



USHA MARTIN WORLD SCHOOL, PATNA

(Session: 2025–26)

SPLIT UP SYLLABUS: CLASS – XI

Subject:-ENGLISH

Month	Working Days Approx.	Lessons / Topics / Days
April	10	Hornbill : Prose- The Portrait of a Lady (3-4 days) Grammar - Formation of Sentences and types (6-7 days)
May	12	Grammar - Sentence, Tenses (5-6 days) Snapshots - The Summer of the Beautiful White Horse (3-4 days) Buffer days -3-4 days
June	11	Hornbill - Poem- A Photograph (2-3 days) Prose- Discovering Tut... (4-5 days) Buffer days -2-3 days
July	26	Hornbill - Poem- The Laburnum Top (2 days), The Voice of the Rain (2 days), Childhood (2-3 days). Prose- We are Not Afraid to Die... (4-5 days) Note Making and Summerising - 3 days Writing - Classified Advertisements (2-3 days), Speech - (2-3 days) Buffer Days -3-4 days
August	22	Snapshots - play: Mother's Day (5-6 days) Hornbill - Prose - The Address (3-4 days), Birth (3 days), Poem- The Tale of Melon City (3-4 days) Buffer days - 4-5 days
September	24	Buffer Week + Half Yearly Revision – 12 days Half-Yearly Exam.
October	17	Grammar - Reported Speech, Phrase and Clause (8-10 days) Hornbill - Prose: Silk Road (3-4 days) Buffer days - 2-3 days
November	29	Writing - Poster Making (2 days) Debate (4-5 days) Grammar - Error Correction, Editing, Jumbled words etc. (2 weeks) Buffer days - 6-7 days
December	24	Buffer Week + P.A. -2 (SYLLABUS COMPLETION/ Completion of pending portion/ Revision)
January	23	(REVISION)
February	24	(REVISION)
March		ANNUAL EXAM



USHA MARTIN WORLD SCHOOL, PATNA

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SPLIT UP SYLLABUS :CLASS – XI

Subject : Mathematics

MONTH	Working Days (Approx.)	LESSONS / TOPICS
APRIL	17	Ch-1 Sets
MAY	12	Ch-1 Sets
June	6	CH-1. SETS CH-6. LINEAR INEQUALITIES
July	18	CH-10. STRAIGHT LINES, Ch-3 TRIGONOMETRIC FUNCTIONS
August	21	CH-9 SEQUENCE & SERIES
September	23	CH-5 COMPLEX NUMBER P.A-1 EXAMINATION
October	21	CH-11 CONIC SECTION CH-12 3D GEOMETRY
November	19	CH-13 LIMITS & DERIVATIVES
December	20	CH-7. PERMUTATIONS & COMBINATIONS HALF YEARLY EXAMINATION
January	21	CH-8. BINOMIAL THEOREM
February	20	CH-2. RELATIONS & FUNCTIONS
March	21	ANNUAL EXAMINATION



USHA MARTIN WORLD SCHOOL, PATNA

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SPLIT UP SYLLABUS : CLASS – XI

Subject : Physics

MONTH	WORKING DAYS. (Approx.)	SET/WEEK	CHAPTER/TOPIC
April	17	1 2 3	Basic Math and vectors
May	12	4 5	CHP-1 Units and Measurements CHP-2 Motion in straight line
June	6	6	Motion in straight line
July	18	7	CHP-3 Motion in plane Revision for P.A-1 Examination P.A-1 Examination
August	21	8 9 10 11	CHP-4 Laws of motion CHP-5 Work, Energy and power CHP-6 Rotational Motion
September	23	12 13	Rotational Motion CHP-7 Gravitation Revision for Examination HALF YEARLY Examination
October	21	14 15 16 17	CHP-8 Mechanical properties of solids CHP-9 Mechanical properties of Fluids CHP-10 Thermal properties of Matter
November	19	18 19 20	CHP-11 Thermodynamics CHP-12 KTG
December	20		BUFFER WEEK Revision for Examination P.A-2 Examination
January	21	21 22 23 24	CHP-13 Oscillations CHP-14 Waves
February	20		REVISION
March	21		ANNUAL Examination



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SPLIT UP SYLLABUS : CLASS – XI

Subject : CHEMISTRY

<u>Month</u>	<u>Working Days</u>	<u>Topic</u>	<u>Set</u>	<u>Sub Topic</u>
APRIL	17	SOME BASIC CONCEPTS OF CHEMISTRY STRUCTURE OF ATOM	1 2 3	Concentration Henry law solubility
MAY	12	STRUCTURE OF ATOM	4 5	Discovery of electron Atomic model
June	07	CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIE	6 7	Atomic radius Ionization energy
July	23	CHEMICAL BONDING AND MOLECULAR STRUCTURE	8 9	Types of bonds Ionic character
August	19	ORGANIC CHEMISTRY: SOME BASIC PRINCIPLES AND TECHNIQUES/ HYDROCARBONS	10 11 12	Nomenclature Isomerism GOC/ Reaction
Septembe r	22	STATES OF MATTER: GASES AND LIQUIDS STATES OF MATTER: GASES AND LIQUIDS P.A-1 EXAMINATION	13 14 15	States of matter Characteristics Avogadro's law
October	19	S- BLOCK ELEMENTS P-BLOCK ELEMENTS	16 17	Physical properties Chemical properties
November	15	CHEMICAL THERMODYANMICS / REDOX REACTIONS	18	Oxidation & reduction
December	20	EQUILIBRIUM UPTO/LE – CHATELIER'S PRINCIPLE / ENVIRONMENTAL CHEMISTRY HALF YEARLY EXAMINATION	19 20	Oxidation number State of equilibrium
January	18	Revision : ORGANIC CHEMISTRY P.A-2 EXAMINATION	21	Graph
February	19	Revision : inorganic / physical chemistry		
March	ANNUAL / BOARD EXAMINATION			



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SPLIT UP SYLLABUS : CLASS – XI

Subject : Biology

MONTH	Working Days (Approx.)	LESSONS / TOPICS
APRIL		
MAY		
June	07	Chapter1. The Living World
July	23	Chapter 2. Biological Classification Chapter 3. Plant Kingdom Chapter 4. Animal Kingdom
August	19	Chapter 5. Morphology of Flowering Plants Chapter 6. Anatomy of Flowering Plant Chapter 7. Structural organization in Animals
September	22	PA 1 Examination
October	19	Chapter 8. Cell- The unit of Life Chapter 9. Biomolecules
November	15	Chapter 10. Cell Cycle and cell Division Chapter 11. Photosynthesis in Higher Plants
December	20	Half Yearly Examination
January	18	PA 2 EXAMINATION Chapter12. Respiration in Plants Chapter 13. Plant Growth and Development Chapter 14. Breathing and exchange of Gases
February	19	Chapter 15. Body Fluid and circulation Chapter 16. Excretory Product and their Elimination Chapter 17. Neural control and Coordination Chapter 18. Chemical coordination and integration Revision
March	21	ANNUAL / BOARD EXAMINATION



SPLIT UP SYLLABUS :CLASS – XI

Subject : ACCOUNTANCY

MONTH	Working Days (Approx.)	LESSONS / TOPICS
JUNE	06	<p>Introduction to Accounting</p> <ul style="list-style-type: none"> Accounting- concept, meaning, as a source of information, objectives, advantages and limitations, types of accounting information; users of accounting information and their needs. Qualitative Characteristics of Accounting Information. Role of Accounting in Business. Basic Accounting Terms- Entity, Business Transaction, Capital, Drawings. Liabilities (Non Current and Current). Assets (Non Current, Current); Expenditure (Capital and Revenue), Expense, Revenue, Income, Profit, Gain, Loss, Purchase, Sales, Goods, Stock, Debtor, Creditor, Voucher, Discount (Trade discount and Cash Discount) <p>Theory Base of Accounting</p> <ul style="list-style-type: none"> Fundamental accounting assumptions: GAAP: Concept Basic accounting concept : Business Entity, Money Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition, Matching, Full Disclosure, Consistency, Conservatism, Materiality and Objectivity System of Accounting. Basis of Accounting: cash basis and accrual basis Accounting Standards: Applicability in India Goods and Services Tax (GST): Characteristics and Advantages.
JULY	25	<p>Recording of Business Transactions</p> <ul style="list-style-type: none"> Voucher and Transactions: Source documents and Vouchers, Preparation of Vouchers, Accounting Equation Approach: Meaning and Analysis, Rules of Debit and Credit. Recording of Transactions: Books of Original Entry-Journal
AUGUST	25	<ul style="list-style-type: none"> ➤ Special Purpose books: ➤ Cash Book: Simple, cash book with bank column and petty cash book ➤ Purchases book ➤ Sales book ➤ Purchases return book ➤ Sales return book ➤ Journal proper <p>Note: Including trade discount, freight & cartage expenses for simple GST calculation.</p> <p>Ledger: Format, Posting from journal and subsidiary books, Balancing of accounts</p>

SEPTEMBER	25	<p>Bank Reconciliation Statement:</p> <ul style="list-style-type: none"> ➤ Need and preparation, Bank Reconciliation Statement <p>Depreciation, Provisions and Reserves</p> <ul style="list-style-type: none"> ➤ Depreciation: Meaning, Features, Need, Causes, factors ➤ Other similar terms: Depletion and Amortization ➤ Methods of Depreciation: ➤ Straight Line Method (SLM), ii. Written Down Value Method (WDV) <p>Note: Excluding change of method</p> <ul style="list-style-type: none"> ➤ Difference between SLM and WDV; Advantages of SLM and WDV ➤ Method of recoding depreciation:-Charging to asset account Creating provision for depreciation/accumulated depreciation account <p>P.A-1 EXAMINATION</p>
OCTOBER	13	<ul style="list-style-type: none"> ➤ Treatment of disposal of asset ➤ Provisions, Reserves, Difference between Provisions and Reserves. • Types of Reserves: <ul style="list-style-type: none"> i. Revenue Reserve ii. Capital Reserve iii. General Reserve iv. Specific Reserve v. Secret Reserve ➤ Difference between capital and revenue reserve
NOVEMBER	24	<p>Financial Statements</p> <p>Meaning, objectives and importance</p> <p>Revenue and Capital Receipts; Revenue and Capital Expenditure; Deferred Revenue expenditure.</p> <p>Opening journal entry. Trading and Profit and Loss Account: Gross Profit, Operating profit and Net profit.</p> <p>Preparation. Balance Sheet: need, grouping and marshalling of assets and liabilities.</p> <p>REVISION</p> <p>HALF-YEARLY EXAM</p>
DECEMBER	24	<p>Financial Statements with adjustment :</p> <p>preparation of financial statements with respect to closing stock, outstanding expenses, prepaid expenses, accrued income, income received in advance, depreciation, bad debts, provision for doubtful debts, provision for discount on debtors, Abnormal loss, Goods taken for personal use/staff welfare, interest on capital and managers commission.</p> <p>Preparation of Trading and Profit and Loss account and Balance Sheet of a Sole Proprietorship. HALF YEARLY EXAMINATION</p>
JANUARY	22	<p>Trial balance and Rectification of Errors</p> <ul style="list-style-type: none"> • Trial balance: objectives, meaning and preparation (Scope: Trial balance with balance method only) • Errors: classification-errors of omission, commission,

		<p>principles, and compensating; their effect on Trial Balance.</p> <ul style="list-style-type: none"> • Detection and rectification of errors; <ul style="list-style-type: none"> (i) Errors which do not affect trial balance (ii) Errors which affect trial balance (iii) preparation of suspense account.
February	18	<p>IN COMPLETE RECORD SYSTEM REVISION WORK.</p> <p>FINAL EXAMINATION</p>
MARCH	5	<p>FINAL EXAMINATION</p>



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SPLIT UP SYLLABUS : CLASS – XI

Subject :-Business Studies

MONTH	Working Days (Approx.)	LESSONS / TOPICS
APRIL	10	
MAY	10	
June	06	Chapter-1-Nature and Purpose of business: Business profession and employment- meaning, objectives –classification of business activities, Continued.....
July	25	Continued..... Industries -types, meaning-Commerce -trade-types meaning business risk-nature and Causes. Chap -2. Forms of Business Organisations: Sole proprietorship, Joint Hindu family business, Cooperative Society, Joint stock company, -choice -formation of company- starting a business.
August	25	Chap -3. Private, Public and Global Enterprises: type, forms, Changing roles -MNC –PPP Chap -4. Business Services: Nature, Types, Banking, e-banking, Insurance, Communication Services.
September	25	Chap -5. Emerging Modes of business : Concept benefits, limitations, Online transactions- Security Measures to secure safe transaction. P.A-1 EXAMINATION
October	13	Chap-6 Social Responsibility of Business and Business Ethics: Concept, Need Kinds Responsibilities towards different groups
November	24	Chap-7 Sources of Business Finance: concept, classification, sources -retained earnings, Shares, trade credit, factoring, Lease, Deposit, Commercial papers, Debentures, Commercial Banks Financial Institutions -Factors affecting raising of funds.
December	24	Chap -8. Small Business: MSMED ACT –meaning, Nature-Administrative Set up – Role Government Assistance, Institutions and Schemes, Problems, Futures. HALF YEARLY EXAMINATION
January	22	Chap- 9. Internal Trade: Wholesale Retail trade types of retail trade. Role of Indian chamber Of Commerce, Documentation for trade.
February	18	Chap- 10. International Business: Concept, features, characteristics, advantages, problems. Exports Imports Documentation and WTO. REVISION WORK. FINAL EXAMINATION



USHA MARTIN WORLD SCHOOL, PATNA

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SPLIT UP SYLLABUS : CLASS – XI

Subject : Economics

Month	Working Days	Book	Chapters	Portion of Examination	Percentage cover up syllabus
April	17	Micro economics		PA-1 Examination	40% syllabus to be covered
May	16		1. Introduction of Micro-Economics 2. Consumer's Equilibrium		
June	6		3. Theory of Demand		
July	25		1. Introduction of Statistics 2. Collection of Data	Half-yearly Examination	60% syllabus to be covered
August	26	Statistics	3. Census and sample method 4. Organization of Data		
September	23	Micro economics	4. Production Function	Pre-Board Examination	75% syllabus to be covered
October	28		5. Concept of Revenue 6. Producer's Equilibrium		
November	16	Statistics	5. Presentation of Data 6. Measures of Central Tendency 7 Mean, Median Mode	PA-2 Examination	100% syllabus to be covered
December	20	Micro economics	7. Theory of supply 7. Forms of Market 8. Price Determination		
January 2026	22	Statistics	8 Correlation 9 Index Number		
February 2026					
March 2026					



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SPLIT UP SYLLABUS :CLASS – XI

Subject : HISTORY

Month	Working Days	Chapter	Content / Topic		%Share In Syllabus
May					
June	06	1	*Introduction of World History * Introduction Of Timeline *Writing Of Citylife *Map Work	Chapter-4 The Three Orders	15%
July	22	2.	Continue	Chapter-4 The Three Orders Chapter -5 Changing Cultural Traditions	30%
August	22	3.	Continue	Chapter -5 Changing Cultural Traditions Chapter -6 Displacing Indigenous Peoples	45%
September	23		*Introduction of timeline II *An Empire Across Three Continents *Map Work	Chapter -6 Displacing Indigenous Peoples P.A.-1 EXAMINATION	
October	20	4.	* Continue	Chapter -6 Displacing Indigenous Peoples Chapter – 7 Paths to Modernization	60%
November	16	5.	*Nomadic Empires (Map Work)	Chapter – 7 Paths to Modernization	75%
December	22	6.	Continue	Revision HALF YEARLY EXAMINATION	90%
January	22	7.	Revision	Revision	100%
February	21		*Revision And Final Examination	Revision Final Examination	



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SPLIT UP SYLLABUS :CLASS – XI

Subject : GEOGRAPHY

MONTH	WORKING DAYS	CHAPTER	CONTENT	% OF THE SYLLABUS TO BE COVERED
APRIL	4	BOOK: FUNDAMENTALS OF PHYSICAL GEOGRAPHY CHAPTER-1 GEOGRAPHY AS A DISCIPLINE	1. Definition, scope, and significance of geography 2. Branches: Physical geography, human geography, environmental geography 3. Application of geography in daily life	5%
MAY	8	CHAPTER-2 THE ORIGIN AND EVOLUTION OF EARTH	1. Origin and evolution of the Earth 2. Geological time scale and major geological eras 3. Earth's interior: Layers (crust, mantle, core)	13%
JUNE	2	CHAPTER-3 INTERIOR OF THE EARTH	1. Plate tectonics, continental drift 2. Volcanoes, earthquakes, formation of mountains 3. Weathering and erosion processes	23%
JULY	8	CHAPTER-4 DISTRIBUTION OF OCEANS AND CONTINENTS	1. Understanding Earth's Interior – Earth's structure and sources of information 2. Layers of the earth 3. Seismic Waves & Plate Tectonics 4. Rocks & Minerals (Optional Extension)	31%
AUGUST	8	CHAPTER-5 GEOMORPHIC PROCESSES	1. Types of processes: Endogenic (internal) and Exogenic (external) 2. Endogenic Processes (Internal Forces) 3. Exogenic Processes (External Forces) 4. Geological Agents & Human Impact	39%

		<p>CHAPTER-6</p> <p>LANDFORMS AND THEIR EVOLUTION</p>	<ol style="list-style-type: none"> 1. Definition of landforms 2. Factors influencing landform evolution 3. Role of exogenic and endogenic processes 4. Landforms Created by Running Water (Fluvial Landforms) 5. Landforms Created by Glaciers (Glacial Landforms) 6. Landforms Created by Wind and Waves 7. Human Interaction and Landform Evolution 	45%
SEPTEMBER	8	<p>CHAPTER-7</p> <p>COMPOSITION AND STRUCTURE OF ATMOSPHERE</p>	<ol style="list-style-type: none"> 1. Introduction & Basic Composition of the Atmosphere 2. Vertical Structure of the Atmosphere 3. Factors Affecting Atmospheric Structure & Human Impact 	50%
		<p>CHAPTER-8</p> <p>SOLAR RADIATION, HEAT BALANCE AND TEMPERATURE</p>	<ol style="list-style-type: none"> 1. Understanding Solar Radiation 2. Heat Balance & Energy Budget of the Earth 3. Temperature Variations and Their Determinants 	60%
OCTOBER	4	<p>CHAPTER-9</p> <p>ATMOSPHERIC CIRCULATION AND WEATHER SYSTEMS</p>	<ol style="list-style-type: none"> 1. Definition of atmospheric circulation. 2. Differential heating of the Earth's surface as the driver of circulation. 3. Importance of atmospheric circulation in global climate regulation. 4. Weather Systems – Formation and Characteristics 5. Integrating Circulation Patterns and Weather Systems 	65%
		<p>CHAPTER-10</p> <p>WATER IN THE ATMOSPHERE</p>	<ol style="list-style-type: none"> 1. Introduction to Atmospheric Water 2. Cloud Formation and Atmospheric Moisture Processes 3. Precipitation, Fog, and the Role of Atmospheric Water in Climate 	71%

NOVEMBER	8	<p>CHAPTER-11</p> <p>WORLD CLIMATE AND CLIMATE CHANGE</p>	<ol style="list-style-type: none"> 1. Definition of climate versus weather. 2. Global distribution of climatic zones and the significance of latitudinal differences. 3. The factors influencing climate: solar radiation, Earth's tilt and rotation, altitude, and the role of geographic features. 4. Causes and Mechanisms of Climate Change 5. Impacts and Strategies for Climate Change 	79%
		<p>CHAPTER-12</p> <p>WATER (OCEANS)</p>	<ol style="list-style-type: none"> 1. Introduction, Distribution, and Properties of Ocean Water 2. Dynamic Processes—Waves, Tides, and Ocean Currents 3. Oceans and Their Role in Climate and Human Societies 	86%
DECEMBER	8	<p>CHAPTER-13</p> <p>MOVEMENTS OF OCEAN WATER</p>	<ol style="list-style-type: none"> 1. Waves and Tides 2. Ocean Currents and Driving Forces 3. Environmental Implications and Applications 	93%
		<p>CHAPTER-14</p> <p>BIODIVERSITY AND CONSERVATION</p>	<ol style="list-style-type: none"> 1. Introduction to Biodiversity 2. Threats to Biodiversity 3. Conservation Strategies and Sustainable Solutions 	100%
JANUARY	8	REVISION	REVISION	100%



USHA MARTIN WORLD SCHOOL, PATNA

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SPLIT UP SYLLABUS : CLASS – XI

Subject: POLITICAL SCIENCE

MONTH	Working Days (Approx.)	LESSONS / TOPICS
June	06	Introduction to political theory, Making of the constitution
July	25	Freedom Continued making of the constitutions
August	26	Equality, Rights,
September	25	System of Representational Democracy, Social justice P.A-1 EXAMINATION
October	13	Executive in a parliamentary system
November	24	Legislature at the central and state level, Judiciary, Citizenship
December	24	Nationalism, Secularism HALF YEARLY EXAMINATION
January	22	Federalism, Local Government, P.A-2 EXAMINATION
February	18	revision
March	05	BOARD EXAMINATION



USHA MARTIN WORLD SCHOOL, PATNA

(Session :2025-26)

SPLIT UP SYLLABUS :CLASS – XI

Subject : Computer science

Units	Month	Topics to be covered
Unit 1:	April	●Revision of Python topics covered in Class XI.
	May	●Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)
		●Exception Handling: Introduction, handling exceptions using try-except-finally blocks
	June	● Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths
		● Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file
	July	● Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file
● CSV file: import csv module, open / close csv file, write into a csv file using writer(), writerow(), writerows() and read from a csv file using reader()		
Unit 2:		● Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.
		● Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET)
	August	● Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching)
		● Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves)
		● Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)
	September	● Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree)
● Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP		

		<ul style="list-style-type: none"> ● Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting
Unit 3:	October	<ul style="list-style-type: none"> ● Database concepts: introduction to database concepts and its need
		<ul style="list-style-type: none"> ● Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)
	November	<ul style="list-style-type: none"> ● Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join
	December	<ul style="list-style-type: none"> ● Interface of python with an SQL database: connecting SQL with Python, performing
		insert, update, delete queries using cursor, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries



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SPLIT UP SYLLABUS : CLASS – XI

Subject: PAINTING (049)

S. No.	Month	TOPICS
1	July	Unit 1: Pre-historic Rock Paintings and Art of Indus Valley (2500 BC to 1500 BC) 1. A. Pre-historic Rock-Paintings Introduction 1) Period and Location 2) Study and appreciation of following Pre-historic Paintings: (i) Wizard's Dance, Bhimbethaka B. Introduction (i) Period and Location (ii) Extension: In about 1500 miles (a) Harappa & Mohenjo-daro (Now in Pakistan) (b) Ropar, Lothal, Rangpur, Alamgirpur, Kali Bangan, Bana (in India)
2	August	2. Study and appreciation of following: Sculptures and Terracottas: (i) Dancing Girl (Mohenjo-daro) Bronze, 10.5 x 5 x 2.5 cm. Circa 2500 BC (Collection: National Museum, New Delhi). (ii) Male Torso (Harappa) Red lime Stone, 9.2 x 5.8 x 3 cms. Circa 2500 BC (Collection: National Museum, New Delhi). (iii) Mother Goddess (Mohenjo-daro) terracotta, 22 x 8 x 5 cm. Circa 2500 BC (Collection: National Museum, New Delhi).
3	September	3. Study and appreciation of following Seal: (i) Bull (Mohenjo-daro) Stone (Steatite), 2.5 x 2.5 x 1.4 cm. Circa 2500 BC (Collection: National Museum, New Delhi). Decoration on Earthenwares: (i) Painted earthen-ware (Jar) Mohenjo-daro (Collection: National Museum, New Delhi).
4	October	Unit 2: Buddhist, Jain and Hindu Art (3rd century BC to 8th century AD) 1) General Introduction to Art during Mauryan, Shunga, Kushana (Gandhara and Mathure styles) and Gupta period: 2) Study of following Sculptures: i) Lion Capital from Sarnath (Mauryan period) Polished Sandstone, Circa 3rd Century BC (Collection: Sarnath Museum, UP) ii) Chauri Bearer from Didar Ganj (Yakshi) (Mauryan Period) Polished Sandstone Circa 3rd Century BC (Collection: Patna Museum, Bihar)

		<p>iii) Bodhisattva Head from Taxila (Kushan Period-Gandhara Style) Stone, 27.5 x 20 x 15 cm Circa 2nd Century AD (Collection: National Museum, New Delhi)</p> <p>iv) Seated Buddha from Katra Mound, Mathura (Kushan Period- Mathura Style) Red-spotted Sandstone, Circa 3rd Century AD (Collection: Govt. Museum, Mathura)</p>
5	November	<p>v) Seated Buddha from Sarnath (Gupta Period) Stone Circa 5th century AD (Collection: Sarnath Museum UP)</p> <p>vi) Jain Tirthankara (Gupta Period) Stone Circa 5th Century AD (Collection : State Museum, Lucknow, UP)</p> <p>3) Introduction to Ajanta Location, Period, No. of Caves, Chaitya and Vihara, Paintings and Sculptures, Subject Matter and Technique, etc.</p> <p>4) Study of Following Painting and Sculpture: (i) Padmapani Bodhisattva (Ajanta Cave No. I, Maharashtra) Mural Painting Circa 5th Century AD</p>
		<p>ii) Mara Vijay (Ajanta Cave No. 26) Sculpture in Stone Circa 5th Century AD</p>
6	December	<p>Unit 3: Temple Sculpture, Bronzes and Artistic Aspects of Indo-Islamic Architecture (A) Artistic Aspects of Indian Temple Sculpture (6th Century AD to 13th Century AD) (1) Introduction to Temple Sculpture (6th Century AD to 13th Century AD) (2) Study of following Temple-Sculptures: (i) Descent of Ganga (Pallava Period, Mahabalipuram, Tamil Nadu), Granite Rock Circa 7th Century AD (ii) Ravana Shaking Mount Kailash (Rashtrakuta Period, Ellora, Maharashtra) Stone 8th Century AD (iii) Trimurti (Elephanta, Maharashtra) Stone Circa 9th Century AD (iv) Lakshmi Narayana (Kandariya Mahadev Temple) (Chandela Period, Khajuraho, Madhya Pradesh) Stone Circa 10th Century AD (v) Cymbal Player, Sun Temple (Ganga Dynasty, Konark, Odisha) Stone Circa 13th Century AD (vi) Mother and Child (Vimal-Shah Temple, Solanki Dynasty, Dilwara, Mount Abu, Rajasthan) White Marble. Circa 13th Century AD</p>

7	January	<p>(B) Bronzes</p> <p>(1) Introduction to Indian Bronzes</p> <p>(2) Method of Casting (Solid and Hollow)</p> <p>(3) Study of following South Indian Bronzes:</p> <p>(i) Nataraj (Chola Period, Thanjavur Distt., Tamil Nadu) 12th Century AD (Collection: National Museum, New Delhi)</p> <p>(ii) Devi (Uma) Chola Period 11th Century AD (Collection: National Museum, New Delhi)</p> <p>(C) Artistic Aspects of the Indo-Islamic Architecture</p> <p>(1) Introduction</p>
		<p>(2) Study of following Architectures:</p> <p>(i) Qutub Minar, Delhi</p> <p>(ii) Taj Mahal, Agra</p> <p>(iii) Gol Gumbaz, Bijapur</p>
8	February	Revision



USHA MARTIN WORLD SCHOOL, PATNA

(Session : 2025-26)

SPLIT UP SYLLABUS : CLASS – XI

Subject: PHYSICAL EDUCATION (048)

MONTH	Working Days (Approx.)	LESSONS / TOPICS
JUNE	7	Unit I Changing Trends & Career in Physical Education <ul style="list-style-type: none">● Concept, Aims & Objectives of Physical EducationDevelopment of physical education in India- post independence● Changing Trends in Sports- playing surface, wearable gears and sports equipment, technological advancements● Career Options in Physical Education● Khelo-India and Fit-India Program
JULY	23	Unit II Olympic value education <ul style="list-style-type: none">● Olympism - concept and Olympics values (excellence, friendship and respect)● Olympic value education - Joy of effort ,fair play, respect for others ,pursuit of excellence ,balance among body ,will and mind● ancient and modern OlympicsOlympics symbols, Motto ,flag, oath and anthem● Olympic Movement Structure - IOC, NOC, IFS, Other members Unit III Yoga <ul style="list-style-type: none">● Meaning & Importance of Yoga● Introduction to Ashtanga Yoga● yogik kriya (shat karma)Pranayama and its typesActive lifestyle and stress management through yoga
AUGUST	19	Unit IV Physical Education & Sports for CWSN (Children with Special Needs - Divyang) <ul style="list-style-type: none">● Concept of Disability and Disorder● Types of Disability, its causes & nature (Intellectual disability, Physical disability)Disability etiquette● Aim & Objective of Adaptive Physical Education● Role of various professionals for children with special needs (Counsellor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist & Special Educator)

SEPTEMBER	22	Unit V Physical Fitness, Wellness and lifestyle <ul style="list-style-type: none"> ● Meaning and Importance of Wellness, Health and Physical Fitness ● Components/Dimensions of Wellness, Health and Physical Fitness ● Traditional Sports & Regional Games for promoting wellness Leadership through physical activity and sports Introduction to first aid - p r i c e Unit VI Test, Measurement & Evaluation Define test measurement and evaluation Importance of test ,measurement and evaluation in sports Calculation of BMI ,waist hip ratio, skin fold measurement (3- site). Somato types (endomorphy ,mesomorphy and ectomorphy) Measurements of health related fitness P.A-1 EXAMINATION
OCTOBER	19	Unit VII Fundamentals of Anatomy, Physiology in Sports <ul style="list-style-type: none"> ● Definition and Importance of Anatomy and Physiology in exercise and sports ● Functions of Skeletal system, classification Properties and function of muscles● Function and Structure of Circulatory system and heart.● Function and Structure of Respiratory system.
NOVEMBER	15	Unit VIII Fundamentals of Kinesiology and Biomechanics in Sports <ul style="list-style-type: none"> ● Definition and Importance of Kinesiology and Biomechanics in sports ● Principles of Biomechanics Kinetics and kinematics in sports● Types of Body Movements - Flexion, Extension, Abduction, Adduction, Rotation, Circumduction, Supination & Pronation● Axis and Planes – Concept and its application in body movements
DECEMBER	20	Unit IX Psychology & Sports <ul style="list-style-type: none"> ● Definition & Importance of Psychology in Physical Education & Sports Development characteristics at different stage of development <ul style="list-style-type: none"> ● Adolescent Problems & Their Management Introduction to psychological attributes: attention, resilience mental toughness <ul style="list-style-type: none"> ● Team Cohesion and Sports HALF YEARLY EXAMINATION
JANUARY	18	Unit X Training and Doping in Sports <ul style="list-style-type: none"> ● Concept and Principles of Sports Training ● Training Load: Over Load, Adaptation, and Recovery Warming-up, and limbering down types, method and importance Concept of skill, technique and tactics, strategies <ul style="list-style-type: none"> ● Concept of Doping and its disadvantages P.A-2 EXAMINATION
FEBRUARY		REVISION
MARCH		BOARD EXAMINATION



USHA MARTIN WORLD SCHOOL, PATNA

(Session : 2025-26)

SPLIT UP SYLLABUS: CLASS – XI

Subject : Applied Mathematics

MONTH	Working Days	LESSONS / TOPICS	CLASS TEST NO.
APRIL			
MAY			
June			
July	26	Numbers Quantification <ol style="list-style-type: none"> 1. Binary number 2. Indices, logarithm and antilogarithm 3. Laws and properties of logarithm. 4. Simple application of logarithm and antilogarithm Numerical application <ol style="list-style-type: none"> 1. Average 2. Clock 3. Calendar 4. Time work and distance 5. Mensuration 6. Seating arrangement 	
August	22	Algebra <ol style="list-style-type: none"> 1. Sets 2. Relation 3. Sequences and series 4. Arithmetic progression 5. Geometric progression 6. Permutation and combination 	
September	24	Calculus <ol style="list-style-type: none"> 1. Functions 2. Types of function 3. Graphical representation of function 4. Concept of limits and continuity 5. Instantaneous rate of changes 6. Differentiation as a process of finding derivative 7. Derivative of Algebraic functions using chain rule. 	
October	16	Logical Reasoning Solving logical problems involving odd man out, syllogism, blood relation and coding decoding.	
November	24	Probability Random experiment and sample space event, conditional probability, total probability. Bayes' theorem. Financial Mathematics Interest and Interest rates. Accumulation with	

		simple and compound interest, simple and compound interest rates with equivalency.	
December	23	Effective rates of interest, present value, net value and future value. Annuities, calculating value of regular annuity. Simple application of regular annuities upto 3 periods. Tax:- Calculation of tax, Simple application of tax calculation in goods and service tax. Income tax. Bills, tariff rates fixed charge, surcharge, service charge.	
January	24	Coordinate Geometry Straight Line, Circle, Parabola. Descriptive Statistics	
February	23	Data interpretation Measure of dispersion Skewness and kurtosis Percentile rank and quantity rank. correlation	
March	Annual examination		