 4 Western sociologists	Western sociologists Periodic Assessment-3
		January		Ch. 5 Indian sociologists	Indian sociologists
		February		Revision	Remedial Class/ Viva Practical
		March		Annual Exam	Annual Exam



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ANNUAL SYLLABUS BREAKUP

Class – XI

Sub. – Informatics Practices

Teacher Incharge	Subject	Name & Publisher Of The Book	Month Assigned	Chapter No. As Per Book	Topic/Title Of The Chapter
Mradul Varshney	Informatics Practices	Informatics Practices- Dhanpat Rai publication (Sumita Arora)	April	-	-
		Informatics Practices- Dhanpat Rai publication (Sumita Arora)	May	Unit 1: Introduction to Computer System	Introduction to computers and computing: evolution of computing devices, components of a computer system and their interconnections, Input/Output devices. Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns. 2 Software: purpose and types – system and application software, generic and specific purpose software.
		Informatics Practices- Dhanpat Rai publication (Sumita Arora)	July	Unit 2: Introduction to Python	Basics of Python programming, Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables PERIODIC TEST 1
		Informatics Practices- Dhanpat Rai publication (Sumita Arora)	August	Unit 2 : Introduction to Python	types of operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation of expressions, comments, input and output statements, data type conversion, debugging, control statements: if-else, for loop Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions.: len(), list(), append(), extend(), insert(), count(), find(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum() Dictionary: concept of key-value

				Unit 3: Data Handling using NumPy	<p>pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions: len(), dict(), keys(), values(), items(), get(), update(), clear(), del()</p> <p>Data and its purpose, importance of data, structured and unstructured data, data processing cycle, basic statistical methods for understanding data - mean, median, mode, standard deviation and variance.</p> <p>Introduction to NumPy library, NumPy arrays and their advantage, NumPy attributes, creation of NumPy arrays; from lists using np.array(), np.zeros(), np.ones(), np.arange() , indexing, slicing, and iteration; concatenating and splitting array;</p>
		Informatics Practices- Dhanpat Rai publication (Sumita Arora)	September		HALF YEARLY EXAMS
		Informatics Practices- Dhanpat Rai publication (Sumita Arora)	October	Unit 3: Data Handling using NumPy	<p>Arithmetic operations on one dimensional and two dimensional arrays.</p> <p>Calculating max, min, count, sum, mean, median, mode, standard deviation, variance on NumPy arrays.</p>
		Informatics Practices- Dhanpat Rai publication (Sumita Arora)	November	Unit 4: Database concepts and the Structured Query Language	<p>Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: concept of attribute, domain, tuple, relation, candidate key, primary key, alternate key, foreign key.</p> <p>Structured Query Language: Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL: Creating a database, using database, showing tables using MySQL, Data Types : char, varchar, int, float, date</p>

		Informatics Practices- Dhanpat Rai publication (Sumita Arora)	December	Unit 4: Database concepts and the Structured Query Language	Data Definition Commands: CREATE, DROP, ALTER (Add and Remove primary key, attribute). Data Query Commands: SELECT-FROM- WHERE, LIKE, BETWEEN, IN, ORDER BY, using arithmetic, logical, relational operators and NULL values in queries, Distinct clause Data Manipulation Commands: INSERT, UPDATE, DELETE.
		Informatics Practices- Dhanpat Rai publication (Sumita Arora)	January	Unit 5: Introduction to the Emerging Trends	Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.
		Informatics Practices- Dhanpat Rai publication (Sumita Arora)	February	Revision	Remedial Class/ Viva Practical
		Informatics Practices- Dhanpat Rai publication (Sumita Arora)	March	Annual Exam	Annual Exam



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ANNUAL SYLLABUS BREAKUP

Class – XI

Sub. – Computer Science

Teacher Incharge	Subject	Name & Publisher Of The Book	Month Assigned	Chapter No. As Per Book	Topic/Title Of The Chapter
Upendra Varshney	Computer Science	Sultan Chand Publications Preeti Arora	May	Unit 1 Computer System Organisation	Unit I: Computer Systems And Organisation Basic Computer Organisation: Introduction To Computer Hardware, Software, Input Device, Output Device, Memory (Primary, Cache And Secondary), Units Of Memory (Bit, Byte, Kb, Mb, Gb, Tb, Pb), Types Of Software: System Software (Operating Systems, System Utilities, Device Drivers), Programming Tools And Language Translators (Assembler, Compiler & Interpreter), Application
			July	Unit 1 Computer System Organisation Unit 2: Computational Thinking And Programming	Operating System (OS): Functions Of Operating System, OS User Interface Boolean Logic: NOT, AND, OR, NAND, NOR, XOR, Truth Table, De Morgan's Laws And Logic Circuits Number System: Binary, Octal, Decimal And Hexadecimal Number System; Conversion Between Number Systems. Encoding Schemes: ASCII, ISCII And UNICODE (UTF8, UTF32) Emerging Trends: Cloud Computing, Cloud Services (Saas, Iaas, Paas), Blockchains, Artificial Intelligence (AI), Machine Learning (ML), Internet Of Things (Iot) Introduction To Problem Solving: Steps For Problem Solving (Analysing The Problem, Developing An Algorithm, Coding, Testing And Debugging). Representation Of Algorithms Using Flow Chart And Pseudo Code, Decomposition □ Familiarization With The Basics Of Python Programming: Introduction To Python, Features Of Python, Executing A Simple "Hello World" Program, Execution Modes: Interactive Mode And Script Mode, Python Character Set, Python Tokens (Keyword, Identifier, Literal, Operator, Punctuator), Variables, Concept Of L-Value And R-Value, Use Of Comments.
			August	Unit 2: Computational Thinking And Programming	Knowledge Of Data Types: Number (Integer, Floating Point, Complex), Boolean, Sequence (String, List, Tuple), None, Mapping (Dictionary), Mutable And Immutable Data Types

				<p>Operators: Arithmetic Operators, Relational Operators, Logical Operators, Assignment Operator, Augmented Assignment Operators, Identity Operators (Is, Is Not), Membership Operators (In, Not In)</p> <p>Expressions, Statement, Type Conversion & Input/Output: Precedence Of Operators, Expression, Evaluation Of Expression, Python Statement, Type Conversion (Explicit & Implicit Conversion), Accepting Data As Input From The Console And Displaying Output</p>
			September	<p><u>MID TERM EXAMS</u></p>
			October	<p>Lists: Introduction, Indexing, List Operations (Concatenation, Repetition, Membership & Slicing), Traversing A List Using Loops, Built-In Functions: Len(), List(), Append(), Extend(), Insert(), Count(), Index(), Remove(), Pop(), Reverse(), Sort(), Sorted(), Min(), Max(), Sum(); Nested Lists, Suggested Programs: Finding The Maximum, Minimum, Mean Of Numeric Values Stored In A List; Linear Search On List Of Numbers And Counting The Frequency Of Elements In A List</p>
			November	<p>Tuples: Introduction, Indexing, Tuple Operations (Concatenation, Repetition, Membership & Slicing), Built-In Functions: Len(), Tuple(), Count(), Index(), Sorted(), Min(), Max(), Sum(); Tuple Assignment, Nested Tuple, Suggested Programs: Finding The Minimum, Maximum, Mean Of Values Stored In A Tuple; Linear Search On A Tuple Of Numbers, Counting The Frequency Of Elements In A Tuple</p> <p>□ Dictionary: Introduction, Accessing Items In A Dictionary Using Keys, Mutability Of Dictionary (Adding A New Item, Modifying An Existing Item), Traversing A Dictionary, Built-In Functions: Len(), Dict(), Keys(), Values(), Items(), Get(), Update(), Del(), Clear(), Fromkeys(), Copy(), Pop(), Popitem(), Setdefault(), Max(), Min(), Count(), Sorted(), Copy(); Suggested Programs : Count The Number Of Times A Character Appears In A Given String Using A Dictionary, Create A Dictionary With Names Of Employees, Their Salary And Access Them</p>

			December		<p>Sorting Techniques: Bubble And Insertion Sort</p> <p>Introduction To Python Modules: Importing Module Using 'Import <Module>' And Using From Statement, Importing Math Module (Pi, E, Sqrt, Ceil, Floor, Pow, Fabs, Sin, Cos, Tan); Random Module (Random, Randint, Randrange), Statistics Module (Mean, Median, Mode)</p>
			January	Unit III: Society, Law And Ethics	<p>Unit III: Society, Law And Ethics</p> <ul style="list-style-type: none"> • Digital Footprints • Digital Society And Netizen: Net Etiquettes, Communication Etiquettes, Social Media Etiquettes • Data Protection: Intellectual Property Right (Copyright, Patent, Trademark), Violation Of IPR (Plagiarism, Copyright Infringement, Trademark Infringement), Open Source Softwares And Licensing (Creative Commons, GPL And Apache) • Cyber-Crime: Definition, Hacking, Eavesdropping, Phishing And Fraud Emails, Ransomware, Preventing Cyber Crime • Cyber Safety: Safely Browsing The Web, Identity Protection, Confidentiality, Cyber Trolls And Bullying. • Safely Accessing Web Sites: Malware, Viruses, Trojans, Adware • E-Waste Management: Proper Disposal Of Used Electronic Gadgets • Indian Information Technology Act (IT Act) • Technology & Society: Gender And Disability Issues While Teaching And Using Computers
			February	REVISION	Revision, Project Work , Session Ending Practical Examination
			March	<u>ANNUAL EXAMS</u>	<u>ANNUAL EXAMS</u>



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Class – XI

Sub. – Physical Education

Teacher Incharge	Subject	Name & Publisher Of The Book	Month Assigned	Chapter No. As Per Book	Topic/Title Of The Chapter
Mr. Upendra Singh Mr. Qamber Rizwan	Physical Education	Health & Physical Education Dr. V K Sharma	May	Chapter – 1	1- Changing Trends & Career in Physical Education
		Health & Physical Education Dr. V K Sharma	JULY	Chapter – 1 Ch2	1- Changing Trends & Career in Physical Education 2- Olympic Value Education
		Health & Physical Education Dr. V K Sharma	AUGUST	Ch 3 Ch 4	3- Physical Fitness, Wellness & Lifestyle 4- Physical Education & Sports for CWSN
		Health & Physical Education Dr. V K Sharma	SEPTEMBER	Ch 5 Ch 6	5- Yoga 6- Physical Activity & Leadership Training
		Health & Physical Education Dr. V K Sharma	OCTOBER	Ch 7 Ch 8	7- Test, Measurement & Evaluation 8- Fundamentals of Anatomy, Physiology & Kinesiology in Sports
		Health & Physical Education Dr. V K Sharma	NOVEMBER	Ch 9 Ch 10 Practical Session	9- Psychology & Sports 10- Training and Doping in Sports Physical Fitness Test Proficiency in Games and Sports Yogic Practices
		Health & Physical Education Dr. V K Sharma	DECEMBER	Revision	Changing Trends & Career in Physical Education Olympic Value Education Physical Fitness, Wellness & Lifestyle
		Health & Physical Education Dr. V K Sharma	January	Revision:	Physical Education & Sports for CWSN Yoga Physical Activity & Leadership Training
		Health & Physical Education Dr. V K Sharma	FEBRUARY	Revision	Test, Measurement & Evaluation Fundamentals of Anatomy, Physiology & Kinesiology in Sports Psychology & Sports Training and Doping in Sports



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ANNUAL SYLLABUS BREAKUP

Class – XI

Sub. – Accountancy

TEACHER INCHARGE	SUBJECT	NAME & PUBLISHER OF THE BOOK	MONTH ASSIGNED	CHAPTER NO. AS PER BOOK	TOPIC/TITLE OF THE CHAPTER
Mr. Sumit Agarwal	Accountancy	Double Entry Book Keeping Financial Accounting- T.S Garewal	May	Ch- 1,2.	Ch-1. Introduction of Accounting Ch-2. Basic Terms
		Double Entry Book Keeping Financial Accounting- T.S Garewal	July	Ch - 3,4,5,6, 7,8	Revision before and during Unit Test Ch-3. Principles of Accounting Ch-4. Bases of Accounting Ch-5. Accounting Equation Ch-6. Rules of Debit & Credit Ch-7. Preparation of Vouchers Ch-8. Journal Entries
		Double Entry Book Keeping Financial Accounting- T.S Garewal	August	Ch- 9,10.	Ch-9. Subsidiary Books- Cash Book Ch-10. Subsidiary Books-Other Book
		Double Entry Book Keeping Financial Accounting- T.S Garewal	September	Ch- 11,12,13	Revision before and during Half Yearly Examination Ch-11. Ledger Ch-12. Trial Balance Ch-13. Bank Reconciliation Statement.
		Double Entry Book Keeping Financial Accounting- T.S Garewal	October	Ch- 14,15.	Ch-14. Provisions & Reserves Ch-15. Depreciation
		Double Entry Book Keeping Financial Accounting- T.S Garewal	November	Ch- 16,17,.	Ch-16. Bills of Exchange Ch-17. Rectification of Errors
		Double Entry Book Keeping Financial Accounting- T.S Garewal	December	Ch- 18,19.	Ch-18. Financial Statement of Sole Proprietorship Ch-19. Financial Statement with Adjustments Unit Test
		Double Entry Book Keeping Financial Accounting- T.S Garewal	January	Ch- 20.	Ch-20. Single Entry System Syllabus Complete
		Double Entry Book Keeping Financial Accounting- T.S Garewal	February	Ch- 1 to 20	Chwise Revision



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Class – XI

Sub. – Chemistry

TEACHER INCHARGE	SUBJECT	NAME & PUBLISHER OF THE BOOK	MONTH	CHAPTER NO. AS PER BOOK	TOPIC/TITLE OF THE CHAPTER
Ms. Anupama Sharma and Dr. Ranjna Jadon	Chemistry	NCERT	MAY	Ch-1	Ch-1 Some basic concepts of Chemistry
			JULY Periodic Test - 1	Ch-2 Ch-3	Ch-2 Structure of an atom Ch-3 Classification of elements
			AUGUST	Ch-4 Ch-5	Ch-4 Chemical bonding and molecular structure Ch-5 States of Matter
			SEPTEMBER Half Yearly Examination	Ch-6 Ch-8	Ch- 6 Thermodynamics Ch-8 Redox Reactions
			OCTOBER	Ch-7 Ch-9	Ch-7 Equilibrium Ch-9 Hydrogen
			NOVEMBER	Ch-10 Ch-11	Ch-10- s block elements Ch-11 p-block elements
			DECEMBER Periodic Test - 2	Ch-12 Ch-13	Ch-12 Basic concepts of organic chemistry Ch-13 Hydrocarbons
			JANUARY	Ch-13 Ch-14	Ch-13 Hydrocarbons (contd) Ch-14 Environmental chemistry
			FEBRUARY Annual Examination	Revision	



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ANNUAL SYLLABUS BREAKUP

Class – XI

Sub. – Physics (042)

TEACHER INCHARGE	SUBJECT	NAME & PUBLISHER OF THE BOOK	MONTH	CHAPTER NO. AS PER BOOK	TOPIC/TITLE OF THE CHAPTER
Mr. Pradeep Maheshwari & Mr. Vineesh Varshney	Physics	NCERT	MAY	Unit I: Physical World and Measurement	Chapter-1: Physical World Physics-scope and excitement; nature of physical laws; Physics, technology and society. Chapter-2: Units and Measurements Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement; significant figures. Dimensions of physical quantities, dimensional analysis and its applications.
			JULY Periodic Test -1	Unit II: Kinematics	Chapter-3: Motion in a Straight Line Frame of reference, Motion in a straight line: Position-time graph, speed and velocity. Elementary concepts of differentiation and integration for describing motion, uniform and non-uniform motion, average speed and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment). Chapter-4: Motion in a Plane Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors, relative velocity, Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors. Motion in a plane, cases of uniform velocity and uniform

					acceleration projectile motion, uniform circular motion
			AUGUST	Unit III: Laws of Motion	Chapter-5: Laws of Motion Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).
			SEPTEMBER Half Yearly Examination	Unit IV: Work, Energy and Power	Chapter-6: Work, Energy and Power Work done by a constant force and a variable force; kinetic energy, work energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces: conservation of mechanical energy (kinetic and potential energies); nonconservative forces: motion in a vertical circle; elastic and inelastic collisions in one and two dimensions
			OCTOBER	Unit V: Motion of System of Particles and Rigid Body Unit VI: Gravitation Unit VII: Properties of Bulk Matter	Chapter-7: System of Particles and Rotational Motion Centre of mass of a two-particle system, momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation). Statement of parallel and perpendicular axes theorems and their applications. Chapter-8: Gravitation Kepler's laws of planetary motion, universal law of gravitation.

				<p>Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite, Geo-stationary satellites.</p> <p>Chapter-9: Mechanical Properties of Solids Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity, Poisson's ratio; elastic energy.</p>
			NOVEMBER	<p>Unit VII: Properties of Bulk Matter</p> <p>Chapter-10: Mechanical Properties of Fluids Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its applications. Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.</p> <p>Chapter-11: Thermal Properties of Matter Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; C_p, C_v - calorimetry; change of state - latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law, Greenhouse effect.</p>
			DECEMBER Periodic Test -2	<p>Unit VIII: Thermodynamics</p> <p>Unit IX: Behaviour of Perfect Gases and Kinetic Theory of Gases</p> <p>Chapter-12: Thermodynamics Thermal equilibrium and definition of temperature (zeroth law of thermodynamics), heat, work and internal energy. First law of thermodynamics, isothermal and adiabatic processes. Second law of thermodynamics: reversible and irreversible processes, Heat engine and refrigerator.</p>

					<p>Chapter-13: Kinetic Theory Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number.</p>
			JANUARY	<p>Unit X: Oscillations and Waves</p>	<p>Chapter-14: Oscillations Periodic motion - time period, frequency, displacement as a function of time, periodic functions. Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a loaded spring- restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period. Free, forced and damped oscillations (qualitative ideas only), resonance.</p> <p>Chapter-15: Waves Wave motion: Transverse and longitudinal waves, speed of travelling wave, 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.</p>
			FEBRUARY Annual Examination	<p>Revision</p>	



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Class – XI

Sub. – Biology

TEACHER INCHARGE	SUBJECT	NAME & PUBLISHER OF THE BOOK	MONTH	CHAPTER NO. AS PER BOOK	TOPIC/TITLE OF THE CHAPTER
Mr. Ankit kushwaha	Biology	NCERT	MAY	Unit III Cell: Structure and function	Ch-8: Cell the unit of life Ch-10: Cell cycle and cell division
			JULY Periodic Test -1	Unit I: Diversity of living organisms	Ch-1: The living world Ch -2: Biological classification Ch - 3 : Plant Kingdom
			AUGUST	Unit II : Structural organization in animals and plants	Ch - 4: Animal Kingdom Ch-5: Morphology of flowering plants Ch 6: Anatomy of flowering plants
			SEPTEMBER Half Yearly Examination		Ch-7 Structural organization in animals
			OCTOBER	Unit IV : Plant Physiology	Ch-11 : Transport in plants Ch - 12 : Mineral Nutrition Ch - 13 : Photosynthesis in higher Plants
			NOVEMBER	Unit V: Human Physiology	Ch-14 : Respiration in Plants Ch - 15 : Plant growth and development Ch-16 : Digestion and Absorption
			DECEMBER Periodic Test -2		Chapter -17: Breathing and Exchange of Gases Chapter -18: Body Fluids and Circulation
			JANUARY		Chapter-19: Excretory products and their Elimination Chapter -20: Locomotion and Movement Chapter -21: Neural Control and Coordination Chapter -22: Chemical control and integration Ch 9: Biomolecule
			FEBRUARY Annual Examination	Revision	



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ANNUAL SYLLABUS BREAKUP

Class – XI

Sub. – Business Studies

Teacher Incharge	Subject	Name & Publisher Of The Book	Month Assigned	Chapter No. As Per Book	Topic/Title Of The Chapter
Bharat Chawla	Business Studies	Business Studies - NCERT / P P Publication (G.S.Alag)	MAY	Unit 1 Nature and Purpose of Business	History of Trade and Commerce in India: Indigenous Banking System, Rise of Intermediaries, Transport, Trading Communities: Merchant Corporations, Major Trade Centres, Major Imports and Exports, Position of Indian Sub-Continent in the World Economy. Business – meaning and characteristics Business, profession and employment Concept Classification of business activities - Industry and Commerce Commerce-trade: (types-internal, external; wholesale and retail) and auxiliaries to trade; (banking, insurance, transportation, warehousing, communication, and advertising) – meaning
		Business Studies - NCERT / P P Publication (G.S.Alag)	JUNE	Unit 2: Unit 2: Forms of Business organizations	Sole Proprietorship-Concept, merits and limitations. Partnership-Concept, types, merits and limitation of partnership, registration of a partnership firm, partnership deed. Types of partners Hindu Undivided Family Business: Concept Cooperative Societies-Concept, merits, and limitations Company - Concept, merits and limitations; Types: Private, Public and One Person Company – Concept Company - Concept, merits and limitations; Types: Private, Public and One Person Company – Concept Choice of form of business organization
		Business Studies - NCERT / P P Publication (G.S.Alag)	JULY	Unit 3: Public private and global enterprise	Develop an understanding of Public sector and private sector enterprises Forms of public sector enterprises: Departmental Undertakings, Statutory

					<p>Corporations and Government Company. • Identify and explain the features, merits and limitations of different forms of public sector enterprises</p> <p>Multinational Company – Feature. Joint ventures, Public private partnership – concept • Develop an understanding of multinational company, joint ventures and public private partnership by studying their meaning and features.</p>
		<p>Business Studies - NCERT / P P Publication (G.S.Alag)</p>	<p>AUGUST</p>	<p>Unit 4: Business Services</p> <p>Unit 5 : Emerging modes of Business</p> <p>HALF YEARLY EXAMS</p>	<p>• Understand the meaning and types of business services. • Discuss the meaning and types of Business service Banking • Develop an understanding of difference types of bank account. Banking services with particular reference to Bank Draft, Bank Overdraft, Cash credit. E-Banking meaning, Types of digital payments • Develop an understanding of the different services provided by banks Insurance – Principles. Types – life, health, fire and marine insurance – concept • Recall the concept of insurance • Understand Utmost Good Faith, Insurable Interest, Indemnity, Contribution, Doctrine of Subrogation and Causa Proxima as principles of insurance</p> <p>• Give the meaning of e-business. • Discuss the scope of e-business. • Appreciate the benefits of ebusiness • Distinguish e-business from traditional business. Business Process Outsourcing (BPO): Concept, need and scope • Understand the concept of outsourcing. • Examine the scope of outsourcing, appreciate the need of outsourcing. • Discuss the meaning of Business Process Outsourcing and Knowledge Process Outsourcing</p> <p>HALF YEARLY EXAMS</p>
		<p>Business Studies - NCERT / P P Publication (G.S.Alag)</p>	<p>SEPTEMBER</p>	<p>Unit 6: Social Responsibility of Business and Business Ethics</p>	<p>• State the concept of social responsibility. Case of social responsibility • Examine the case for social responsibility. Responsibility towards owners,</p>

					investors, consumers, employees, government and community. • Identify the social responsibility towards different interest groups. Role of business in environment protection • Appreciate the role of business in environment protection. Business Ethics - Concept and Elements • State the concept of business ethics. • Describe the elements of business ethics
		Business Studies - NCERT / P P Publication (G.S.Alag)	OCTOBER	Unit 7: Sources of Business Finance	<ul style="list-style-type: none"> • State the meaning, nature and importance of business finance. Owners' funds- equity shares, preferences share, retained earnings, Global Depository receipt (GDR), American Depository Receipt (ADR) and International Depository Receipt (IDR) – concept • Classify the various sources of funds into owners' funds. • State the meaning of owners' funds. • Understand the meaning of Global Depository receipts, American Depository Receipts and International Depository Receipts. Borrowed funds: debentures and bonds, loan from financial institution and commercial banks, public deposits, trade credit, Inter Corporate Deposits (ICD). • State the meaning of borrowed funds. • Discuss the concept of debentures, bonds, loans from financial institutions and commercial banks, Trade credit and inter corporate deposits. • Distinguish between owners' funds and borrowed funds. .
		Business Studies - NCERT / P P Publication (G.S.Alag)	NOVEMBER	Unit 8: SMALL BUSINESS	<ul style="list-style-type: none"> • Understand the concept of Entrepreneurship Development (ED), Intellectual Property Rights Small scale enterprise as defined by MSMED Act 2006 (Micro, Small and Medium Enterprise Development Act) • Understand the meaning of small business Role of small business in India with special reference to rural areas • Discuss the role of small business in India Government schemes and agencies for small

					scale industries: National Small Industries Corporation (NSIC) and District Industrial Centre (DIC) with special reference to rural, backward areas • Appreciate the various Government schemes and agencies for development of small scale industries. NSIC and DIC with special reference to rural, backward area.
		Business Studies - NCERT / P P Publication (G.S.Alag)	DECEMBER	Unit 9: Internal Trade	Internal trade - meaning and types services rendered by a wholesaler and a retailer • State the meaning and types of internal trade. • Appreciate the services of wholesalers and retailers. Types of retail-trade-Itinerant and small scale fixed shops retailers • Explain the different types of retail trade. Large scale retailers- Departmental stores, chain stores - concept • Highlight the distinctive features of departmental stores, chain stores and mail order business. GST (Goods and Services Tax): Concept and key-features
		Business Studies - NCERT / P P Publication (G.S.Alag)	January	UNIT 10: International Trade	International trade: concept and benefits • Understand the concept of international trade. • Describe the scope of international trade to the nation and business firms. Export trade – Meaning and procedure • State the meaning and objectives of export trade. • Explain the important steps involved in executing export trade. Import Trade - Meaning and procedure • State the meaning and objectives of import trade. • Discuss the important steps involved in executing import trade. Documents involved in International Trade; indent, letter of credit, shipping order, shipping bills, mate's receipt (DA/DP) • Develop an understanding of the various documents used in international trade. • Identify the specimen of the various documents used in international trade. • Highlight the importance of the documents needed in connection with international trade

					<p>transactions World Trade Organization (WTO) meaning and objectives • State the meaning of World Trade Organization. • Discuss the objectives of World Trade Organization in promoting international trade</p>
		<p>Business Studies - NCERT / P P Publication (G.S.Alag)</p>	<p>FEBRUARY MARCH</p>	<p>ANNUAL EXAMS</p>	<p>Revision & ANNUAL EXAMS</p>



BLS INTERNATIONAL SCHOOL, HATHRAS

SESSION – 2021-2022

ANNUAL SYLLABUS BREAKUP

Class – XI

Sub. – Economics

Teacher Incharge	Subject	Name & Publisher Of The Book	Month Assigned	Chapter No. As Per Book	Topic/Title Of The Chapter
Miss. Farheen Naaz	ECO	Dhanpat Rai Publication, 1. Introductory Microeconomics 2. Statistics For Economics	MAY	Book 1 Introductory Microeconomics Chapter 1 Chapter 2:	Book 1 Introductory Microeconomics Introduction Consumer's Equilibrium
Miss. Farheen Naaz	ECON OMICS	Introductory Microeconomics	JULY	Chapter 3: Chapter 4: Chapter 5.	Demand Elasticity Of Demand Production Function
Miss. Farheen Naaz	ECON OMICS	Introductory Microeconomics	AUGUST	Chapter 6. Chapter 7 Chapter 8 Chapter 9.	Cost Revenue Producer's Equilibrium Supply
Miss. Farheen Naaz	ECON OMICS	Introductory Microeconomics Book 2 Statistics For Economics	SEPTEMBER	Chapter 10. Chapter 11. Book 2 Statistics For Economics Chapter 1. Chapter 2.	Main Market Forms Price Determination And Simple Applications Book 2 Statistics For Economics Introduction Meaning, Scope And Importance Of Statistics
Miss. Farheen Naaz	ECON OMICS	Statistics For Economics	OCTOBER	Chapter 3. Chapter 4. Chapter 5.	Collection Of Data Organisation Of Data Tabular Presentation
Miss. Farheen Naaz	ECON OMICS	Statistics For Economics	NOVEMBER	Chapter 6 Chapter 7. Chapter 8.	Diagrammatic Presentation Graphic Presentation Measures Of Central Tendency- Arithmetic Mean
Miss. Farheen Naaz	ECON OMICS	Statistics For Economics	DECEMBER	Chapter 9. Ch10	Measures Of Central Tendency- Median And Mode Measures Of Dispersion
Miss. Farheen Naaz	ECON OMICS	Book 2 Statistics For Economics	JANUARY	Ch11 Ch12	Measures Of Correlation Index Number
Miss. Farheen Naaz	ECON OMICS	Introductory Micro Economics, Statistics For Economics	FEBRUARY	Revision	Revision
Miss. Farheen Naaz	ECON OMICS		MARCH	<u>Annual Exam</u>	FULL SYLLABUS



BLS INTERNATIONAL SCHOOL, HATHRAS

SESSION – 2021-2022

ANNUAL SYLLABUS BREAKUP

Class – XI

Sub. – Political Science

Teacher Incharge	Subject	Name & Publisher Of The Book	Month Assigned	Chapter No. As Per Book	Topic/Title Of The Chapter
Amit Sharma	Political Science	Book -1 Indian Constitution (Ncert)	May	Ch1. Constitution	Constitution why and how, Fundamental rights and duties, DPSP, Amendment procedures.
		Book -2 Political Theory (Ncert)		Ch1. Political Theory : An Introduction	Politics, Political theory its importance and Scope.
		BOOK -1 INDIAN CONSTITUTION (NCERT)	July	Ch2. Election And Representation.	Election Types of Elections Election commission of India and its functioning.
		BOOK -2 POLITICAL THEORY (NCERT)		Ch.2 Freedom,	Liberty v/s Freedom, Negative and Positive Liberty.
		Book -1 Indian Constitution (Ncert)	August	Ch3. The Executives	Parliamentary Executives in India, The President, the Prime Minister and the council of Ministers, Permanent Executives, Bureaucracy.
		Book -2 Political Theory (Ncert)		Ch4. The Legislature	Why do we need a Parliament? Unicameral/Bicameral legislature, Functions and power of the Parliament, Parliamentary Committee, Parliamentary officials: Speaker, Deputy Speaker, Parliamentary Secretary.
				Ch5. The Judiciary	Why do we need an Independent Judiciary? Structure and Jurisdiction of the Judiciary, Judicial Review, Judicial Activism, Judicial over-reach.
				Ch3. Equality	What is Equality? Significance of Equality, Various Dimensions of Equality, How can we promote Equality.
		Book -1 Indian Constitution (Ncert)	September	Ch6. Federalism	Meaning of Federalism, Evolution and growth of Indian Federalism: Quasi Federalism,

		Book -2 Political Theory (Ncert)		Ch4. Social Justice	Cooperative Federalism, Competitive Federalism. What is Justice? Different dimensions of Justice, Distributive Justice.
		Book -2 Political Theory (Ncert)	October	Ch5. Rights Ch6. Citizenship	What are Rights? History of Rights, kinds of Rights, Human Rights. Citizen and Citizenship, Citizen and Nation, Global Citizenship.
		Book -1 Indian Constitution (Ncert) Book -2 Political Theory (Ncert)	November	Ch7. Local Government Ch7. Nationalism Ch8. Secularism Ch9. Development.	Why do we need Local government? Growth of Local Governments in India, 73rd and 74th Constitutional Anendments, working and challenges of Local Governments. Nation and Nationalism, variants of Nationalism, Nationalism and Multiculturalism. What is Secularism? Western and Indian perspectives of Secularism, salient features of Indian Secularism. Growth and Development, Different Models of Development- Welfare state Model, Market model, Development Model
		Book -1 Indian Constitution (Ncert) Book -2 Political Theory (Ncert)	December		<ul style="list-style-type: none"> Revision
		Book -1 Indian Constitution (Ncert) Book -2 Political Theory (Ncert)	January		<ul style="list-style-type: none"> Revision
		Book -1 Indian Constitution (Ncert) Book -2 Political Theory (Ncert)	February		<ul style="list-style-type: none"> Revision



BLS INTERNATIONAL SCHOOL, HATHRAS

SESSION – 2021-2022

ANNUAL SYLLABUS BREAKUP

Class – XI

Sub. – Painting

Teacher Incharge	Subject	Name & Publisher Of The Book	Month Assigned	Chapter No. As Per Book	Topic/Title Of The Chapter
Shiva Saxena	Painting	History Of Indian Art Full Marks Publications Part-1	April		
			May	Ch-1 Ch-2	Introduction Of Art Six Limbs Of Art
			July	Ch-3 Ch-4	Elements Of Art Pre- Historic Rock Painting 1 . Introduction 2.Period , Location And Development 3. Study Of The Following Pre- Historic Painting- I . A Roaring Animal Ii. Wizard' Dance
		Same	August	Ch- 5 Ch-6	Art Of Indus Valley 1 . Introduction 2. Period , Location And Development 3. Study Of Places Where Happan Civilization Found 4. Study Of The Following Sculpture And Terracottas- I. Dancing Girl Ii. Male Torso Iii. Mother Goddess Iv. Bull Seal V. Painted Earthen - Ware General Introduction To Art During Mauryan , Shunga , Kushan,Gandhara& Mathura Style And Gupta Period 1 . Study Of The Following Sculptures- I .Lion Capital Ii. Chauri Bearer Iii. Bodhisattva Head From Taxila Iv. Seated Buddha From Katra Mound V. Seated Buddha From Sarnath VI. Jain Tirathankara

			September	Ch-7 Ch-8	Ajanta Caves 1 . Introduction Of Ajanta Caves 2. Period , Location, 3. Origin And Development 4. Number And Types Of Caves 5. Subject Matter And Technique 6. Study Of The Following Painting And Sculpture- I. Padmapani Bodhisattva II. Mara Vijay
			October	Ch-9	Temple Sculpture, Bronzes And Artistic Aspect Of Indo- Islamic Architecture 1.Introduction To Temple Sculpture 2. Study Of The Following Temple Sculpture- I. Descent Of Ganga II. Ravana Shaking Mount Kailash III. Trimurti IV. Lakshmi Narayan V. Cymbal Player VI. Mother And Child
			November	Ch-10 Ch-11	Indian Bronzes Sculpture 1 . Introduction To Indian Bronzes 2. Method Of Casting (Solid And Hollow) 3. Study Of Following South Indian Bronzes – I. Nataraj II. Devi Artistic Aspects Of The Indo- Islamic Architecture - 1 . Introduction Of Indo- Islamic 2. Study Of The Following Architectures- I. Qutub- Minar II. Taj- Mahal III. Gol- Gumbaj
			December	Assignment And Revision	Practice For Practical
			January	Revision	Practice For Practical
			February	Revision	Practice For Practical