Academic Session 2024-2025

Month-Wise Split-up Syllabus for class XI Subject: English Core

MONTH	No. of worki ng Days	Hornbill	Snapshots	Writing skills Grammar	Remarks
April	23				
May June	03	The Portrait of a lady A Photograph		Classified Advertisement s	
July	25	We are not afraid to die if we can all be together The Laburnum Top	The Summer of a beautiful white horse	Posters Speech Writing Tenses Clauses Note Making & Summarizing	Syllabus for PT-1 All lessons, poems and topics completed till July 2024.
August	25	Voice of the rain Discovering Tut: the saga continues	The Address	Debate Writing Speech Writing Reordering Sentences	
Septembe r	22	Revision for HY/PT-2 Childhood The Adventure	Revision for HY/PT-2	Advertisement s Posters Tenses Transformatio n of Sentences	Syllabus for HY/PT-2: All lessons, poems and topics completed till 31 August 2024
October	10	Father to Son	Mother's Day	Integrated Grammar Practice	
November	24	Silk Road	Birth	Debate Writing Speech Writing IGP	
December	15	Discussion & Debates on current issues	The tale of a melon city	Classified Advertisement s Reading Comprehensio n	
January	22	Revision for PT-3 ASL Project Work	Revision for PT-3 ASL Project Work	Posters Note Making & Summarizing	Syllabus for PT-3 All lessons, poems and topics completed in Sept, Oct, Nov & Dec 2024

				Debates on	
				Contemporary	
				issues	
February	23	ASL &	ASL &	Revision	
		Revision Viva	Revision		
			Viva		
March		Annual	Annual	Annual	
		Exams	Exams	Exams	

Academic Session 2024-2025

Month-Wise Split-up Syllabus for class XI Class: XI Subject: MATHEMATICS (041)

Sr. No.	Month	No. of working days	Unit/ Chapter/ Topics	Examination
1	June	10	1. Sets	
$\frac{1}{2}$	July	25	2. Relations & Functions	PT – I
4	July	23	2. Relations & Functions	(Syllabus- Lessons -
			3. Trigonometric Functions	1, 2 & 3)
3	August	25	4. Complex Numbers and	
	_		Quadratic	
			Equations	
			_	
			5. Linear Inequalities	
4	September	25	6. Permutations and	
	_		Combinations	PT – II/Half Yearly
				(Lessons 1 to 7)
			7. Binomial Theorem	,
5	October	10	8. Sequence and Series	Diwali Break (10
			-	days)
6	November	24	SUPPLEMENTARY MATERIAL	<i>3</i> /
			(Chapter - 8)	
			** Infinite C.D. and its Com	
			** Infinite G.P. and its Sum	
			O Straight Lines	
			9. Straight Lines	
7	December	15	10. Conic Sections	Winter Break (11
'	December	13	10. Come Sections	days)
			11. Introduction to Three-	daysj
			dimensional	
			Geometry	
8	January	22	12. Limits and Derivatives	PT – III
	January	22	12. Dimits and Delivatives	(Lessons - 8, 9, 10 &
			SUPPLEMENTARY MATERIAL	11)
			(Chapter - 12)	11)
			· - ·	
			** Limits Involving Exponential	
			and Logarithmic Functions	
			13. Statistics	
	D 1	0.0	44.5.1.1111	
9	February	23	14. Probability	
10	3.5		Revision for Annual Exam - 2024	4 15
10	March			Annual Exam

Academic Session 2024-2025 Month-Wise Split-up Syllabus for class XI Split UP Syllabus for Session 2024-25

Class XI Subject: Physics

Sr. No.	Month	No. of Teaching days	Chapter No.	Name of Chapter	Examination & portion for Exam
1	June	10	1	Unit, Measurement & Dimensions	
2	July	25	2&3	2. Motion in StraightLine3.Motion in Plane	PT-1 (Chapter 1 to 2)
3	August	25	4&5	4. Laws of Motion 5. Work Energy & Power	
4	September	22	6	6. System of Particles & Rotational Motion	Half Yearly Examinations (Chapter 1 to 5)
5	October	10	7	7. Gravitation	
6	November	24	8.9 &10	8. Mechanical Properties of solid9. Mechanical Properties of Fluids10. Thermal Properties of Matter	
7	December	15	11 &12	11. Thermodynamics12. Kinetic Theroy ofGases	
8	January	22	13 &14	13. Oscillation 14.Wave Motion	PT -2 (Chapter 6 to 9)
9	February	23		Revision	
10	March			Annual Examination	

ATOMIC ENERGY EDUCATION SOCIETY, MUMBAI Month-wise Split up of Syllabus for 2024-25

Class: XI Subject: Chemistry

Class	Class: XI			ubject: Chemistry
S. No.	Month	rki	Chapters/Lessons/Unit to be taught in that month	Examination and Portion for the Exam
1	July & August	o c e n p fi c L c a n it c n H c c A H s	Unit I: Some Basic Concepts of Chemistry General Introduction: Importance and scope of Chemistry. Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry. Unit II: Structure of Atom Discovery of Electron, Proton and Neutron, atomic number, isotopes and isobars. Thomson's model and its limitations. Rutherford's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p and dorbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled orbitals.	1. Unit Test 1 (September): Unit I & Unit II
2	Septembe r	iii S d d la p r e e e L S V b d c iii	Init III: Classification of Elements and Periodicity n Properties Significance of classification, brief history of the development of periodic table, modern periodic aw and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100. Unit IV: Chemical Bonding and Molecular Structure Valence electrons, ionic bond, covalent bond, cond parameters, Lewis's structure, polar character of covalent bond, covalent character of onic bond, valence bond theory, resonance, geometry of covalent molecules,	2. Half Yearly Exam

	T		T
		Unit IV: Chemical Bonding and Molecular	(November last
		Structure	Week):
		VSEPR theory, concept of hybridization, involving	
		s, p and d orbitals and shapes of some simple	Units I, II, III, IV,
		molecules, molecular orbital theory of	VI,VIII
		homonuclear diatomic molecules (qualitative idea	3. Unit Test 2
		only), Hydrogen bond.	(January):
		<u>Unit VI: Chemical Thermodynamics</u>	Units XII, XIII
		Concepts of System and types of systems,	
		surroundings, work, heat, energy, extensive and	4. Pre-Annual
		intensive properties, state functions. First law of	Exam
3	October	thermodynamics -internal energy and enthalpy,	(March first
		heat capacity and specific heat, measurement of	week):
		ΔU and ΔH, Hess's law of constant heat	Complete
		summation, enthalpy of bond dissociation,	Syllabus
		combustion, formation, atomization, sublimation,	5. Annual Exam
		phase transition, ionization, solution and dilution.	(March Last
		Second law of Thermodynamics (brief	Week):
		introduction) Introduction of entropy as a state	Complete
		function, Gibb's energy change for spontaneous	Syllabus
		and non- spontaneous processes, criteria for	
		equilibrium. Third law of thermodynamics (brief	
		introduction).	_
		Unit VIII: Redox Reactions	
		Concept of oxidation and reduction, redox	
		reactions, oxidation number, balancing redox	
		reactions, in terms of loss and gain of electrons	
		and change in oxidation number, applications of	
		redox reactions.	
		Unit XII: Organic Chemistry -Some Basic Principles	
		and Techniques	
4	November	General introduction, methods of purification,	
		qualitative and quantitative analysis, classification	
		and IUPAC nomenclature of organic compounds.	
		Electronic displacements in a covalent bond:	
		inductive effect, electromeric effect, resonance	
		and hyper conjugation. Homolytic and heterolytic	
		fission of a covalent bond: free radicals,	
		carbocations, carbanions, electrophiles and	
		nucleophiles, types of organic reactions.	-
		Unit XIII: Hydrocarbons	
		Classification of Hydrocarbons	
		Aliphatic Hydrocarbons: Alkanes - Nomenclature,	
		isomerism, conformation (ethane only), physical	
		properties, chemical reactions including free	
5	December	radical mechanism of halogenation, combustion	
		and pyrolysis. Alkenes - Nomenclature, the	
		structure of double bond (ethene), geometrical	
1		isomerism, physical properties, methods of preparation, chemical reactions: addition of	
		hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and perovide offeet)	
		(Markovnikov's addition and peroxide effect),	

		ozonolysis, oxidation, mechanism of electrophilic	
		addition. Alkynes - Nomenclature, the structure	
		of triple bond (ethyne), physical properties,	
		methods of preparation, chemical reactions:	
		acidic character of alkynes, addition reaction of -	
		hydrogen, halogens, hydrogen halides and water.	
		Aromatic Hydrocarbons: Introduction, IUPAC	
		nomenclature, benzene: resonance, aromaticity,	
		chemical properties: mechanism of electrophilic	
		substitution. Nitration, sulphonation,	
		halogenation, Friedel Craft's alkylation and	
		acylation, directive influence of the functional	
		group in monosubstituted benzene.	
		Carcinogenicity and toxicity.	
		<u>Unit VII: Equilibrium</u>	
		Equilibrium in physical and chemical processes,	
		dynamic nature of equilibrium, law of mass	
		action, equilibrium constant, factors affecting	
		equilibrium - Le Chatelier's principle, ionic	
6	lanuary	equilibrium- ionization of acids and bases, strong	
U	January	and weak electrolytes, degree of ionization,	
		ionization of poly basic acids, acid strength,	
		concept of pH, hydrolysis of salts (elementary	
		idea), buffer solution, Henderson Equation,	
		solubility product, common ion effect (with	
		illustrative examples)	
7	February	Revision	
0	,	Povision	
8	March	Revision	

ATOMIC ENERGY EDUCATION SOCIETY, MUMBAI Academic Session 2024-2025

Month-Wise Split-up Syllabus for class XI Subject: Computer Science (083) Class: XI

<u> </u>	3.6 .1	NT C	II : / O1 / / // :	
Sr.	Month	No. of	Unit/ Chapter/ Topics	
No.		working		
		d 0		
		days		
1	April	23		
2	May	03		
3	June	10	Unit – 1: Computer Systems and Organisation	
4	July	25	Unit - 1: Computer Systems and	PT – I
			Organisation cont.	(Syllabus-
			Unit 2: Computational Thinking and	Unit -1 and
			Programming – I -introduction, upto	Unit 2 (up to
			datatypes	operators)
5	August	25	Unit 2: Computational Thinking and	
	8		Programming – I operators, expressions	
6	September	22	Unit 2: Computational Thinking and	PT – II
			Programming – I errors, flow of control	(syllabus- up
			Control	to iterative
				statements)
7	October	10	Unit 2: Computational Thinking and	Diwali Break
			Programming – I conditional	(10 days)
			statements.	
8	November	24	Unit 2: Computational Thinking and	
			Programming – I conditional	
			statements cont., Iterative statements, strings,	
			otatomento, otringo,	
9	December	15	Unit 2: Computational Thinking and	Winter Break
			Programming – I strings, lists.	(11 days)
10	January	22	Unit 2: Computational Thinking and	PT – III
			Programming – I tuple, dict, modules	(Syllabus –
			Unit 3: Society, Law and Ethics – intro.	lists, tuples,
			11110.	dictionary)
				ζ,

11	February	23	Unit 3: Society, Law and Ethics	Practical
			Revision	Exam
12	March			Annual Exam

Academic Session 2024-2025

Month-Wise Split-up Syllabus for class XI Subject: Physical Education (048)

Sr. No.	Month	No. of working days	Unit/ Chapter/ Topics	
1	April	23		
2	May	03		
3	June	10	Unit - 1: Changing Trends and Careers in Physical Education.	
4	July	25	Unit - 2: Olympism Value Education Unit - 3: Yoga Revision of UT -1 Exam	
5	August	25	Unit 4: Physical Education and Sports for Children with Special Needs.	UT – I Exam (Syllabus- unit -1 and unit 2)
6	September	22	Unit 5: Physical Fitness, Wellness, and Lifestyle. Revision of Half Yearly Exam	Half Yearly (Syllabus- unit 3, 4 & unit 5) Half Yearly Practicals
7	October	10	Unit 6: Test, Measurement & Evaluation.	Diwali Break (10 days)
8	November	24	Unit 7: Fundamentals of Anatomy, Physiology in Sports.	
9	December	15	Unit 8: Fundamentals of Kinesiology And Biomechanics in Sports. Revision of UT -2 Exam	Winter Break (11 days)
10	January	22	Unit 9: Psychology and Sports.	UT – II Exams (Syllabus- unit -6, 7 & unit 8)
11	February	23	Unit 10: Training & Doping in Sports. Revision of Annual Exam	Annual Practical Exam
12	March			Annual Exam

Month - wise Split up of Syllabus for 2024-25

Class: XI Subject: BIOLOGY

Sr. No.	Month	No. of Working days	Chapters/Lessons/Unit to be taught in that month	Examination and Portion for the Exam
1	June	111	Ch. 1.The living world Ch. 2. Biological Classification	
2	July	25	Ch.3.Plant kingdom Ch.4. Animal kingdom Ch.5. Morphology of Flowering plants.	1. Unit Test 1
3	August	25	Ch.6. Anatomy of flowering plants. Ch.7. Structural organization in animals. Ch.8. Cell, the unit of life.	(August): Chapters: 1, 2 and 3.
4	Septembe r	')')	Ch.9.Biomolecules. Ch.10. Cell cycle and Cell division.	2. Half Yearly Exam (September)
5	October		Ch.13. Photosynthesis.	Chapters: 1, 2, 3, 4, 5, 6, 7, 8 and 9.
		Diwali bı	reak (10 days) Grp-A and Grp-B	
6	Novembe r	//	Ch.14. Respiration in plants. Ch.15. Plant growth and Development.	
7	Decembe r		Ch.17. Breathing and Exchange of gases. Ch.18. Body fluids and circulation.	3. Unit Test 2 (January):
		Wir	nter Break (11 days) Grp-A and Grp-B	Chapters: 10, 13, 14 and 15.
8	January	22	Ch.19. Excretory products and their elimination Ch.20. Locomotion and Movement. Ch.21. Neural Control and Coordination.	anu 13.
9	February	23	Ch.22. Chemical coordination and Integration (Syllabus completion up to 2 nd week of Feb) Revision	4. Pre-Annual Exam Complete Syllabus
10	March		Annual Exam (March) Complete Syllab	us

Class: XI

Month - wise Split up of Syllabus for 2024-25

Subject: Hindi (Subject Code: 302)

Sl. No	Month	No. of Worki ng days	Chapters/Lessons/Units to be taught in that month	Remarks
1.	July	25	आरोह भाग - १ पद्य 1. कबीर (हम तौ एक-एक कर जाना) 2. मीरा (मेरे तो गिरधर गोपाल) गद्य 1. नमक का दारोगा रचनात्मक लेखन , अभिव्यक्ति और माध्यम पाठ - १	PT 1 - Syllabus आरोह भाग - १ पद्य 1. कबीर (हम तौ एक-एक कर जाना) 2. मीरा (मेरे तो गिरधर गोपाल) गद्य 1. नमक का दारोगा रचनात्मक लेखन , अभिव्यक्ति और माध्यम पाठ - १
2.	August	25	पद्य 5.घर की याद गद्य 2.मियां नसरुद्दीन वितान भाग – १ 1.भारतीय गायिकाओं में बेजोड़ अभिव्यक्ति और माध्यम पाठ २	
3.	September	22	पद्य 6. चंपा काले काले अच्छर नहीं चीन्हती गद्य 3. अपू के साथ ढाई साल अभिव्यक्ति और माध्यम पाठ ९ , १० अपठित गद्यांश , अप्रत्याशित विषयों के लेखन , स्ववृत्त्य लेखन , शब्दकोश	PT 2 – Syllabus पद्य 5.घर की याद गद्य 2.मियां नसरुद्दीन वितान भाग – १ 1.भारतीय गायिकाओं में बेजोड़ अभिव्यक्ति और माध्यम पाठ २
4.	October	10	पद्य 7. गजल गद्य 4. विदाई संभाषण वितान 2. राजस्थान की रजत बूंदे अपठित पद्यांश, औपचारिक पत्र लेखन , रोजगार सम्बन्धी आवेदन पत्र	Diwali Break (10 days)
5.	November	24	पद्य 8. हे भूख मत मचल,हे मेरे जूही के फूल गद्य 5. गलता लोहा वितान 3.आलो अंधारि	
6.	December	15	पद्य 9. सबसे खतरनाक गद्य 7. रजनी , 8. जामुन का पेड़ अभिव्यक्ति और माध्यम पाठ १४ , १५ , १६	Winter Break (11 days)
7.	January	22	पद्य10. आओ मिलकर बचाएं गद्य 9. भारत माता अभिव्यक्ति और माध्यम- डायरी लेखन , कथा पटकथा लेखन	PT 3 – Syllabus पद्य 8. हे भूख मत मचल,हे मेरे जूही के फूल गद्य 5. गलता लोहा वितान 3.आलो अंधारि पद्य 9. सबसे खतरनाक गद्य 7. रजनी , 8. जामुन का पेड़ अभिव्यक्ति और माध्यम पाठ १४ , १५ , १६
8.	February	23	पुनरावृत्ति	
9.	March	-	वार्षिक परीक्षा २०२४	