

JINDAL VIDYA MANDIR – VASIND

Monthly Syllabus 2020-21

STD: XI SCIENCE

SUBJECT: ENGLISH

SUBJECT	BOOK NAME	MONTH	CHAPTER / TOPIC NAME	ACTIVITY
ENGLISH (ENGLISH CORE)	TWO NCERT TEXTBOOKS FOR CLASS XI			
WRITING SKILLS	---	MAY	Notice & Poster	Speaking Act 1: Self-Introduction
GRAMMAR	---	MAY	Grammar: Determiners	Listening Act 1: Focus on Figures of Speech Usage
LITERATURE	HORNBILL NCERT TEXTBOOK	JUNE	Prose 1 The Portrait of a Lady Poem 1 A Photograph	Speaking Act 2: Opinion about a Person
LITERATURE	SNAPSHOTS NCERT TEXTBOOK	JUNE	Lesson 1 The Summer of the Beautiful White Horse	Listening Act 2: Notices
WRITING SKILLS	---	JUNE	Advertisement – Classified	Speaking Act 3: Advertising a Product
LITERATURE	HORNBILL TEXTBOOK	JULY	Prose 2 We're not Afraid ... Poem 2 The Laburnum Top	Listening Act 3: Tips of Summarization
LITERATURE	SNAPSHOTS TEXTBOOK	JULY	Lesson 2 The Address	Listening Act 4: Speeches by Famous Orators (1)
WRITING & READING SKILLS	---	JULY	Formal Letters, Commercial Ads & Note-making	Speaking Act 4: Online Classes – Boon or Bane - Debate
LITERATURE	HORNBILL TEXTBOOK	AUGUST	Prose 3 Discovering Tut Poem 3 The Voice of Rain	---
LITERATURE	SNAPSHOTS TEXTBOOK	AUGUST	Lesson 3 Ranga's Marriage	Listening Act 5: Speech by Famous Orators (2)
WRITING & READING SKILLS	---	AUGUST	Abstraction of Note-making, & Letters to Editor	Speaking Act 5: Extempore / Declamation
LITERATURE	HORNBILL TEXTBOOK	SEPTEMBER	Prose 4 Landscape of the Soul	FORMAL TESTING OF LISTENING & SPEAKING SKILLS FOR TERM 1
LITERATURE	SNAPSHOTS TEXTBOOK	SEPTEMBER	Lesson 4 Albert Einstein at School	Listening Act 6: Listening to a Recorded Webinar
WRITING & READING SKILLS	---	SEPTEMBER	Note-making Abbreviations, Complaint Letters & Speech	Speaking Act 6A: Part 1 of Elocution

LITERATURE	HORNBILL TEXTBOOK	OCTOBER	Prose 5 The Ailing Planet Poem 4 Childhood	Speaking Act 6B: Part 2 of Elocution
LITERATURE	SNAPSHOTS TEXTBOOK	OCTOBER	Lesson 5 Mother's Day	Listening Act 7: Radio Talk Show
WRITING & READING SKILLS	---	OCTOBER	Order placing Letters, Classified Ads & Note- making	Speaking Act 7A: Group Discussion on Civilized Behaviour (Part 1)
LITERATURE	HORNBILL TEXTBOOK	NOVEMBER	Prose 6 The Browning Version Poem 5 Father to Son	Speaking Act 7A: Group Discussion on Civilized Behaviour (Part 2)
LITERATURE	SNAPSHOTS TEXTBOOK	NOVEMBER	Lesson 6 The Ghat of the Only World	Listening Act 8: Listening to TEDx Talk Show
WRITING & READING SKILLS	---	NOVEMBER	Job Application, Narrative & Factual Passage Comprehension	Speaking Act 8: Facing a Mock Interview
LITERATURE	HORNBILL & SNAPSHOTS TEXTBOOKS	DECEMBER	Prose 7 The Adventure Lesson 7 Birth	Listening Act 9: Comprehension Check
WRITING & READING SKILLS	---	DECEMBER	Revision of Short Compositions & Literary Passage Comprehension	Speaking Act 9: Group Discussion
LITERATURE	HORNBILL & SNAPSHOTS TEXTBOOKS	JANUARY	Prose 8 Silk Road Lesson 8 The Tale of Melon City	Listening Act 10 : Effective Listening Tips
WRITING & READING SKILLS	---	JANUARY	Complete Revision of Reading & Writing Skills	Speaking Act 10: Pair Interaction
LITERATURE	HORNBILL & SNAPSHOTS TEXTBOOKS	FEBRUARY	Complete Revision of Literature	FORMAL TESTING OF LISTENING SKILLS FOR TERM 2
WRITING & READING SKILLS	---	FEBRUARY	Complete Revision of Reading & Writing Skills	FORMAL TESTING OF SPEAKING SKILLS FOR TERM 2
---	---	MARCH	ANNUAL EXAM THEORY	---

STD:XI SCIENCE**SUBJECT: PHYSICS**

BOOK NAME	Month	CHAPTER NAME	ACTIVITY
NCERT		Chapter 1	
	May	Chapter 2.Units & measurements....	
	June	2.Units & measurements	Chapter 2. Measure thickness & diameter of solid objects by using Vernier calipers & screw guage
		3.Motion in a straight line	
	July	3. Motion in a straight line	
	August	4. Motion in a straight	
		5.Laws of motion	Chapter 5. To calculate frictional force
	September	6. Work, energy & power	Chapter6.To calculate oscillation of a pendulum
		7. System of particles & rotational motion	
	October	8. Gravitation	
		9. Mechanical properties of solids	
	November	10. Mechanical properties of fluids	
		11. Thermal properties of matter	
	December	12. Thermodynamics	
		13.Kinetic theory	
	January	13. Kinetic theory	
	February	14. Oscillation & waves	
	March	14. Oscillation & waves	

STD:XI SCIENCE**SUBJECT:CHEMISTRY**

BOOK NAME	Month	CHAPTER NAME	ACTIVITY
NCERT / MODERN ABC CHEMISTRY	April, May and June	Chp.-1.Some basic concept of chemistry	
	July	Chp.-2.Structure of atom Chp.3.Classification of elements and periodicity in properties.	1.Prepare M/10 solution of sodium carbonate solution 2 .Prepare M/10 oxalic acid solution.
	August	Chp.4.Chemical bonding and molecular structure Chp.5.Sate of matter	3.Prepare 250 ml of 5N HCl from the given 12NHCl
	September	Chp.6.Thermodynamics Chp.7.Equilibrium	4.Prepare 250 ml of 2M H ₂ SO ₄ from the given 18M H ₂ SO ₄
	October	Chp.8.Redox - Reaction Chp.9.Hydrogen	5. Determine the strength of the given sodium hydroxide solution. You are provided with M/20 oxalic acid solution
	November	Chp.10.s-Block element Chp.11. p- Block-element	6a.To analyse the given salt for acidic and basic radicals Like Cu ,Fe , Mn its salts etc
	December	Chp.12 Organic chemistry – Some basic principles and techniques	6b.salt anlyse the givne salt for acidic and basic radicals like Co, Ca, Zn of its salts
	January	Chp.13.Hydrocarbons	7. To determine the hardness of a water sample
	February	Chp.14.Environmental chemistry	8. Compare the foaming capacities of different samples of Soaps.
	March	Revision	Revision

STD:XI SCIENCE**SUBJECT:BIOLOGY**

BOOK NAME	Month	CHAPTER NAME	ACTIVITY
1 NCERT Text Book of Biology.	April	NA	NA
2 DOE TextBook of Biology.			
	May	Revision	NA
	June	Chapter1 : The Living World 2 : Biological Classification3 : Plant Kingdom	1 To study simple Microscope 2 Game to classify shapes 3 To study compound Microscope 4 To Observe and classify Monerans, Protists, Fungi and Plants through digital media
	July	4 : Animal Kingdom	5 To Observe and classify animals through digital media
		5 : Morphology of Flowering Plants	6 To study Phyllotaxy through digital media 7 To study Inflorescence through digital media 8 To study Modification of plant parts through digital media
	August	6 : Anatomy of Flowering Plants	9 To study T.S of Root ,Stem of dicots and monocots through digital media
		7 : Structural Organisation in Animals	10 To study Animal Tissues through digital media
		08 : Cell :The Unit of Life	
	September	09 : Biomolecules	11 Test for protein carbohydrates and fats by observing the procedure through digital media
		10 : Cell Cycle and Cell Division	12 To study Mitosis through digital media 13 To study Meiosis through digital media
	October	11 : Transport in Plants 12 : Mineral Nutrition	
	November	13 : Photosynthesis in Higher Plants	14 To study Plant pigment Chromatography through digital media
		14 : Respiration in Plants	
		15 : Plant Growth and Development	

		16 : Digestion and Absorption	
	December	17 : Breathing and Exchange of Gases	
		18 : Body Fluids and Circulation	
		19 : Excretory Products and their Elimination	
	January	20 : Locomotion and Movement	15 To study Human skeleton through digital media
		21 : Neural Control and Coordination	
		22 : Chemical Coordination and Integration	

STD:XI SCIENCE**SUBJECT: MATHEMATICS**

BOOK NAME	MONTH	CHAPTER NAME	ACTIVITY
NCERT	MAY	BASIC- LOGARITHMS	
	JUNE	BASIC – LOGARITHMS	
	JUNE	CHAPTER-1 SETS	TO Find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2^n
	JULY	CHAPTER-2 RELATIONS AND FUNCTIONS	To distinguish between a relation and a function
	JULY	CHAPTER-3 TRIGONOMETRY	To verify the relation between the degree measure and the radian measure of an angle.
	AUGUST	CHAPTER-4 PRINCIPLE OF MATHEMATICAL INDUCTION	
	AUGUST	CHAPTER- 5 COMPLEX NUMBERS	
	SEPTEMBER	CHAPTER-6 LINEAR INEQUALITIES	To verify that the graph of a given linear inequality of the form $ax+by+c<0$
	SEPTEMBER	CHAPTER-7 PERMUTATION AND COMBINATIONS	To find the number of ways in which three cards can be selected from given five cards.
	OCTOBER	CHAPTER-8 BINOMIAL THEOREM	To construct a pascal's triangle and to write binomial expansion for given positive integral exponent.
	OCTOBER	CHAPTER- 9 SEQUENCE AND SERIES	To verify the formula for the sum of squares of first n natural numbers using units cubes.
	NOVEMBER	CHAPTER-10 STRAIGHT LINES	
	DECEMBER	CHAPTER-11 CONIC SECTION	To construct different types of conic sections
		CHAPTER-12 INTRODUCTION OF THREE GEOMETRY	
		CHAPTER-13 LIMITS AND DERIVATIVES	
	JANUARY	CHAPTER -14 MATHEMATICAL REASONING	To obtain the truth values of compound statement of the type $p \wedge q$
	JANUARY	CHAPTER-15 STATISTICS	
	FEBRUARY	CHAPTER-16 PROBABILITY	To write the sample space , when a coin is tossed once, two times, three times

Unit	Topic	Month
1	<p>Introduction to Computer System: Introduction to computer 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. Software: purpose and types – system and application software, generic and specific purpose software.</p>	April/May/June
3	<p>Database concepts and the Structured Query Language: Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language Introduction to MySQL, creating a database using MySQL, Data Types Data Definition: CREATE TABLE Data Query: SELECT, FROM, WHERE. Data Manipulation: INSERT</p>	July/ August/ September
4	<p>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.</p>	November
2	<p>Introduction to Python: Basics of Python programming, Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation and 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. Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions.</p>	December/ January

Note: Practical will be evaluated Half Yearly (October) and Annual (February)

STD: XI SCIENCE**SUBJECT: PHYSICAL EDUCATION**

Unit	Chapter Name	Month
1	Changing Trends & Career in Physical Education	May
3	Physical Fitness, wellness & Lifestyle	June
2	Olympic Value Education	June/July
5	Yoga	July/ August
9	Psychology and Sports	August
4	Physical Education & Sports for CWSN	September
6	Physical Activity & Leadership Training	November
7	Test, Measurement & Evaluation	December
8	Fundamentals of Anatomy, Physiology & Kinesiology in sports	December
10	Training and Doping in sport	January
	Practical-1)physical fitness test 2)Games and sports 3)Yogic practices 4)Record File 5)Viva	October & February