



**RAMAGYA SCHOOL, NOIDA**  
**ANNUAL CURRICULUM, 2023-24**  
**SUBJECT: ENGLISH CORE**  
**CLASS: XII**

**Prescribed Books:**

1. Flamingo - NCERT
2. Vistas - NCERT

MONTH	CHAPTER NO. & NAME	TOPICS
APRIL	Writing Skills	1. Notice Writing 2. Report Writing - Magazine and Newspaper
	Flamingo- Prose	Ch- The Last Lesson

	<b>Flamingo – Poem</b>	<b>My Mother at Sixty Six</b>
<b>MAY</b>	<b>Vistas – Prose</b>	<b>Ch – The Third Level</b>
	<b>Flamingo - Prose</b>	<b>Ch – Lost Spring</b>
	<b>Writing Skills</b>	<b>Letter to Editor Application for job</b>
	<b>Reading Skills</b>	<b>Reading Comprehension</b>
<b>JULY</b>	<b>Vistas – Prose</b>	<b>Ch – The Tiger King</b>
	<b>Flamingo – Prose</b>	<b>Ch – Deep Water</b>
		<b>Ch- The Rattrap</b>

	<b>Writing Skills</b>	<b>Formal and Informal Invitations &amp; Replies</b>
	<b>Flamingo – Poetry</b>	<b>Keeping Quiet</b>
<b>AUGUST</b>	<b>Vistas – Prose</b>	<b>Ch – The Enemy</b>
	<b>Flamingo - Prose</b>	<b>Ch – Indigo</b>
	<b>Flamingo – Poetry</b>	<b>A Thing of Beauty</b>
<b>SEPTEMBER</b>	<b>Vistas - Prose</b>	<b>Ch – Journey to the End of the Earth</b>
	<b>Writing Skills</b>	<b>Article Writing</b>
<b>OCTOBER</b>	<b>Flamingo - Poetry</b>	<b>A Roadside Stand</b>
	<b>Vistas - Prose</b>	<b>Ch – On the Face of It</b>
	<b>Flamingo - Prose</b>	<b>Ch – Poets and Pancakes</b>
<b>NOVEMBER</b>	<b>Flamingo - Poetry</b>	<b>Aunt Jennifer’s Tigers</b>
	<b>Vistas – Prose</b>	<b>Ch - Memories of Childhood</b>

	<b>Flamingo - Prose</b>	<b>Ch – The Interview</b>
		<b>Ch – Going Places</b>
<b>DECEMBER</b>		
<b>JANUARY</b>		
<b>FEBRUARY</b>		



**RAMAGYA SCHOOL, NOIDA**  
**ANNUAL CURRICULUM, 2023-24**  
**SUBJECT: CHEMISTRY**  
**CLASS: XII**

**Prescribed Books:**

1. NCERT PART 1 AND 2
2. PRACTICAL FILE

<b>TERM I</b>		
<b>MONTH &amp; NO. OF DAYS</b>	<b>CHAPTER NO. &amp; NAME</b>	<b>TOPICS</b>
<b>APRIL</b>	<b>Organic chemistry</b> HALOALKANES AND HALOARENES	Reaction mechanism- electrophilic and nucleophilic substitution <ul style="list-style-type: none"><li>• Haloalkanes: Nomenclature, nature of C–X bond, physical and chemical properties,</li><li>• mechanism of substitution reactions,</li></ul>

		<ul style="list-style-type: none"> <li>• optical rotation.</li> </ul>
<b>MAY</b>	<p>HALOALKANES AND HALOARENES</p> <p>ALCOHOLS, PHENOLS AND ETHERS</p>	<ul style="list-style-type: none"> <li>• Haloarenes: Nature of C–X bond, substitution reactions (Directive influence of halogen in mono substituted compounds only).</li> <li>• Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only),</li> <li>• identification of primary, secondary and tertiary alcohols,</li> <li>• mechanism of dehydration,</li> <li>• uses with special reference to methanol and ethanol.</li> <li>• Phenols: Nomenclature, methods of preparation, physical and chemical properties,</li> <li>• acidic nature of phenol,</li> <li>• electrophilic substitution reactions, uses of phenols.</li> <li>• Ethers: Nomenclature, methods of preparation, physical and chemical properties,</li> <li>• uses.</li> </ul>
<b>JULY</b>	<p>ALDEHYDES, KETONES AND CARBOXYLIC ACIDS</p>	<p>Aldehydes and Ketones: Nomenclature, nature of carbonyl group,</p> <ul style="list-style-type: none"> <li>• methods of preparation, physical and chemical properties, mechanism of nucleophilic addition,</li> <li>• reactivity of alpha hydrogen in aldehydes:</li> </ul> <p>Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties</p> <ul style="list-style-type: none"> <li>• Amines: Nomenclature, classification, structure,</li> <li>• methods of preparation, physical and chemical properties, uses,</li> <li>• identification of primary, secondary and tertiary amines.</li> </ul> <p>Cyanides and Isocyanides</p> <p>Carbohydrates, types</p>



	ELECTROCHEMISTRY	
<b>SEPTEMBER</b>		EXAM
<b>OCTOBER</b>	COORDINATION COMPOUNDS  D AND F BLOCK ELEMENTS	Coordination compounds - Introduction, ligands, coordination number, colour, magnetic properties and shapes, <ul style="list-style-type: none"> <li>• IUPAC nomenclature of mononuclear coordination compounds.</li> </ul> Werner's theory, VBT, and CFT <ul style="list-style-type: none"> <li>• General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals - metallic character,</li> </ul> ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation
<b>NOVEMBER</b>	<b>PREBOARD</b>	
<b>DECEMBER</b>	<b>PREBOARD</b>	
<b>JANUARY</b>	<b>REVISION</b>	





**RAMAGYA SCHOOL, NOIDA**  
**ANNUAL CURRICULUM, 2023-24**  
**SUBJECT: PHYSICS**  
**CLASS: XII**

**Prescribed Books**

1. NCERT PART 1 AND 2
2. FULL MARKS PRACTICAL FILE

MONTH & NO. OF DAYS	CHAPTER NO. & NAME	TOPICS
APRIL 19	Chapter-1: Electric Charges and Fields	<p>Electric charges, Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution.</p> <p>Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field.</p> <p>Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and</p>

		uniformly charged thin spherical shell (field inside and outside).
<b>MAY 22</b>	<b>Chapter–2: Electrostatic Potential and Capacitance</b>	Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only).
	<b>Chapter–3: Current Electricity</b>	Electric current, flow of electric charges in a metallic conductor, drift velocity,

		<p>mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.</p>
	<p><b>Chapter-4: Moving Charges and Magnetism</b></p>	<p>Biot - Savart law and its application to current carrying circular loop.</p> <p>Ampere's law and its applications to infinitely long straight wire. Straight solenoid (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; Current loop as a magnetic dipole and its magnetic dipole moment, moving coil galvanometers current sensitivity and conversion to ammeter and voltmeter.</p> <p>Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only), magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only), torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only), magnetic field lines.</p> <p>Magnetic properties of materials- Para-, dia- and ferro - magnetic substances with examples, Magnetization of materials, effect of temperature on magnetic properties.</p>

<p><b>JULY 21</b></p>	<p><b>Chapter-5: Magnetism and Matter</b></p>	
	<p>Chapter-6: Electromagnetic Induction</p>	<p>Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Self and mutual induction.</p>



<p><b>OCTOBER 19</b></p>	<p>Chapter–10: Wave Optics</p>	<p>Ray Optics: Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism.</p> <p>Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.</p> <p>Wave optics: Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only).</p>
	<p>Chapter–11: Dual Nature of Radiation and Matter</p>	<p>Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect</p> <p>Matter waves-wave nature of particles, de-Broglie relation.</p>

<b>NOVEMBER 17</b>	Chapter–12: Atoms	Composition and size of nucleus, nuclear force Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.
	Chapter–13: Nuclei	Composition and size of nucleus, nuclear force Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.  Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode -diode as a rectifier.
	Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits	
<b>DECEMBER 20</b>	<b>REVISION</b>	

<b>JANUARY 12</b>	<b>REVISION</b>	
<b>FEBRUARY 21</b>	<b>REVISION</b>	



**RAMAGYA SCHOOL, NOIDA**  
**TERM WISE ANNUAL CURRICULUM, 2023-24**  
**SUBJECT: BIOLOGY**  
**CLASS: XII**

**Prescribed Books:**

1. NCERT
2. NCERT EXEMPLAR

<b>S.No</b>	<b>MONTH</b>	<b>CHAPTER NO. &amp; NAME</b>	<b>TOPICS</b>
	<b>APRIL</b>	<b>UNIT VI CH 2: SEXUAL REPRODUCTION IN FLOWERING PLANTS CH 3: HUMAN REPRODUCTION</b>	<b>UNIT VI CH 2: SEXUAL REPRODUCTION IN FLOWERING PLANTS TOPICS 2.1- FLOWER – A FASCINATING ORGAN OF ANGIOSPERMS 2.2- PRE-FERTILIZATION: STRUCTURES AND EVENTS 2.3- DOUBLE FERTILIZATION</b>



			<p><b>2.4- POST FERTILIZATION: STRUCTURES AND EVENTS</b></p> <p><b>2.5- APOMIXIS AND POLYEMBRYONY</b></p> <p><b>CH 3: HUMAN REPRODUCTION</b></p> <p><b>TOPICS</b></p> <p><b>3.1- THE MALE REPRODUCTIVE SYSTEM</b></p> <p><b>3.2- THE FEMALE REPRODUCTIVE SYSTEM</b></p> <p><b>3.3- GAMETOGENESIS</b></p> <p><b>3.4- MENSTRUAL CYCLE</b></p> <p><b>3.5- FERTILIZATION AND IMPLANTATION</b></p> <p><b>3.6- PREGNANCY AND IMPLANTATION</b></p> <p><b>3.7- PARTURITION ZAND LACTATION</b></p>
	<b>MAY</b>	<p><b>UNIT VI</b> <b>CH 4: REPRODUCTIVE HEALTH</b></p> <p><b>UNIT VII</b> <b>CH 5: PRINCIPLES O INHERITANCE AND VARIATION</b> <b>CH 6: MOLECULAR BASIS OF INHERITANCE</b></p>	<p><b>UNIT VI</b> <b>CH 4: REPRODUCTIVE HEALTH</b></p> <p><b>TOPICS</b></p> <p><b>4.1- REPRODUCTIVE HEALTH-PROBLEMS AND STRATEGIES</b></p> <p><b>4.2- POPULATION EXPLOSION AND BIRTH CONTROL</b></p> <p><b>4.3- MEDICAL TERMINATION OF PREGNANCY</b></p>

			<p><b>4.4- SEXUALLY TRANSMITTED DISEASES</b></p> <p><b>4.5- INFERTILITY</b></p> <p><b>UNIT VII</b></p> <p><b>CH 5: PRINCIPLES O INHERITANCE AND VARIATION</b></p> <p><b>TOPICS</b></p> <p><b>5.1- MENDEL’S LAWS OF INHERTANCE</b></p> <p><b>5.2- INHERITANCE OF ONE GENE</b></p> <p><b>5.3- INHERITANCE OF TWO GENES</b></p> <p><b>5.4- SEX DETERMINATION</b></p> <p><b>5.5- MUTATION</b></p> <p><b>5.6- GENETIC DISORDERS</b></p> <p><b>CH 6: MOLECULAR BASIS OF INHERITANCE</b></p> <p><b>TOPICS</b></p> <p><b>6.1- THE DNA</b></p> <p><b>6.2- THE SEARCH FOR GENETIC MATERIAL</b></p> <p><b>6.3- RNA WORLD</b></p> <p><b>6.4- REPLICATION</b></p> <p><b>6.5- TRANSCRIPTION</b></p>
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			<b>6.6- GENETIC CODE</b>
<b>JULY</b>	<b>UNIT VII</b>  <b>CH 6: MOLECULAR BASIS OF INHERITANCE</b> <b>CH 7: EVOLUTION</b>  <b>UNIT VIII</b> <b>CH 8: HUMAN HEALTH AND DISEASES</b>	<b>UNIT VII</b>  <b>CH 6: MOLECULAR BASIS OF INHERITANCE</b>  <b>TOPICS</b>  <b>6.7- TRANSLATION</b> <b>6.8- REGULATION OF GENE EXPRESSION</b> <b>6.9- HUMAN GENOME PROJECT</b> <b>6.10- DNA FINGERPRINTING</b>  <b>CH 7: EVOLUTION</b>  <b>TOPICS</b>  <b>7.1- ORIGIN OF LIFE</b> <b>7.2- EVOLUTION OF LIFE FORMS – A THEORY</b> <b>7.3- WHAT ARE EVIDENCES OF EVOLUTION</b> <b>7.4- ADAPTIVE RADIATION</b> <b>7.5- BIOLOGICAL EVOLUTION</b> <b>7.6- MECHANISM OF EVOLUTION</b> <b>7.7- HARDY- WEINBERG PRINCIPLE</b> <b>7.9- ORIGIN AND EVOLUTION OF MAN</b>  <b>UNIT VIII</b> <b>CH 8: HUMAN HEALTH AND DISEASES</b>  <b>TOPICS</b>	

			<b>8.1- COMMON DISEASES IN HUMANS</b> <b>8.2- IMMUNITY</b> <b>8.3- AIDS</b> <b>8.4- CANCER</b> <b>8.5- DRUGS AND ALCHOHOL ABUSE</b>
	<b>AUGUST</b>	<b>UNIT VIII</b> <b>CH 10: MICROBES IN HUMAN WELFARE</b>  <b>UNIT IX</b> <b>CH 11: BIOTECHNOLOGY PRINCIPLES AND PROCESSES</b>	<b>UNIT VIII</b> <b>CH 10: MICROBES IN HUMAN WELFARE</b>  <b>TOPICS</b>  <b>10.1- MICROBES IN HOUSEHOLD PRODUCTS</b> <b>10.2- MICROBES IN INDRUSTRIAL PRODUCTS</b> <b>10.3- MICROBES IN SEWAGE TREATMENT</b> <b>10.4- MICROBES IN PRODUCTION OF BIOGAS</b> <b>10.5- MICROBES AS BIOCONTROL AGENTS</b> <b>10.6- MICROBES AS BIOFERTILIZERS</b>  <b>UNIT IX</b> <b>CH 11: BIOTECHNOLOGY PRINCIPLES AND PROCESSES</b>  <b>TOPICS</b>  <b>11.1- PRINCIPLES OF BIOTECHNOLOGY</b> <b>11.2- TOOLS OF RECOMBINANT DNA TECHNOLOGY</b>
	<b>SEPTEMBER</b>	<b>UNIT IX</b> <b>CH 12: BIOTECHNOLOGY AND ITS APPLICATION</b>	<b>UNIT IX</b> <b>CH 12: BIOTECHNOLOGY AND ITS APPLICATION</b>  <b>TOPICS</b>

			<b>12.1- BIOTECHNOLOGICAL APPLICATIONS IN AGRICULTURE</b> <b>12.2- BIOTECHNOLOGICAL APPLICATIONS IN MEDICINE</b> <b>12.3- TRANSGENIC ANIMALS</b> <b>12.4- ETHICAL ISSUES</b>
	<b>OCTOBER</b>	<b>UNIT X</b> <b>CH 13: ORGANISM AND POPULATION</b> <b>CH 14: ECOSYSTEM</b>	<b>UNIT X</b> <b>CH 13: ORGANISM AND POPULATION</b>  <b>TOPICS</b>  <b>13.2- POPULATIONS</b>  <b>CH 14: ECOSYSTEM</b>  <b>TOPICS-</b>  <b>14.1- ECOSYSTEM- STRUCTURE AND FUNCTION</b> <b>14.2- PRODUCTIVITY</b> <b>14.3- DECOMPOSITION</b> <b>14.4- ENERGY FLOW</b> <b>14.5- ECOLOGICAL PYRAMIDS</b>
	<b>NOVEMBER</b>	<b>UNIT X</b> <b>CH 15: BIODIVERSITY AND CONSERVATION</b>  <b>REVISION (THEORY + PRACTICAL)</b> <b>AND SAMPLE PAPER PRACTICE</b>	<b>UNIT X</b> <b>CH 15: BIODIVERSITY AND CONSERVATION</b>  <b>TOPICS</b>  <b>15.1- BIODIVERSITY</b> <b>15.2- BIODIVERSITY CONSERVATION</b>

	<b>DECEMBER</b>	<b>REVISION (THEORY + PRACTICAL) AND SAMPLE PAPER PRACTICE</b>	
	<b>JANUARY</b>	<b>REVISION (THEORY + PRACTICAL) AND SAMPLE PAPER PRACTICE</b>	
	<b>FEBRUARY</b>	<b>REVISION (THEORY + PRACTICAL) AND SAMPLE PAPER PRACTICE</b>	
	<b>MARCH</b>		



## **RAMAGYA SCHOOL, NOIDA**

**TERM WISE ANNUAL CURRICULUM, 2023-24**

**SUBJECT: ACCOUNTANCY**

**CLASS: XII**

### **Prescribed Books:**

1. Fundamentals of Partnership (T.S.Grewal, Publisher:S.Chand)
2. Accounting for Companies (T.S.Grewal, Publisher:S.Chand)
3. Analysis of Financial Statement (T.S.Grewal, Publisher:S.Chand)

<b>MONTH</b>	<b>CHAPTER NO. &amp; NAME</b>	<b>TOPICS</b>
<b>APRIL</b>	Fundamental of Partnership Valuation of goodwill	Past Adjustment, Guarantee to partners Goodwill, Average Method, Super profit method and Capitalisation Method. ratio, Sacrificing
<b>MAY</b>	Admission	Treatment of goodwill, Revaluation A/c, Capital A/C and Balance sheet, Restructuring of capital
<b>JUNE</b>		
<b>JULY</b>	Retirement, Death and dissolution	Treatment of goodwill, Revaluation A/c, Capital A/C and Balance sheet, Restructuring of capital
<b>AUGUST</b>	Issue of shares,	Shares, Balance sheet, issue, forfeiture, Reissue
<b>SEPTEMBER</b>	Issue of debenture	Debenture, Issue, Interest, Terms of issue
<b>MONTH</b>	<b>CHAPTER NO. &amp; NAME</b>	<b>TOPICS</b>
<b>OCTOBER</b>	Analysis of financial statement, Ratio Cash Flow Statement	Financial Statement, Analysis, Ratio, Types CFS, Operating, Investing and Financial Activity
<b>NOVEMBER</b>	CFS and Project & Revision	Project
<b>DECEMBER</b>	Revision	
<b>JANUARY</b>	Revision	

<b>FEBRUARY</b>		
<b>MARCH</b>		



**RAMAGYA SCHOOL, NOIDA**  
**TERM WISE ANNUAL CURRICULUM, 2023-24**  
**SUBJECT: BUSINESS STUDIES**  
**CLASS: XII**

**Prescribed Books:**

1. Business Studies-I by NCERT
2. Business Studies-II by NCERT
- 3.

<b>MONTH</b>	<b>CHAPTER NO. &amp; NAME</b>	<b>TOPICS</b>
<b>APRIL</b>	Nature and Significance of Management	Nature, Purpose and types of management and levels and coordination



<b>MAY</b>	Principles of Management	FW Taylors principles of management, Functional foremanship, Techniques of Scientific management
<b>JUNE</b>		
<b>JULY</b>	Business Environment	Nature, Feature, Importance, LPG
<b>AUGUST</b>	Planning Organisation Staffing	Process, types Meaning, Importance, Structures, Delegation, Decentralisation Recruitment, Process
<b>SEPTEMBER</b>	Controlling	Meaning, Importance, Process
<b>MONTH</b>	<b>CHAPTER NO. &amp; NAME</b>	<b>TOPICS</b>
<b>OCTOBER</b>	Financial Markets and Financial Mngement	Money, Capital, Primary, Secondary Market, Stock Exchange, SEBI, Financial Management, Decisions, Capital Structure
<b>NOVEMBER</b>	Marketing Management  Consumer Protection Project & Revision	Nature, Feature, Importance, Process, , Elements  Nature, Feature, Importance, Rights, Remedies  Project

<b>DECEMBER</b>	Project & Revision	
<b>JANUARY</b>	Project & Revision	
<b>FEBRUARY</b>		
<b>MARCH</b>		

**RAMAGYA SCHOOL, NOIDA**  
**ANNUAL CURRICULUM, 2022-23**  
**SUBJECT: HISTORY**  
**CLASS: XII**

**Prescribed Books:**

- 1. NCERT**
- 2. EXAM IDEA**

Month	Chapter number and name	Topic
April	Ch1-BRICKS, BEADS AND BONES	Town planning of Mohenjodaro, seals, socio –economic difference, Broad overview: Early urban centers Story of discovery: Harappan civilization Excerpt: Archaeological report on a major site Discussion: How it has been utilized by archaeologists/ historians , decline of civilization

May	<p>Ch-2- Kings, Farmers and Towns</p> <p>Ch 3-  KINSHIP, CASTE AND CLASS Early Society Societies (C. 600 BCE-600 CE)</p>	<p>Rise of mahajanapada, notion of kinship, mauryan administration, sources of maurya, Battle of Kalinga , Dhamma Mahammata , decline of maurya. Post Maurya period</p> <p>Using the Mahabharata- Issues in social history, including caste, class, kinship and gender  Story of discovery: Transmission and publications of the Mahabha rat  Excerpt: from the Mahabharata, illustrating how it has been used by historians.  Discussion: Other sources for reconstructing social history</p>
July	Teaching & philosophy of Buddhism, stupas, Sanchi & Amravati, Buddha sangha	

	<p>A brief review of religious histories of Vedic religion, Jainism, Vaishnavism, Shaivism (Puranic Hinduism) b) Focus on Buddhism. Story of discovery: Sanchi stupa. Excerpt: Reproduction of sculptures from Sanchi. Discussion: Ways in which sculpture has been interpreted by historians, other sources for reconstructing the history of</p> <p>Outlines of social and cultural life as they appear in traveller's account. Story of their writings: A discussion of where they travelled, what they wrote and for whom they wrote. Excerpts: from Al Biruni, Ibn Battuta, Francois Bernier. Discussion: What these travel accounts can tell us and how they have been interpreted by historians.</p>
August	<p>Principles of bhakti &amp; sufi, biography of famous bhakti saints, teachings of bhakti, besharia &amp; basharia tradition.</p> <p>Fortification of empire, administration of krishnadeva raya, nayaka &amp; amarnayaka system, construction of canals.</p> <p>The Aini-Akbari  a. Structure of agrarian relations in the 16th and 17th centuries.  b. Patterns of change over the period.</p>

	<p>Story of Discovery: Account of the compilation and translation of Ain I Akbari  Excerpt: from the Ain-iAkbari. Discussion: Ways in which historians have used texts to reconstruct history.</p>	
September	<p>Ch 9-  COLONIA  LISM  AND THE  COUNTR  YSIDE</p>	<p>Colonialism and Rural Society: Evidence from Official Reports a) Life of zamindars, peasants and artisans in the late18thcentury  b). Permanent Settlement, Santhals and Paharias Story of official records: An account of why official Investigations in to rural societies were undertaken and the types of records and reports produced. Excerpts: From Fifth Report Discussion: What the offici al records tell and do not tell, and how they have been used by historians</p>
October	<p>Ch 10-  REBELS  AND THE  RAJ:  1857  Revolt  and its  Represen  tations</p>	<p>a. The eventsof1857-58.  b. Vision of Unity  c. How these events were recorded and narrated.  Focus: Lucknow Excerpts: Pictures of 1857. Extracts from contemporary accounts. Discussion: How the pictures of 1857 shaped British opinion of what had happened.</p> <p>The Nationalist Movement 1918 -48.  The nature of Gandhian politics and leadership. Mahatma Gandhi and the three movements and his last days as “finest hours” Excerpts: Reports from English and Indian language newspapers and</p>

	Ch 11-  Mahatma Gandhi through contemporary eyes.	other contemporary writings. Discussion: How newspapers can be a source of history.
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November	Ch 12 - FRAMIN G THE CONSTIT UTION	The Making of the Constitution an overview: a. Independence and then new nation state. b. The making of the Constitution The Constituent Assembly Debates Excerpts: from the debates Discussion: What such debates reveal and how they can be analyzed.
December	Revision	Source based question and map practice  Project work
January	Revision  Pre board	Revision
February	Revision	Revision





**RAMAGYA SCHOOL, NOIDA**  
**ANNUAL CURRICULUM, 2022-23**  
**SUBJECT: POLITICAL SCIENCE**  
**CLASS: XII**

**Prescribed books :**

- 3. NCERT**
- 4. EXAM IDEA**

<b>Month</b>	<b>Chapter number and name</b>	<b>Topic</b>
April	Ch- Challenges of Nation Building Ch- Planned development	Challenges in the eve of independence, process of partition, consequences, Integration of princely states, states reorganization commission. Changing nature of India's Economic Development Planning Commission and Five Year Plans, National

		Development Council, NITI Aayog
May	Ch- The end of Bipolarity.  Ch-New Centres of Power	The soviet system, disintegration of soviet union, causes and consequences of disintegration, shock therapy.  Organizations: European Union, ASEAN, SAARC, BRICS. Nations: Russia, China, Israel, India, Japan and South Korea
July	Ch-India's Foreign Policy  Ch - India's Foreign Policy Continued  Ch- Parties and Party System in India One Party Dominance, Bi-Party System, Multi-Party Coalition System.  Ch- Democratic Resurgence	Principles of Foreign Policy; India's Changing Relations with Other Nations: US, Russia, China, Israel; India's Relations with its Neighbours: Pakistan, Bangladesh, Bhutan, Nepal, Sri Lanka and Myanmar; India's Nuclear Programme.  Political succession after Nehru Non congressism and electoral verdict , One Party Dominance, Bi-Party System, Multi-Party Coalition System  Jaya Prakash Narayan and Total Revolution, Ram Manohar Lohia and Socialism, Pandit Deendayal Upadhyaya and Integral Humanism, National Emergency, Democratic Upsurges – Participation of the Adults, Backwards and Youth.

August	Ch- Contemporary South Asia	Conflicts and efforts for Peace Democratization in South Asia: Pakistan, Nepal, Bangladesh, Sri Lanka, Maldives
	Ch- United Nations and its Organizations  Ch- Security in Contemporary World .	Principal Organs, Key Agencies: UNESCO, UNICEF, WHO, ILO, Security Council and the Need for its Expansion.  Security: Meaning and Type; Terrorism. Traditional and Non traditional notion of security
September	Ch- Regional Aspirations	Rise of regional parties. Punjab Crisis. The Kashmir Issue, Movements for Autonomy.

	Revision of half yearly syllabus	
October	Ch- Indian Politics: Recent Trends and Development	Era of Coalitions, National Front, United Front, United Progressive Alliance (UPA) – I & II, National Democratic Alliance (NDA) I, II, III & IV, Issues of Development and Governance.
November	Ch- Environment and Natural Resources  Ch- Globalization.	Environmental Movements, Global Warming and Climate Change, Conservation of Natural Resources.  Causes & consequences of globalization, India and Globalization, Resistance to Globalization, circumstances leading to Globalization, India's efforts towards Globalization.
December	Revision + pre board	Revision
January	Revision + pre board	Revision
February	Revision	



## **RAMAGYA SCHOOL, NOIDA**

**ANNUAL CURRICULUM, 2023-24**

**SUBJECT: ECONOMICS**

**CLASS: XII**

### **Prescribed Books:**

1. Macro Economics: Sandeep Garg
2. Indian Economic Development: Sandeep Garg

<b>MONTH</b>	<b>CHAPTER NO. &amp; NAME</b>	<b>TOPICS</b>
<b>APRIL</b>	<b>Bridge the Gap</b>  National Income and Related Aggregates	<b>MICRO ECONOMICS</b> <ul style="list-style-type: none"><li>• Basic concepts and related aggregate</li><li>Methods of calculating NI (output method)</li><li>• Methods of calculating NI (Income method &amp; expenditure method)</li></ul>
<b>MAY</b>	  Money and Banking	<ul style="list-style-type: none"><li>• Meaning, supply of money &amp; Money creation by commercial Banks</li><li>• Central Bank: Meaning and Functions</li></ul>
<b>JULY -21</b>	  Development experience (IED)	<ul style="list-style-type: none"><li>• Indian economy on the eve of Independence</li><li>• Five-year plans in India</li></ul>

		<ul style="list-style-type: none"> <li>• Features, problems and policies of Agriculture</li> </ul>
<b>AUGUST - 21</b>	<p>Development experience (IED)</p> <p>Government Budget</p>	<ul style="list-style-type: none"> <li>• Strategy of Industrial growth</li> <li>• India's foreign trade</li> <li>• Economic Reforms</li> <li>• Government Budget</li> </ul>
<b>SEPTEMBER - 6</b>	<b>REVISION &amp; EXAMS</b>	
<b>OCTOBER - 19</b>	<p>Determination of Income and Employment</p> <p>Foreign Exchange Rate</p> <p>BOP</p>	<ul style="list-style-type: none"> <li>• AD &amp; AS approach, Multiplier, Excess and Deficient Demand</li> <li>• Forex</li> <li>• BOP</li> </ul>
<b>NOVEMBER - 17</b>	<p>Current Challenges facing Indian Economy</p>	<ul style="list-style-type: none"> <li>• Human capital formation</li> <li>• Rural development</li> <li>• Employment</li> <li>• Environment and sustainable Development</li> <li>• Development exp. Of India, Pakistan and China</li> </ul>
<b>DECEMBER - 20</b>	<b>REVISION CUM PRE-BOARDS</b>	
<b>JANUARY - 12</b>	<b>REVISION CUM PRE-BOARDS</b>	
<b>FEBRUARY - 21</b>	<b>REVISION</b>	
<b>MARCH</b>	<b>ANNUAL EXAMS</b>	



**RAMAGYA SCHOOL, NOIDA**  
**ANNUAL CURRICULUM 2023-24**  
**SUBJECT: IP**  
**CLASS: XII**

**Prescribed Books:**

1. SUMITA ARORA
- 2.
- 3.

MONTH	CHAPTER NO. & NAME	TOPICS
APRIL	List Manipulation Dictionaries PYTHON PANDAS-I	Creating and accessing list and dictionaries objects.  Creating and accessing Series objects.
MAY	PYTHON PANDAS-I	Creating and accessing DataFrame objects.
ART INTEGRATED PROJECT (I to X)		
JULY	PYTHON PANDAS-II	Iteration and advanced operation on Dataframe Apply functions and handling missing data

		Data Visualization, Library
	<b>PLOTTING WITH PYPLOT</b>	
<b>AUGUST</b>	<b>PLOTTING WITH PYPLOT</b>	Create different charts along with its components
<b>SEPTEMBER</b>	<b>IMPORT EXPORT DATA BETWEEN CSV FILES</b>	<b>How to access .csv file in dataframe and how to put dataframe in .csv</b>
	<b>Unit 4: Societal Impacts</b>	Digital footprint, net and communication etiquettes, <ul style="list-style-type: none"> <li>● Data protection, intellectual property rights (IPR), plagiarism, licensing and copyright,</li> <li>● Free and open source software (FOSS),</li> <li>● Cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act.</li> <li>● E-waste: hazards and management. Awareness about health concerns related to the usage of technology.</li> </ul>
<b>ART INTEGRATED PROJECT (X)</b>		
<b>OCTOBER</b>	<b>MYSQL REVISION TOUR</b>	<b>Revision of MYSQL</b>



	<b>SOCIETAL IMPACTS DATA PROTECTION</b>	<b>Digital footprint, cyber law, e-waste management. Various threats to data</b>
<b>NOVEMBER</b>	<b>MYSQL FUNCTION  INTRODUCTION TO COMPUTER NETWORKS INTRODUCTION TO INTERNET AND WEB</b>	<b>Various functions used in MYSQL  Introduction to network terminologies, types of network, various networking devices. Internet and website related terminologies and protocols.</b>
<b>ART INTEGRATED PROJECT (I to IX)</b>		
<b>DECEMBER</b>	<b>REVISION</b>	
<b>JANUARY</b>	<b>REVISION</b>	
<b>FEBRUARY</b>	<b>REVISION</b>	
<b>MARCH</b>	<b>EXAM</b>	



**RAMAGYA SCHOOL, NOIDA**  
**ANNUAL CURRICULUM, 2023-24**  
**SUBJECT: AI**  
**CLASS: XII**

**Prescribed Books:**

1. Orange Publication
- 2.
- 3.

MONTH	CHAPTER NO. & NAME	TOPICS
APRIL	Unit 1: Capstone Project  Communication Skills-IV*	Understanding the problem <ul style="list-style-type: none"> <li>• Decomposing the problem through DT framework</li> <li>• Analytic Approach</li> <li>• Data Requirements</li> <li>• Data Collection</li> <li>• Modelling approach</li> <li>• How to validate model quality               <ol style="list-style-type: none"> <li>I. By test-train split</li> <li>II. Introduce concept of cross validation</li> </ol> </li> </ul>
MAY	Unit 1: Capstone Project	Metrics of model quality by simple Maths and examples from small datasets – scaled up to capstone project (Apply) RMSE- Root Mean Squared Error MSE – Mean Squared Error MAPE – Mean Absolute Percent Error <ul style="list-style-type: none"> <li>• Introduction to commonly used algorithms and the science behind them</li> </ul>

		<ul style="list-style-type: none"> <li>• Showcase through a compelling story</li> </ul>
<b>ART INTEGRATED PROJECT (I to X)</b>		
<b>JULY</b>	<p>Unit 2: Model lifecycle (Knowledge)</p> <p>Student Project Work</p> <p>Unit 2: Self-management Skills-IV</p>	<p>Different aspects of Model</p> <p>Train, test, validate,</p> <p>What are hyper parameters</p> <p>Commonly used platforms to build and run models (Introduction)</p> <p>Recommended tools</p> <p>Links to different platforms o Watson</p> <ul style="list-style-type: none"> <li>• Lifecycle of an AI model</li> </ul> <p>Build</p> <p>Deploy</p> <p>Retrain</p> <p>Student capstone project development</p> <ul style="list-style-type: none"> <li>• Students to form teams and work on developing an AI based project</li> <li>• Resources like the AI Project Guide and AI Project Logbook to be used</li> </ul>
<b>AUGUST</b>	<p>Unit 2: Model lifecycle (Knowledge)</p>	<p>Different aspects of Model</p> <p>Train, test, validate,</p> <p>What are hyper parameters</p> <p>Commonly used platforms to build and run models (Introduction)</p> <p>Recommended tools</p> <p>Links to different platforms o Watson</p>



	Unit 4: Entrepreneurial Skills-IV	
<b>ART INTEGRATED PROJECT (X)</b>		
<b>NOVEMBER</b>	Unit 3: Storytelling through data (Critical and Creative thinkingSkills)	<p>Types of Data and Suitable Charts</p> <ul style="list-style-type: none"> <li>o Text [Word clouds]</li> <li>o Mixed [Facet Grids]</li> <li>o Numeric [Line Charts/ Bar Charts]</li> <li>o Stocks [Candlestick Charts]</li> <li>o Geographic [Maps]</li> <li>• Stories During the Steps of Predictive Modeling</li> <li>o Data Exploration o Feature Visualizing o Model Creation</li> <li>o Model Comparisons</li> <li>• Best Practices of Storytelling</li> <li>• Reference Material /Online Resources: <ul style="list-style-type: none"> <li>o Analytics Vidhya (<a href="https://www.analyticsvidhya.com/blog/2020/05/artstorytelling-analytics-data-science/">https://www.analyticsvidhya.com/blog/2020/05/artstorytelling-analytics-data-science/</a>)</li> <li>o Udemy: (<a href="https://www.udemy.com/course/tell-a-story-with-data/">https://www.udemy.com/course/tell-a-story-with-data/</a>)</li> <li>o Coursera: (<a href="https://www.coursera.org/learn/intro-business-analytics">https://www.coursera.org/learn/intro-business-analytics</a>)</li> <li>o Coursera: (<a href="https://www.coursera.org/learn/communicate-withimpact">https://www.coursera.org/learn/communicate-withimpact</a>)</li> </ul> </li> </ul> <p>SUBMISSION OF FINAL PROJECT</p> <p>Student Project Work</p>

	Unit 5: Green Skills-IV*	
<b>DECEMBER</b>	<b>REVISION</b>	<b>REVISION</b>
<b>ART INTEGRATED PROJECT (I to IX)</b>		
<b>JANUARY</b>	<b>REVISION+PRACTICAL</b>	<b>REVISION+PRACTICAL</b>
<b>FEBRUARY</b>	<b>REVISION</b>	<b>REVISION</b>



## RAMAGYA SCHOOL, NOIDA

### TERM WISE ANNUAL CURRICULUM, 2023-24

**SUBJECT: PSYCHOLOGY**

**CLASS: XII**

#### Prescribed Books:

1. NCERT XII CLASS

MONTH	CHAPTER NO. & NAME	TOPICS
APRIL	1. Variations in Psychological Attributes	<ul style="list-style-type: none"><li>• Introduction</li><li>• Individual Differences in Human Functioning</li><li>• Assessment of Psychological Attributes</li><li>• Intelligence</li><li>• Psychometric Theories of Intelligence, Information Processing Theory:<ul style="list-style-type: none"><li>• Planning, Attention-arousal and Simultaneous successive Model of Intelligence,</li></ul></li><li>• Triarchic Theory of Intelligence</li></ul>

		<ul style="list-style-type: none"> <li>• Theory of Multiple Intelligences.</li> <li>• Individual Differences in Intelligence</li> <li>• Culture and Intelligence</li> <li>• Emotional Intelligence</li> <li>• Special Abilities: Aptitude: Nature and Measurement</li> <li>• Creativity</li> </ul>
<b>MAY</b>	<b>2. Self and Personality</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Self and Personality</li> <li>• Concept of Self</li> <li>• Cognitive and Behavioural aspects of Self</li> <li>• Culture and Self</li> <li>• Concept of Personality</li> <li>• Major Approaches to the Study of Personality Type Approaches</li> <li>• Trait Approaches</li> <li>• Psychodynamic Approach and Post Freudian</li> <li>• Approaches Behavioural Approach</li> <li>• Cultural Approach</li> <li>• Humanistic Approach</li> <li>• Assessment of Personality</li> <li>• Self-report Measures</li> <li>• Projective Techniques</li> <li>• Behavioural Analysis</li> </ul>
<b>JULY (21)</b>	<b>3. Meeting Life Challenges</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Nature, Types and Sources of Stress</li> <li>• Effects of Stress on Psychological Functioning and Health Stress and Health</li> <li>• General Adaptation Syndrome</li> <li>• Stress and Immune System</li> <li>• Lifestyle</li> <li>• Coping with Stress</li> <li>• Stress Management Techniques</li> <li>• Promoting Positive Health and Well-being</li> </ul>



		<ul style="list-style-type: none"> <li>• Life Skills</li> <li>• Positive Health</li> </ul>
<b>AUGUST</b>	<b>4. Psychological Disorders</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Concepts of Abnormality and Psychological Disorders</li> <li>• Historical Background</li> <li>• Classification of Psychological Disorders</li> <li>• Factors Underlying Abnormal Behaviour</li> <li>• Major Psychological Disorders</li> <li>• Anxiety Disorders</li> <li>• Obsessive-Compulsive and Related Disorders</li> <li>• Trauma-and Stressor-Related Disorders</li> <li>• Somatic Symptom and Related Disorders</li> <li>• Dissociative Disorders</li> <li>• Depressive Disorder Bipolar and Related Disorders Schizophrenia Spectrum and Other Psychotic</li> <li>• Disorders Neuro-developmental Disorders</li> <li>• Disruptive, Impulse-Control and Conduct Disorders</li> <li>• Feeding and Eating Disorders</li> <li>• Substance Related and Addictive Disorders</li> </ul>
<b>SEPTEMBER</b>	<b>5. Therapeutic Approaches</b>	<ul style="list-style-type: none"> <li>• Nature and Process of psychotherapy</li> <li>• Therapeutic relationship</li> <li>• Types of Therapies</li> <li>• Behaviour Therapy</li> <li>• Cognitive Therapy</li> <li>• Humanistic-Existential Therapy</li> <li>• Alternative Therapies</li> </ul>

<b>OCTOBER</b>	<b>6. Attitude and Social Cognition</b>	<ul style="list-style-type: none"> <li>• Factors contributing to healing in Psychotherapy</li> <li>• Ethics in Psychotherapy</li> <li>• Rehabilitation of the Mentally ill</li>   <li>• Introduction</li> <li>• Explaining Social Behaviour</li> <li>• Nature and Components of Attitudes</li> <li>• Attitude Formation and Change Attitude Formation</li> <li>• Attitude Change</li> <li>• Attitude-Behaviour Relationship</li> <li>• Prejudice and Discrimination</li> <li>• Strategies for Handling Prejudice</li> </ul>
<b>NOVEMBER</b>	<b>7. Social Influence and Group Processes</b>  <b>Revision</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Nature and Formation of Groups</li> <li>• Type of Groups</li> <li>• Influence of Group on Individual Behaviour Social Loafing</li> <li>• Group Polarisation</li> </ul>
<b>DECEMBER</b>	<b>Revision</b>	
<b>JANUARY</b>	<b>Revision</b>	
<b>FEBRUARY</b>	<b>Revision</b>	

<b>MARCH</b>	<b>Annual exams</b>	
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**RAMAGYA SCHOOL, NOIDA**  
**TERM WISE ANNUAL CURRICULUM, 2023-24**  
**SUBJECT: PHYSICAL EDUCATION**  
**CLASS: XII**

**Prescribed Books:**

1. Health and Physical Education (by New Saraswati House)

MONTH	CHAPTER NO. & NAME	TOPICS
APRIL	<ul style="list-style-type: none"><li>• <b>CHAPTER 1</b> <b>Management of sporting events</b></li></ul>	<ul style="list-style-type: none"><li>• Functions of Sports Management Events (Planning, Organising, Staffing, Directing &amp; Controlling.</li><li>• Various Committees &amp; their Responsibilities (pre; during &amp; post)</li><li>• Fixtures and its Procedure -- Knock-Out (Bye &amp; Seeding) &amp; League (Staircase &amp; Cyclic, tabular method) and combination tournaments.</li><li>• Intramural and extra mural tournaments- Meaning , objectives and its significance</li><li>• Community sports program(Sports Day, health run, Run for fun, Run for specific causes and Run for unity</li></ul>

<p><b>MAY</b></p>	<p>➤ <b>CHAPTER 2</b> <b>Children and women in sports</b></p> <p>➤ <b>CHAPTER 4</b> <b>Physical Education &amp; Sports for CWSN (Children With Special Needs - Divyang)</b></p>	<ul style="list-style-type: none"> <li>• Exercise guidelines of WHO for different age groups</li> <li>• Common Postural and their respective corrective measures.</li> <li>• Women’s participation in sports –Physical, Psychological and social benefits</li> <li>• Special consideration (Menarche &amp; Menstrual Dysfunction)</li> <li>• Female Athletes Triad (Osteoporosis, Amenorrhea, Eating Disorders)</li>   <li>• Organizations promoting Disability Sports ( Special Olympics ; Paralympics ; Deaflympics )</li> <li>• Concept of classification and Divisioning in sports</li> <li>• Concept of Inclusion in sports, its need and implementation</li> <li>• Advantages of Physical Activities for children with special needs.</li> <li>• Strategies to make Physical Activities assessable for children with special needs.</li> </ul>
<p><b>JULY</b></p>	<p>➤ <b>CHAPTER 5</b> <b>Sports &amp; Nutrition</b></p>	<ul style="list-style-type: none"> <li>• Concept of Balanced Diet &amp; Nutrition\</li> <li>• Macro &amp; Micro Nutrients: Food sources &amp; functions</li> <li>• Nutritive &amp; Non-Nutritive Components Of Diet</li> <li>• Eating for weight control- A healthy weight, the pitfalls of dieting, food intolerance and food myths.</li> <li>• Importance of diet in sports- Pre, during and post competition requirements</li> </ul>

	<p>➤ <b>CHAPTER 6</b> <b>Test &amp; Measurement in Sports</b></p>	<ul style="list-style-type: none"> <li>• Fitness Test- SAI Khelo India Fitness Test in School</li> </ul> <p>For age group 5-8 years/class 1-3</p> <p>For age group 9-18 yrs/class 4-12</p> <ul style="list-style-type: none"> <li>• Measurement of cardiovascular fitness-Harward Step test- Duration of the exercise in seconds x 100/5.5 x pulse count of 1 -1.5min after exercise</li> <li>• Computing Basal Metabolic Rate (BMR)</li> <li>• Rikli &amp; Jones - Senior Citizen Fitness Test</li> <li>• Johnsen- Methney Test of Motor Educabilty(Front roll, Roll, Jumping Half turn, Jumping full turn)</li> </ul>
<p><b>AUGUST</b></p>	<p>➤ <b>CHAPTER 7</b> <b>Physiology &amp; Injuries in Sports</b></p>	<ul style="list-style-type: none"> <li>• Physiological factor determining component of Physical Fitness</li> <li>• Effect of exercise on Muscular System</li> <li>• Effect of exercise on Cardio Respiratory System</li> <li>• Physiological changes due to ageing</li> <li>• Sports injuries: classification( soft tissue injuries-Abrasion, contusion, Laceration, incision ,Sprain&amp; strain; Bone &amp; joint injuries- dislocation, Fractures- Green Stick , comminuted, traverse, oblique&amp; impacted</li> </ul>

	<p>➤ <b>CHAPTER 9</b></p> <p><b>Psychology and sports</b></p>	<ul style="list-style-type: none"> <li>• Personality; its definition &amp; types</li> <li>• Motivation, its types and techniques</li> <li>• Exercise adherence, Reasons, benefits and strategies for enhancing it.</li> <li>• Meaning, Concept &amp; Types of Aggressions in Sports</li> <li>• Psychological Attributes in sports – self esteem mental imagery , self talk , goal setting</li> </ul>
<b>SEPTEMBER</b>	<b>MID TERM EXAMS</b>	<b>REVISION</b>
<b>OCTOBER</b>	<p>➤ <b>CHAPTER 3</b></p> <p><b>Yoga as preventive measure for lifestyle diseases</b></p>	<ul style="list-style-type: none"> <li>• <b>Obesity</b> :Procedures ,benefits and contraindications for tadaasana , ,katichakrasana , pavanmuktasana , matsayasana, halasana ,paschimotanasana, ardha – matsyendrasana , dhanurasana, ushtrasana, suryabhedan pranayama</li> <li>• <b>Diabetes</b>: Procedure, benefits &amp; contraindication for katichakrasana, pavanmuktasana, bhujangasana,bhujangasana,shalbhasana,dhanurasana , suptavajrasana , paschimotanasana, ardhamatseyendrasana, mandukasana,gomukhasana, ushtrasana,kapalbhati, yogmudra.</li> <li>• <b>Asthama</b> : Procedure, benefits &amp; contraindication for bhujangasana, ushtrasana, gomukhasana, dhanurasana , kapalbhati ,tadasana, uttanmandukasana ,anulom vilom, matsyasana. Urdhwahastottanasana, vakrasana</li> <li>• <b>Hypertension</b>: Procedure, benefits &amp; contraindication for tadasana,katichakrasana, uttanpadasana, ardhahalasana, saralamatyasana, gomukhasana, uttanmandukasana, vakrasana, bhujangasana, makarasana, shavasana, nadishodhan pranayama, sheetli pranayama.</li> <li>• <b>Back Pain</b>: Procedure, benefits &amp; contraindication of vakrasana bhadrasana,tadasana,urdhawahastootanasana, bhujangasana,ardh –chakrasana,ushtrasana, makarasana,sarala matyseyendraasan,gomukhasana,Nadishodhnpranayam</li> </ul>

	<p>➤ <b>CHAPTER 8</b></p> <p><b>Biomechanics in sports</b></p>	<ul style="list-style-type: none"> <li>• Newton's law of motion and its application in sports.</li> <li>• Types of levers and their application in sports</li> <li>• Equilibrium – dynamic &amp; static and centre of gravity and its application n sports</li> <li>• Friction &amp; Sports</li> <li>• Projectile in sports</li> </ul>
<b>NOVEMBER</b>	<p>➤ <b>CHAPTER 10</b></p> <p><b>Training in sports</b></p>	<ul style="list-style-type: none"> <li>• Concept of talent identification and talent development in sports</li> <li>• Introduction to sports training cycle – micro cycle, meso cycle, macro cycle.</li> <li>• Types &amp; method to develop – strength, endurance and speed.</li> <li>• Types &amp; method to develop – flexibility and coordinative ability</li> <li>• Circuit Training-Introduction and its importance</li> </ul>
<b>DECEMBER</b>	<b>2<sup>ND</sup> PRE BOARD EXAMS</b>	<b>REVISION</b>
<b>JANUARY</b>	<b>REVISION</b>	<b>REVISION</b>
<b>FEBRUARY</b>	<b>BOARD EXAMS</b>	-
<b>MARCH</b>	<b>BOARD EXAMS</b>	-





**RAMAGYA SCHOOL, NOIDA**  
**TERM WISE ANNUAL CURRICULUM, 2023-24**  
**SUBJECT: PAINTING**  
**CLASS: XII**

**Prescribed Books:**

1. History of Indian art
- 2.
- 3.

MONTH	CHAPTER NO. & NAME	TOPICS
APRIL	Theory- <ul style="list-style-type: none"><li>• Introduction of Indian Miniature art</li><li>• Rajasthani school of painting</li></ul> Practical –	Meaning , Origin & development , characteristics , paintings related to Rajasthani school

	<ul style="list-style-type: none"> <li>• Still life</li> </ul>	
<b>MAY</b>	<p>Theory-</p> <ul style="list-style-type: none"> <li>• Pahari school</li> <li>• Mughal school</li> </ul> <p>Practical-</p> <p>Still life composition</p>	Origin & development , characteristics , paintings related to Pahari school
<b>JULY</b>	<p>Theory-</p> <ul style="list-style-type: none"> <li>• Deccan school of painting</li> </ul> <p>Practical –</p> <p>Nature study</p>	Introduction , Origin & development , characteristics , paintings related to schools.
<b>AUGUST</b>	<p>Theory-</p> <ul style="list-style-type: none"> <li>• Bengal school of painting</li> <li>• Evolution of the Indian National Flag</li> </ul> <p>Practical –</p> <p>Landscape</p>	Origin & development , characteristics , paintings related to school
<b>SEPTEMBER</b>	<p>Theory-</p> <p>Revision</p> <p>Practical – landscape</p>	Revise all the previous topic

<b>OCTOBER</b>	Theory- Modern trends in Indian art Practical- <ul style="list-style-type: none"> <li>• Composition</li> </ul>	Discuss about new trend Techniques used by Indian artist in 20 <sup>th</sup> century.
<b>NOVEMBER</b>	Theory- <ul style="list-style-type: none"> <li>• Revision</li> </ul> Practical – Extra drawing , sketching , life study etc.	Revision
<b>DECEMBER</b>	Revision	Revision
<b>JANUARY</b>	Revision	Revision
<b>FEBRUARY</b>		
<b>MARCH</b>		



## **RAMAGYA SCHOOL, NOIDA**

### **TERM WISE ANNUAL CURRICULUM, 2023-24**

#### **SUBJECT: HINDUSTANI MUSIC**

#### **CLASS: XII**

#### **Prescribed Books:**

1. Sangeet Manjusha

<b>MONTH</b>	<b>CHAPTER NO. &amp; NAME</b>	<b>TOPICS</b>
<b>APRIL</b>	<ol style="list-style-type: none"><li>1. Brief study of kan, meend Alankar.</li><li>2. Raag Bhairav</li></ol>	<ol style="list-style-type: none"><li>1. Definitions of kan meend and Alankar</li><li>2. Raag Bhairav- Raag Parichay with aaroh avroh Pakad and vilambit Khayal</li></ol>
<b>MAY</b>	<ol style="list-style-type: none"><li>1. Raag Bhairav</li><li>2. Brief study of following khatka Murki gamak</li></ol>	<ol style="list-style-type: none"><li>1. Raag Bhairav- vilambit Khyal with alaap, taan and drut Khayal with alaap, taan.</li><li>2. Definition of khatka murki and gamak</li></ol>
<b>JULY</b>	<ol style="list-style-type: none"><li>1. Historical development of time theory of Raga (raag samay sidhant )</li><li>2. Rupak Taal</li></ol>	<ol style="list-style-type: none"><li>1. Raag Samay Siddhant- timing of Raga through Swara, Vadi samvadi, Komal Shuddh Swar and seasonal Raag.</li><li>2. Rupak Taal - Taal Parichay with notation of tha duguna and chagun on hand beat.</li></ol>

<b>UGUST</b>	<ol style="list-style-type: none"> <li>1. Detail study of Sangeet Ratnakar and Sangeet Parijat.</li> <li>2. Raag bageshri</li> </ol>	<ol style="list-style-type: none"> <li>1. Detail study of Sangeet Ratnakar and Sangeet Parijat.</li> <li>2. Raag bageshri -Raag Parichay with aaroh avroh Pakad and drut Khayal</li> </ol>
<b>SEPTEMBER</b>	<ol style="list-style-type: none"> <li>1. Raag Bageshri</li> </ol>	<ol style="list-style-type: none"> <li>1. Practice of Raag Bhagyashree with alaap and taan</li> </ol>
<b>OCTOBER</b>	<ol style="list-style-type: none"> <li>1. Life Life sketch and contribution of Fayaz Khan,Bade Ghulam Ali and Krishna Rao Shankar Pandit</li> <li>2. Jhapataal</li> </ol>	<ol style="list-style-type: none"> <li>1. Life Life sketch and contribution of Fayaz Khan,Bade Ghulam Ali and Krishna Rao Shankar Pandit</li> <li>2. Jhapataal - Taal Parichay with notation of thah dugun chaukan on hand beat.</li> </ol>
<b>NOVEMBER</b>	<ol style="list-style-type: none"> <li>1. Raag malkons</li> </ol>	<ol style="list-style-type: none"> <li>1. Raag malkons- Raag Parichay with aaroh avroh Pakad. Vilambit Khayal and drut khayal with alaap taan.</li> </ol>
<b>DECEMBER</b>	<ol style="list-style-type: none"> <li>1. Dhamaar</li> <li>2. Tuning of Tanpura</li> </ol>	<ol style="list-style-type: none"> <li>1. Dhamaar - dhamaar in Raag Bhairav with different lakari thah, dugun and chaugun.</li> <li>2. Tuning of Tanpura.</li> </ol>
<b>JANUARY</b>	Revision	Revision
<b>FEBRUARY</b>	Revision	
<b>MARCH</b>		



## RAMAGYA SCHOOL, NOIDA

**TERM WISE ANNUAL CURRICULUM, 2023-24**

**SUBJECT: SOCIOLOGY**

**CLASS: XII**

### Prescribed Books:

1. Indian Society(NCERT)
2. change and development of Indian society(NCERT)
- 3.

MONTH & NO. OF DAYS	CHAPTER NO. & NAME	TOPICS
APRIL	<b>Unit-1: Introducing Indian Society</b> <b>Unit-2: The Demographic Structure of the Indian Society</b>	<ul style="list-style-type: none"><li>• Colonialism</li><li>• Nationalism</li><li>• Class and Community</li><li>• Theories</li><li>• Population Policy</li></ul>
MAY	<b>Unit-3: Social Institutions: Continuity and Change</b>	<ul style="list-style-type: none"><li>• Caste and Caste System</li><li>• Tribal Communities</li><li>• Family and Kinship</li></ul>

<b>JULY</b>	<b>Unit-5: Patterns of Social Inequality and Exclusion</b>	<ul style="list-style-type: none"> <li>• Social Inequality and Exclusion</li> <li>• Struggle of Women</li> <li>• Struggle of Differently abled</li> </ul>
<b>AUGUST</b>	<b>Unit-6: The Challenges of Cultural Diversity</b>	<ul style="list-style-type: none"> <li>• Cultural Communities and nation state</li> <li>• Regionalism</li> <li>• Communalism</li> <li>• Secularism</li> </ul>
<b>SEPTEMBER</b>	Unit-8: Structural Change	<ul style="list-style-type: none"> <li>• <b>Colonialism</b></li> <li>• <b>Industrialization</b></li> <li>• <b>Urbanization</b></li> </ul>
<b>OCTOBER</b>	<b>Unit-9: Cultural Change</b>	<ul style="list-style-type: none"> <li>• <b>Social Reform Movements</b></li> <li>• <b>Sanskritization</b></li> <li>• <b>Westernization</b></li> <li>• <b>Modernization</b></li> </ul>
<b>NOVEMBER</b>	<b>Unit-11: Change and Development in Rural Society</b>	<ul style="list-style-type: none"> <li>• <b>Agrarian Structure</b></li> <li>• <b>Green Revolution</b></li> <li>• <b>Circulation of Labour</b></li> </ul>
<b>DECEMBER</b>	<b>Unit-12: Change and Development in Industrial Society</b>	<ul style="list-style-type: none"> <li>• <b>Planned Industrialization to Liberalization</b></li> <li>• <b>Work Processes</b></li> </ul>
<b>JANUARY</b>	<b>Unit-15: Social Movements</b>	<ul style="list-style-type: none"> <li>• <b>Concept</b></li> <li>• <b>Theories and Classification</b></li> <li>• <b>Movements</b></li> </ul>
<b>FEBRUARY</b>	<b>Revision</b>	<b>For Boards</b>



**RAMAGYA SCHOOL, NOIDA**  
**ANNUAL CURRICULUM, 2023-24**  
**SUBJECT: MATHEMATICS**  
**CLASS: XII**

**Prescribed Books:**

5. NCERT PART I and II
6. NCERT EXEMPLAR

MONTH	CHAPTER NO. & NAME	TOPICS
APRIL	Chapter-3 Matrices	<ul style="list-style-type: none"><li>• Introduction of Matrix</li><li>• Types of matrices</li><li>• Operations on matrices</li><li>• Transpose of matrix</li><li>• Symmetric and skew symmetric matrices</li></ul>
	Chapter-4 Determinants	<ul style="list-style-type: none"><li>• Introduction</li><li>• Determinant</li><li>• Area of a triangle</li><li>• Minors and Cofactors</li><li>• Adjoint and Inverse of a matrix</li><li>• Applications of determinants and matrices</li></ul>
MAY	Chapter-2 Inverse Trigonometric Functions	<ul style="list-style-type: none"><li>• Introduction</li><li>• Basic concepts</li></ul>



	Chapter-5 Continuity & Differentiability	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Exponential and Logarithmic Functions</li> <li>• Logarithmic Differentiation</li> <li>• Derivatives of functions in parametric forms</li> <li>• Continuity</li> <li>• Differentiability</li> <li>• Second order derivative</li> </ul>
<b>JULY</b>	Chapter-1 Relations & Functions	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Types of Relations</li> <li>• Types of functions</li> </ul>
	Chapter-6 Application of Derivative	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Increasing and decreasing functions</li> <li>• Tangents and Normals</li> <li>• Maxima and Minima</li> </ul>
<b>AUGUST</b>	Chapter-7 Integration	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Integration as an inverse process of differentiation</li> <li>• Methods of Integration</li> <li>• Integrals of some particular functions</li> <li>• Integration by partial fractions</li> <li>• Integration by parts</li> <li>• Definite Integral</li> <li>• Fundamental Theorem of calculus</li> <li>• Evaluation of definite integrals by substitution</li> <li>• Some properties of definite Integrals</li> </ul>

	Chapter-8 Application of Integration	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Area under simple curves</li> </ul>
<b>SEPTEMBER</b>	Revision	<ul style="list-style-type: none"> <li>•</li> </ul>
<b>OCTOBER</b>	Chapter-9 Differential Equation	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Basic Concepts</li> <li>• General and particular solutions of a differential equation</li> <li>• Methods of solving first order, first degree differential equation</li> </ul>
	Chapter-13 Probability	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Conditional probability</li> <li>• Multiplication theorem on probability &amp; Independent events</li> <li>• Bayes' theorem</li> <li>• Random variables and its prob.</li> </ul>

	Chapter-12 Linear programming Problems	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Linear programming problem</li> <li>• Different types of linear programming problems</li> </ul>
<b>NOVEMBER</b>	Chapter-10 Vectors	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Some Basic Concepts</li> <li>• Types of vectors</li> <li>• Addition of vectors</li> <li>• Multiplication of a vector by a scalar product of two vectors</li> </ul>
	Chapter-11 Three dimensional Geometry	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Direction Cosines and Direction Ratios of a line</li> <li>• Equation of a line in Space</li> <li>• Shortest distance between two lines</li> <li>• Co planarity of two lines</li> <li>• Distance of a point from a plane</li> </ul>
<b>DECEMBER</b>	Revision	
<b>JANUARY</b>	Revision	
<b>FEBRUARY</b>	Revision	



**RAMAGYA SCHOOL, NOIDA**  
**ANNUAL CURRICULUM, 2023-24**  
**SUBJECT: APPLIED MATHEMATICS(241)**  
**CLASS: XII**

**Prescribed Books:**

1. MATHEMATICS BY M. L. AGGARWAL
2. MATHEMATICS BY R. D. SHARMA

MONTH	UNIT NO. & NAME	TOPICS
APRIL	<b>Chapter-3 Matrices</b> <b>Chapter-4 Determinants</b>	Matrices and types of matrices Equality of matrices Transpose of a matrix Symmetric and skew-symmetric matrix Algebra of matrices Determinants Inverse of a matrix Solving system of simultaneous linear equations using matrix method and Cramer's rule.
MAY	<b>Chapter-2 Numerical Inequalities</b>	Numerical inequalities Higher order derivatives

	<b>Chapter-5 Differentiation</b>	Application of derivatives Marginal cost and Marginal Revenue using derivatives
<b>JULY</b>	<b>Chapter-6 Application of Derivatives</b>	Increasing/decreasing functions Maxima and Minima
	<b>Chapter-1 Numbers, Quantification &amp; Numerical Applications</b>	
<b>AUGUST</b>	<b>Chapter-7 Integrals</b>	Integration Indefinite integrals as a family of curves Definite integrals as area under the curve Application of integration
	<b>Chapter-10 Inferential Statistics</b>	Population and Sample Parameter, Statistics and statistical inferences t-Test (one sample t-test and two independent groups t-test)
	<b>Chapter-11 Index- Numbers and Time- Based data</b>	Time Series Components of Time Series Time Series analysis for univariate data Secular Trend Methods of Measuring Trend

<b>SEPTEMBER</b>	<b>Revision</b>	
<b>OCTOBER</b>	<b>Chapter-12 Perpetuity, Sinking Funds &amp; EMI</b>  <b>Chapter-14 Returns, Growth &amp; Depreciation</b>	Perpetuity Sinking Funds Calculation of EMI  Calculation of Returns Nominal Rate of Return Compound Annual Growth Rate Linear method of depreciation
<b>NOVEMBER</b>	<b>Chapter-8 Differential Equations</b>  <b>Chapter-9 Probability</b>  <b>Chapter-15 Linear Programming</b>	Differential equations Formulation and solution of differential equations Application of differential equations  Probability Distribution Mathematical Expectation Variance Binomial Distribution Poisson Distribution Normal Distribution  Introduction and related terminology Mathematical formulation of LPP Different types of LPPs Graphical solution of LPP Feasible and optimal solution of a LPP

<b>DECEMBER</b>
<b>JANUARY</b>
<b>FEBRUARY</b>
<b>MARCH</b>