



USHA MARTIN WORLD SCHOOL, PATNA

(Session : 2024–25)

SPLIT UP SYLLABUS : CLASS – XII

Subject : **ENGLISH**

Month	Working Days	Lessons / Topics / Days
April	21	Flamingo : Prose- The Last Lesson - 4 days, Poem- My Mother at Sixty-Six - 2 days, Keeping Quiet - 2-3 days Vistas : Prose - The Third Level (3-4 days) Vistas - Prose- The Tiger King (3-4 days) Buffer days - 4-5 days
May	12	Flamingo: Prose- Lost Spring (5-6 days), Poem- A Thing of Beauty (2 days) Buffer days - 3-4 days
June	11	Writing - Formal/Informal Invitation (3 days) Vistas - Prose- Journey to the End of the Earth (3-4 days) Buffer days - 3-4 days
July	26	Flamingo: Prose- The Rattrap (5-6 days) Writing- Notice (3 days) Buffer days + P.A. – 1 Revision – 17 days
August	22	Vistas- The Enemy (7-8 days) Vistas: On the Face of It (4-5 days) Flamingo - Indigo (4-5 days) Buffer days - 4-5 days
September	24	Buffer Week + Half Yearly Revision – 12 days Half-Yearly Exam.
October	17	Flamingo: Prose- Poets and Pancakes (4-5 days), Poem- A Roadside Stand (4 days) Writing- Letter (4 days) Buffer days - 4-5 days
November	29	Flamingo: Prose-The Interview (4 days), Going Places (3 days), Poem- Aunt Jennifer's Tiger (2 days) Writing - Article/Report (5-6 days) Buffer days/Revision - 10-15 days
December	24	Buffer Week + P.A. -2 Revision – 10-12 days Vistas : Prose - Memories of Childhood (3+3 days), (SYLLABUS COMPLETION)
January	23	(REVISION FOR PRE-BOARDS/ Pre-Board Exams)
February	24	(Revision)
March		Board Exam



USHA MARTIN WORLD SCHOOL, PATNA

(Session : 2024-25)

SPLIT UP SYLLABUS : CLASS – XII

Subject : MATHEMATICS

<u>Month</u>	<u>Working Days</u>	<u>Topic</u>	<u>Set</u>	<u>Sub Topic</u>
APRIL	17	1.CH3.MATRICES	1,2 & 3	1.MATRIX 2.ORDER OF A MATRIX 3.TYPES OF MATRICES 4.EQUALITY OF MATRICES 5.OPERATIONS OF MATRICES 6. TRANSPOSE OF A MATRIX 7. SYMMETRIC AND SKEW SYMMETRIC MATRICES 8. INVERTIBLE MATRICES
		2. CH4. DETERMINANTS		1. INTRODUCTION 2.DETERMINANT 3.AREA OF TRIANGLE 4. MINORS AND COFACTORS
MAY	12	2. CH4. DETERMINANTS(CONTINUE)	4&5	5. ADJOINT AND INVERSE OF A MATRIX 6.APPLICATIONS OF DETERMINANTS AND MATRICES
		3.CH2. INVERSE TRIGONOMETRIC FUNCTIONS		1. BASIC CONCEPTS 2.PROPERTIES OF ITF
JUNE	6	4.CH5. CONTINUITY & DIFFERENTIABILITY	6	1.CHAIN RULE EX5.2 2.DERIVATIVE OF IMPLICIT FUNCTION(EX5.3)
JULY	18(EXAM PA1)	4.CH5. CONTINUED	7&8	3.DERIVATIVE OF ITF (EX 5.3) 4.EXPONENTIAL AND LOGARITHMIC FUNCTIONS (EX 5.4) 5.LOGARITHMIC DIFFERENTIATION(EX 5.5)
AUGUST	21	4.CH5. CONTINUED	9 to 12	6.DERIVATIVES OF FUNCTIONS IN PARAMETRIC FORMS(5.6) 7.SECOND ORDER DERIVATIVE(5.7) 8.CONTINUITY(EX5.1) 9.DIFFERENTIABILITY(5.2)

		5.CH7. INTEGRALS		1.INTEGRATION BY SUBSTITUTION(EX7.2) 2.INTEGRATION USING TRIGONOMETRIC IDENTITIES(EX7.3)
SEPTEMBER	13(EXAM HY)	CH7. CONTINUED	13	3.INTEGRALS OF SOME PARTICULAR FUNCTIONS(EX7.4) 4.INTEGRAL BY PARTIAL FRACTIONS(EX7.5) 5.INTEGRATION BY PARTS(7.6) 6.INTEGRALS OF SOME TYPES(EX7.7) 7.DEFINITE INTEGRALS (EX7.8) 8.EVALUATION OF DI BY SUBSTITUTION(7.9) 9.PROPERTIES OF DI(7.10)
OCTOBER	16	6.CH6.APPLICATIONS OF DERIVATIVES	14&15	1.RATE OF CHANGE OF QUANTITIES(EX6.1) 2.INCREASING&DECREASING FUNCTIONS(EX6.2) 3.MAXIMA&MINIMA(EX6.3)
		7.CH12.LINEAR PROGRAMMING		1.INTRODUCTION 2.LINEAR PROGRAMMING PROBLEM AND ITS MATHEMATICAL FORMULATION (EX12.1)
		8.CH9.DIFFERENTIAL EQUATIONS		1.BASIC CONCEPT 2.ORDER OF DE(EX9.1) 3.GENERAL AND PARTICULAR SOLUTIONS OF A DE (EX9.2) 4.DE WITH VARIABLES SEPARABLE(EX9.3) 5.HOMOGENEOUS DE (EX9.4) 6. LINEAR DE (EX9.5)
NOVEMBER	20	9.CH8.APPLICATIONS OF INTEGRALS	16&19	1.AREA UNDER SIMPLE CURVES(EX8.1)
		10.CH10.VECTOR ALGEBRA		1.SOME BASIC CONCEPTS 2.TYPES OF VECTORS(EX10.1) 3.ADDITION OF VECTORS 4.MULTIPLICATION OF A VECTOR BY A SCALAR 5.COMPONENT OF A VECTOR 6.VECTOR JOINING TWO POINTS 7.SECTION FORMULA(EX10.2) 8 .SCALAR PRODUCT OF TWO VECTORS(EX0.3) 9.CROSS PRODUCT OF TWO VECTORS(EX10.4)
		11.CH1.RELATIONS&FUNCTIONS		1.INTRODUCTION 2.TYPES OF RELATIONS (EX1.1) 3.TYPES OF FUNCTIONS(1.2) 4.COMPOSITION OF FUNCTIONS AND INVERTIBLE FUNCTION

DECEMBER	15(EXAM PB1)	12.CH11.3D GEOMETRY	20	1.INTRODUCTION 2.DIRECTION COSINES&DIRECTION RATIOS OF A LINE 3.DIRECTION COSINES OF A LINEPASSING THROUGH TWO POINTS(EX11.1) 4.EQUATION OF A LINE IN SPACE 5.ANGLES BETWEEN TWO LINES 6.SHORTEST DISTANCE BETWEEN TWO LINES(EX11.2)
		13.CH13.PROBABILITY		1.CONDITIONAL PROBABILITY(EX13.1) 2.MULTIPLICATION THEOREM ON PROBABILITY 3.INDEPENDENT EVENTS(13.2) 4.BAYES THEOREM(EX13.3)
JANUARY	22(EXAM PB2)		21&22	
FEBRUARY	23		23 to 25	
MARCH				



USHA MARTIN WORLD SCHOOL, PATNA

(Session : 2024-25)

SPLIT UP SYLLABUS : CLASS – XII

Subject : **PHYSICS**

MONTH	WORKING DAYS	SET/WEEK	CHAPTER/TOPIC
April	17	1 2 3	CHP 1:- Electric charges and fields Electric charge, coulomb's law Electric field, flux Gauss's Laws and its application
May	12	4 5	CHP 2: Electrostatic potential and capacitance Electrostatic potential Electrostatics capacitance
June	6	6	CHP 3: Current Electricity
July	18	7 8	CHP 4: Moving charge and magnetism Revision for P.A-1 Examination P.A-1 Examination CHP 5: Magnetism and matter
August	21	9 10 11	CHP 6: EMI CHP 7: AC BUFFER WEEK CHP 8: EM wave
September	23	13 14	CHP 9: Optics CHP 9: Optics continue Revision for Examination HALF YEARLY Examination
October	21	15 16 17	CHP 10 : wave optics CHP 10 : wave optics continue BUFFER WEEK CHP 11: Dual nature of radiation and matter
November	19	18 19 20	CHP 12 : Atoms CHP 13: Nuclei CHP 14: Semiconductor
December	20		BUFFER WEEK Revision for Examination PRE-Board Examination
January	21		REVISION & PRACTICAL Examination
February	20		REVISION
March	21		ANNUAL Examination



USHA MARTIN WORLD SCHOOL, PATNA

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SPLIT UP SYLLABUS : CLASS – XII

Subject : **CHEMISTRY**

<u>Month</u>	<u>Working Days</u>	<u>Topic</u>	<u>Set</u>	<u>Sub Topic</u>
APRIL	17	SOLUTION	1 2 3	Concentration Henry law Solubility
MAY	12	ELECTROCHEMISTRY	4 5	Electrochemical cell Electrolytic conduction
June	6	CHEMICAL KINETICS	6 7	Rate of Reaction Rate law, Collision
July	18	HALOALKANES AND HALOARENES P.A-1 EXAMINATION	8 9	Clarification Nomenclature, Reaction P.A-1 EXAMINATION
August	21	ALCOHOLS, PHENOLS AND ETHERS d- AND f- BLOCK ELEMENTS	10 11	Clarification Nomenclature, Reaction
September	23	ALDEHYDES KETONES AND CARBOXYLIC ACIDS HALF YEARLY EXAMINATION	12 13	Clarification Nomenclature, Reaction Half yearly examination
October	21	ORGANIC COMPOUNDS CONTAINING NITROGEN ELECTROCHEMISTRY	14 15	Clarification of Amine Reaction
November	19	CO-ORDINATION COMPOUNDS BIOMOLECULES	16	Salt, Naming, Bonding
December	20	CHEMICAL KINETICS Revision P.A-2 EXAMINATION	17	Revision Pre Board Examination
January	21	Revision & PRACTICAL EXAMINATION		Revision & Practical
February	20	Revision & PRE-BOARD EXAMINATION		Revision
March	21	BOARD EXAMINATION		



USHA MARTIN WORLD SCHOOL, PATNA

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SPLIT UP SYLLABUS : CLASS – XII

Subject : **BIOLOGY**

MONTH	Working Days	LESSONS / TOPICS
APRIL	19	CH-1. Sexual Reproduction in flowering plants. CH-2. Human Reproduction
MAY	11	CH-2. Human Reproduction CH3. Reproductive Health.
June	6	CH-4. Principles of Inheritance and Variation.
July	26	CH-4. Principles of Inheritance and Variation. CH-5. Molecular basis of Inheritance
August	22	CH-5. Molecular basis of Inheritance CH-6. Evolution
September	24	CH-7. Human Health and disease. HYE
October	16	CH-8. Microbes in human welfare CH-9. Biotechnology: Principle and Processes. CH-10. Biotechnology and its application
November	24	CH-10. Biotechnology and its application CH-11. Organisms and Population CH-12. Ecosystem
December	23	CH-12. Ecosystem CH-13. Biodiversity and its Conservation.
January	24	
February	23	
March	ANNUAL / BOARD EXAMINATION	



USHA MARTIN WORLD SCHOOL, PATNA

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SPLIT UP SYLLABUS : CLASS – XII

Subject : **HISTORY**

MONTH	Working Days	DATE	LESSONS / TOPICS
April	19	7 th to 11 th	Chapter -1 Bricks, Beads & Bones The Harappan Civilization
		14 th to 19 th	Chapter -1 Bricks, Beads & Bones The Harappan Civilization
		21 st to 25 th	Chapter -1 Bricks, Beads & Bones The Harappan Civilization
		28 th to 30 th	Chapter -2 Kings Farmer's & Towns Early States & Economies
May	12	1 st to 3 rd	Chapter -2 Kings Farmer's & Towns Early States & Economies
		5 th to 9 th	Chapter -2 Kings Farmer's & Towns Early States & Economies
		12 th to 16 th	Chapter -2 Kings Farmer's & Towns Early States & Economies
June	06	24 th to 27 th	Chapter -3 Kinship Caste & Class Early Societies
		30 th	Chapter -3 Kinship Caste & Class Early Societies
July	22	1 st to 4 th	Chapter -3 Kinship Caste & Class Early Societies
		7 th to 11 th	Chapter -3 Kinship Caste & Class Early Societies
		14 th to 18 th	PERIODIC ASSESSMENT - 1
		21 st to 25 th	Chapter -4 Thinkers Believes & Buildings Cultural Developments
		28 th to 31 st	Chapter -4 Thinkers Believes & Buildings Cultural Developments
August	22	1 st	Chapter -5 Through The Eyes of Travellers Perceptions of Society
		4 th to 8 th	Chapter -5 Through The Eyes of Travellers Perceptions of Society
		11 th to 15 th	Chapter -6 Bhakti – Sufi Tradition Changes in Religious Beliefs & Devotional texts
		18 th to 22 nd	Chapter -6 Bhakti – Sufi Tradition Changes in Religious Beliefs & Devotional texts
		25 th to 29 th	Chapter -6 Bhakti – Sufi Tradition Changes in Religious Beliefs & Devotional texts
September	12	1 st to 5 th	Chapter -7 An Imperial Capital Vijaynagar
		8 th to 12 th	Chapter -7 An Imperial Capital Vijaynagar
		15 th to 19 th	HALF YEARLY EXAMINATION
		22 nd to 26 th	Chapter -8 Agrarian society & the Mughal Empire
October	15	6 th to 10 th	Chapter -8 Agrarian society & the Mughal Empire
		13 th to 17 th	Chapter -8 Agrarian society & the Mughal Empire
November	21	3 rd to 7 th	Chapter -9 Colonialism & the Country side Exploring Official Archives
		10 th to 14 th	Chapter -9 Colonialism & the Country side Exploring Official Archives
		17 th to 21 st	Chapter -10 Rebels & the Raj 1857 Revolt & its representation
		24 th to 28 th	Chapter -10 Rebels & the Raj 1857 Revolt & its representation

December	15	1 st to 5 th	Chapter -11 Mahatma Gandhi & the National Movement
		8 th to 12 th	Chapter -11 Mahatma Gandhi & the National Movement
		15 th to 19 th	Chapter -11 Mahatma Gandhi & the National Movement
		22 nd to 26 th	Chapter -12 Framing the Constitution The Beginning of a New Era
January	12	5 th to 9 th	Revision
		12 th to 16 th	Revision
		18 th to 23 rd	PRE – BOARD EXAMINATIO
		27 th to 30 th	PRE – BOARD EXAMINATIO
February			BOARD EXAMINATION



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SPLIT UP SYLLABUS : CLASS – XII

Subject : GEOGRAPHY

MONTH	Working Days	DATE	LESSONS / TOPICS
April	19	7 th to 11 th	Book-2 Chapter -1 Population Distribution Density Growth & Composition
		14 th to 19 th	Book -2 Chapter -1 Population Distribution Density Growth & Composition
		21 st to 25 th	Book-2 Chapter -2 Human Settlement
		28 th to 30 th	Book-2 Chapter -2 Human Settlement
May	12	1 st to 3 rd	Book -2 Chapter -3 Land Resources & Agriculture
		5 th to 9 th	Book -2 Chapter -3 Land Resources & Agriculture
		12 th to 16 th	Book -3 Chapter -1 Data its Source & Compilation
June	06	24 th to 27 th	Book -3 Chapter -1 Data its Source & Compilation
		30 th	Book -3 Chapter -1 Data its Source & Compilation
July	22	1 st to 4 th	Book -3 Chapter -1 Data its Source & Compilation
		7 th to 11 th	Buffer Week
		14 th to 18 th	PERIODIC ASSESSMENT - 1
		21 st to 25 th	Book – 2 Chapter -4 Water Resource
		28 th to 31 st	Book – 2 Chapter -4 Water Resource
August	22	1 st	Book-2 Chapter -5 Mineral & Energy Resource
		4 th to 8 th	Book-2 Chapter -5 Mineral & Energy Resource
		11 th to 15 th	Book-2 Chapter -5 Mineral & Energy Resource
		18 th to 22 nd	Book – 3 Data Processing
		25 th to 29 th	Book – 3 Data Processing
September	12	1 st to 5 th	Book – 3 Data Processing
		8 th to 12 th	Buffer Week
		15 th to 19 th	HALF YEARLY EXAMINATION
		22 nd to 26 th	Book – 2 Planning & Sustainable Development in Indian context
October	15	6 th to 10 th	Book – 2 Planning & Sustainable Development in Indian context
		13 th to 17 th	Book – 2 Transport and Communication
November	21	3 rd to 7 th	Book – 2

			Transport and Communication
		10 th to 14 th	Book – 2 Transport and Communication
		17 th to 21 st	Book -2 International Trade
		24 th to 28 th	Book -2 International Trade
December	15	1 st to 5 th	Book -2 Geographical Perspective on selected issues & problems
		8 th to 12 th	Book – 3 Graphical Representations of Data
		15 th to 19 th	Book – 3 Graphical Representations of Data
		22 nd to 26 th	Book – 3 Spatial Information Technology
January	12	5 th to 9 th	Revision
		12 th to 16 th	Revision
		18 th to 23 rd	PRE – BOARD EXAMINATION
		27 th to 30 th	PRE – BOARD EXAMINATION
February	11	2 nd to 6 th	BOARD EXAMINATION



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SPLIT UP SYLLABUS : CLASS – XII

Subject : **ECONOMICS**

Month	Working Days	Unit	Chapters	Portion of Examination	Percentage cover up syllabus	Book to be taught
April	17	Unit - 6	1. Indian economy on the eve of independence. 2. Five Year Plan in India	PA-1 Examination	40% syllabus to be covered	Indian Economics
May	16	Unit - 1	1. National Income and Related Aggregated 2. Measures of National Income			Macro Economics
June	6	Unit – 6	3. Economic Reforms since – 1991			Indian Economics
July	25	Unit – 2	Money and Banking			Macro Economics
August	26	Unit – 3	Determination of Income and Employment	Half-yearly Examination	60% syllabus to be covered	Macro Economics
September	23	Unit – 4	Government Budget and the Economy			Macro Economics
October	28	Unit - 5	Balance of Payment	Pre-Board Examination	100% syllabus to be covered	Macro Economics
November	16	Unit – 7	3. Current Challenges Facing Indian Economy 4. Human Capital Formation 5 Rural Development			Indian Economics
December	20	Unit – 8	6. Employment 7. Sustainable Economic Development 8. Development Experience of India			Indian Economics
January 2026	22		Revision and Pre – Board Examination			
February 2026						
March 2026						



USHA MARTIN WORLD SCHOOL, PATNA

(Session : 2024-25)

SPLIT UP SYLLABUS : CLASS – XII

Subject : **POLITICAL SCIENCE**

Month	Lesson	Topic	Days	Portion of Examination
April	1. 2. 1-World	Disintegration of the second world war and the collapse of Bipolarity Nation Building and its problems New centers of powers	17	
May	Indian	Continued... Politics in planned development	16	
June	2 (Indian)	India's Foreign Policy	6	
July	04 (India) 05 World)	Continued.... South Asia and the contemporary World	25	40% of syllabus covered
August	05 (India) 06 World) 07 World)	Parties and the party system in International organization Security in contemporary world	23	
September	(06) (India) (07) (India)	Democratic resurgence Rise of New Social movement	28	60% syllabus covered
October	08 (World) 09 (World)	Environment and Resources in global world Globalization	16	
November	(08) India (09) India	Regional aspiration Indian Politics : New changes	20	
December		Revision	22	



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(Session : 2024-25)

SPLIT UP SYLLABUS : CLASS – XII

Subject : ACCOUNTANCY

MONTH	Working Days	LESSONS / TOPICS
APRIL	10	PART-A UNIT-2. Accounting for Partnership:-CH-1. FUNDAMENTAL:- (a) Nature of Partnership Firm: Partnership Deed -Meaning, Impact; Rules of partnership Act-1932; limited liability partnership Act-2008 (only theory concept) (b) Preparation of Final Accounts of Partnership: Preparation of Profit & Loss Appropriation A/c; Fixed v/s Fluctuating Capital, Division of Profit among partners in different ways (c) Specific treatment:- Past adjustments (including retro-respective adjustment and Guarantee of minimum Profits.
MAY	10	B. Reconstitution of Partnership (Change in Profit Sharing Ratio): Change in Profit Sharing Ratio among the existing partners - Sacrificing Ratio and Gaining Ratio. Goodwill: Nature, Factors affecting and Methods of valuation: average profit, super profit, capitalization, accounting treatment of goodwill. Cont.....
JUNE	06	Cont..... Accounting for Revaluation of Assets and Liabilities and Distribution of Reserves and Accumulated Profits. Preparation of new balance sheet after reconstitution (with and without altered value of assets and liabilities).
JULY	25	C. Admission of a Partner: Effect of Admission of Partner, Change in Profit Sharing Ratio -Sacrificing Ratio, Calculation of new profit sharing ratio, Accounting Treatment of Goodwill (including treatment of Hidden goodwill). Accounting Treatment for Revaluation of Assets and Liabilities. Preparation of Partners capital A/c and new balance sheet of firm after admission of new partner. Adjustment of partners' Capital Accounts; adjustment of old partners' capital on the basis of new partner capital, And determining new partner capital on the basis of old partners' capital. P.A-1 EXAMINATION
AUGUST	25	D. Retirement/Death of a Partner : Change in Profit Sharing Ratio -Gaining Ratio, New ratio of partner after Retirement & death. Accounting Treatment of Goodwill. Accounting Treatment for the Revaluation of Assets and Liabilities. Adjustment of Accumulated Profits and Reserves. Methods of Adjustment of partner' capital. Calculation of profit & loss suspense A/c. Retiring partner loan A/c. Death partner's executor A/c. E. Dissolution of Partnership Firm: Meaning and modes of dissolution of partnership firm; difference between dissolution of partnership and dissolution of partnership firm; classification of assets and liabilities on basis treatment in realisation A/c. Settlement of Accounts : Preparation of Realization account and

		related accounts (excluding piecemeal distribution, commencement and dissolution of partnership firm, sale to a company and insolvency of a partner). Preparation of memorandum Balance sheet of firm.
SEPTEMBER	25	UNIT-3. Accounting of companies:- A. ISSUE AND FORFEITURE OF SHARES Meaning of company, its features, its types, difference between public company and private company and OPC. Accounting treatment of issue of share with treatment of share issued at par, premium, treatment of calls-in arrear, calls in advance, issue of share other than cash. Over-subscription of share with treatment of pro-rata allotment of shares. Forfeiture and re-issue of share and preparation of cash-book and balance sheet of company with notes to accounts (only share capital). ESOP (only theory concept). Continued REVISION FOR HALF-YEARLY EXAM HALF YEARLY EXAMINATION
OCTOBER	13	Continued Forfeiture and re-issue of share and preparation of cash-book and balance sheet of company with notes to accounts (only share capital). ESOP (only theory concept). B. ISSUE AND REDEMPTION OF DEBENTURE:- Issue of debenture at par, premium, treatment of calls-in arrear, calls in advance with condition of redemption. Redemption of debenture by lump-sum method and drawing of lots method.
NOVEMBER	24	<p style="text-align: center;">PART-B</p> UNIT-4. Analysis of financial statement:- A. Financial statement of a company;- Meaning of financial analysis; its merits and limitations; classification of items of financial statements into different headings and sub-headings. B. Tools of financial statement; Preparation of common and comparative statement analysis. C. Accounting ratio; Meaning and definition of accounting ratio, its merits and limitations, and classification of Ratio with practical approach.
DECEMBER	20	D. Cash flow statement; Meaning and definition of cash flow statement, its need and limitation; classification of items into different activities; preparation of cash flow statement as per AS-3 Revision PRE-BOARD-I EXAMINATION
JANUARY	22	PRE-BOARD- II EXAMINATION PRACTICAL EXAMINATION.
FEBRUARY	21	PRACTICAL EXAMINATION
MARCH	BOARD EXAM.	



USHA MARTIN WORLD SCHOOL, PATNA

(Session : 2024-25)

SPLIT UP SYLLABUS : CLASS – XII

Subject : BUSINESS STUDIES

MONTH	Working Days	LESSONS / TOPICS
APRIL	10	CHAPTER-1 NATURE AND SIGNIFICANCE OF MANAGEMENT: Meaning of management, nature , features and importance of management, functions of management; co-ordination and its essence in management.
MAY	10	CHAPTER-2 PRINCIPLES OF MANAGEMENT: Meaning, nature, features and significance of principles of management. 14-principles of management given by Hennerly Fayol. scientific principles of management given by F.W. Taylor, tools and techniques of scientific management. Comparison between principles of management given by hennerly fayol and F.W. taylor. Project work on study of principles of management applied in different business enterprise.
JUNE	06	CHAPTER-3 BUSINESS ENVIRONMENT:- Meaning of business environment its features and importance and dimensions of business environment. New economic policy.
JULY	25	CHAPTER-4 PLANNING: Meaning and features of planning, objective and importance of planning, planning procedure, types of plans. CHAPTER-5 ORGANISING:- Meaning and concept of organising, features, objective of organising, types of organisational structure and its importance, and types of organisation formal and informal with its difference. REVISION FOR PA- 1 EXAM P.A-1 EXAMINATION
AUGUST	25	CHAPTER-6 STAFFING: Meaning of staffing, importance and objective of staffing, types of staffing process of staffing; recruitment, selection, training and development. CHAPTER-7 DIRECTING: Meaning of directing, role of directing steps of directing or elements of directing:- supervision, motivation, leadership and communication. Features and importance of elements of directing.
SEPTEMBER	25	REVISION FOR HALF-YEARLY EXAM HALF YEARLY EXAMINATION
OCTOBER	13	UNIT-2 CHAPTER-1 FINANCIAL MANAGEMENT: Meaning and role of finance in the business, meaning of financial management , objective of financial management, investment decision, finance decision, dividend decision. Meaning of capital structure, types of capital structure, importance and role of fixed capital and working capital structure.

NOVEMBER	17	<p>CHAPTER-2 FINANCIAL MARKET : Understand the concept of financial market. Money Market: Capital market and its types (primary and secondary) Discuss the concept of capital market. Explain primary and secondary markets as types of capital market. Differentiate between capital market and money market Distinguish between primary and secondary markets. Stock Exchange - Functions and trading procedure Give the meaning of a stock exchange. Explain the functions of a stock exchange. Discuss the trading procedure in a stock exchange.</p> <p>CHAPTER-3 MARKETING MANAGEMENT: Meaning of marketing, concept of market and marketing, role of marketing in growth and development of business, marketing mix:- 4p's of marketing- product, price, place and promotion. Importance and functions of 4P's of marketing, branding, labelling, packaging advertisement its meaning and importance.</p>
DECEMBER	20	<p>CHAPTER-4 CONSUMER PROTECTION: Concept and importance of consumer protection; consumer protection Act-2019; meaning of consumer, rights and responsibilities of consumer, who can file a complaint? Redressal machinery and consumer awareness; role of consumer organisation and non-government organisation (NGOs).</p> <p>Revision & PRE-BOARD-I EXAMINATION</p>
JANUARY	22	<p>PRE-BOARD- II EXAMINATION PRACTICAL EXAMINATION</p>
FEBRUARY	21	<p>PRACTICAL EXAMINATION</p>
MARCH	BOARD EXAM.	



USHA MARTIN WORLD SCHOOL, PATNA

(Session : 2024-25)

SPLIT UP SYLLABUS : CLASS – XII

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)
		● 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)
	August	● 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
		● 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



USHA MARTIN WORLD SCHOOL, PATNA

(Session : 2024-25)

SPLIT UP SYLLABUS : CLASS – XII

Subject : PHYSICAL EDUCATION

MONTH	Working Days (Approx.)	LESSONS / TOPICS
APRIL	17	Unit I management of sporting events <ul style="list-style-type: none"> ➤ Functions of sports events management planning organising staffing directing and controlling) ➤ Various Committees & there Responsibilities (pre; during & post) ➤ Fixtures – Knock-Out (Bye & Seeding) & League (Staircase & Cyclic, tabular method) and combination tournaments ➤ Intramural & Extramural – Meaning, Objectives & Its Significance ➤ Community sports program (Sports Day, Health Run, Run For Fun, Run For Specific Cause & Run For Unity) UNIT-II children's and women's in sports <ul style="list-style-type: none"> ➤ 1. Exercise guidelines of who for different age groups. ➤ 2. Common postural deformities knock knees flat foot ground shoulders and bow legs and their lordosis is respective corrective measures. ➤ 3. Women's participation in sports physical psychological and social benefits. ➤ Special consideration menarche and mensuration dysfunction) ➤ Female athlete HD trade osteoporosis, eating disorder, amenorrhea
MAY	12	Unit III Yoga as preventive measures for lifestyle diseases <ul style="list-style-type: none"> ➤ Obesity : Procedure benefits and contradictions for tadasana, Kati chakrasana ,pawanmuktasana, matsyasana, halasana, dhanurasana ,suryabhedhan Pranayam ➤ Diabetes : Procedure benefits and contradiction for Kati chakrasana pawanmuktasana, bhujangasana, salavasna, dhanurasana ,supet vajrasana, paschimottanasana ardh ,ardh Mastendrasana. Mandukasana ,gomukhasna, yog mudra ,ushtrasna, kapalbhati. ➤ Asthma: procedure benefits and contradiction for tadasana, urdhwahastottansana, Uttaran mandhukasan, bhujangasana, dhanurasana ushtrasana, vakrasna, kapalbhati, gomukhasana, matsyasana, anulom - vilom ➤ Hypertension: Procedure benefits and contradiction for tadasana, kati chakrasana, uttanpadasana, ardh halasana,sarla matyasana, gomukasana, utthan mandhu kasna, vakrasna, bhujang asana, makrasana, shavashna ➤ Back pain: arthritis procedure benefits and contradictions of tadasana Urdhawahastootansana, chakrasana, ushtrasana, vakrasana, sarla Mastendrasana, bhujangasana, gomukhasana, bhadrasana, makarasana, nadi-shodhana pranayama

JUNE	6	Unit IV Physical Education & Sports for CWSN (Children With Special Needs-Divyang) Organization promoting disability sports special Olympics, Paralympics, Deaflympics Concept of Classification and decisioning in sports Concept of inclusion in sports it's need an implementation Advantage of physical activities for children with special needs. Strategies to make physical activity accessible for children with special needs
JULY	18	Unit V sports and nutrition *Concept of balanced diet and nutrition * Macro and micronutrients food sources and functions *Nutritive and non nutritive components of diet *Eating for weight control a healthy weight, the pitfall of dieting, food intolerance and food myths *Importance of diet in sports pre during and post competition requirements Unit VI test and measurement in sports * Fitness test-Sai khelo India fitness test in school: Age group 5 to 8 years class 1 to 3 BMI, flamingo balance test, plate tapping test * Age group 9 to 18 year's class 4 to 12 BMI,50 mt speed test,600mt run/walk, sit and reach flexibility test, (partial abdominal curl up, push ups for boys, modified push ups for girls) * Measurement of cardiovascular fitness Harvard step test duration of the exercise in seconds X 100/5.5X plus count of 1-1.5 minutes after exercise
AUGUST	21	*Computing basal metabolic rate(BMR) * Rickli and Jones senior citizen fitness test Chair stand test for lower body strength Arm curl test for upper body strength Chair seat and reach test for lower body flexibility Back scratch test for upper body flexibility Eight foot up and go taste for agility 6 minute walk test for aerobic insurance Johnsen Methney test of motor educability (front roll ,jumping ,half turn, jumping full turn
SEPTEMBER	13	Unit VII physiology and injuries in sports * Physiological factors determining components of physical fitness *Effect of exercise on the muscular system *Effect of exercise on the cardio respiratory system *Physiological changes due to aging Sports injuries: classification (soft tissue injuries- Abrasion, contusion, laceration, incision, sprain and strain, bones and joint injuries- Dislocation fractures- green stick, commuted, transverse, oblique and impacted)
OCTOBER	16	UNIT VIII biomechanics and sports Newton's law of motion and its application in sports Types of levers and their application in sports Equilibrium - dynamic and static and centre of gravity and its application in sports, Friction and sports, Projectile in sports

NOVEMBER	20	UNIT IX psychology and sports Personality it's definition and types (jung classification and big 5 theory) Motivation it's type and techniques Exercise adherence reasons benefits and strategies for enhancing it Meaning concept and types of aggression in sports Psychological attributes in sports self-esteem, mental imagery, self-talk, goal setting
DECEMBER	15	Unit X training in sports <ul style="list-style-type: none"> ➤ Concept of talent identification and talent development in sports ➤ Introduction to sports training cycle – micro, meso, macro cycle ➤ Types and methods to develop- strength, endurance and speed ➤ Types and methods to develop flexibility and coordinative ability ➤ Circuit training introduction and its importance



USHA MARTIN WORLD SCHOOL, PATNA

(Session : 2024-25)

SPLIT UP SYLLABUS : CLASS – XII

Subject : **APPLIED MATHEMATICS**

MONTH	Working Days (Approx.)	LESSONS / TOPICS	CLASS TEST NO.
APRIL	17	Numbers, Quantification and Numerical Applications 1. Modulo Arithmetic 2. Congruence modulo 3. Allegation and mixture 4. Numerical problems 5. Numerical inequalities	
MAY	11	Algebra 1. Matrices and types of matrices. 2. Equality of matrices, Transpose of a matrix symmetric and skew symmetric matrix. Algebra of matrices.	
June	6	Determinants Inverse of a matrix, solving system of simultaneous equations using matrix method and crammer's rule.	
July	26	Calculus Differentiation and its applications derivatives up to second order application of derivatives marginal cost and marginal revenue using derivatives. Increasing and decreasing function, maxima and minima. Integration and its application. Indefinite integral as a family of curves. P.A-1 EXAMINATION	
August	22	Differential equations and modelling- Formulating and solving. Differential equations <u>Probability distributions</u> Probability distribution, mathematical expectation. Variance. Binomial distribution poison distribution, normal distribution.	
September	24	Inferential statistics Population and sample. Parameter and statistics and statistical interferences. T-test (one sample t-test and for a small group sample) HALF YEARLY EXAMINATION	
October	16	Time-based data Time series, components of time series, time series analysis for univariate data, secular trend, method of measuring trend.	
November	24	Financial Mathematics Perpetuity sinking funds valuation of bonds,	

		calculation of EMI, compound annual growth rate, linear method of depreciation.	
December	23	Linear programming Introduction and related terminology. Mathematical formulation of linear programming problem. Different types of linear programming problems.	
January	24	Pre board examination	
February	23	CBSE board examination	



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SPLIT UP SYLLABUS : CLASS – XII

Subject : **PAINTING**

MONTH	WORKING DAYS. (Approx.)	SET/WEEK	CHAPTER/TOPIC
April	17	1 2 3	Unit 1:- Chapt 1:- Rajasthani school of Miniature painting
May	12	4 5	Chapt-2 :- pahari school of miniature painting
June	6	6	Unit :- 2 Capt 3:- The Mughal school of miniature painting
July	18	7	Revision P.A-1 Examination
August	21	8 9 10 11	Chapt 4:- Deccan school of miniature painting
September	23	12 13	Unit 3:- Chapt5:- Evolution of Indian national Flag Revision HALF YEARLY Examination
October	21	14 15 16 17	Capt 6:- The Bengal school of painting Origin and development.
November	19	18 19 20	Contribution of Indian Artists in struggle for National freedom movement. Chapter7:- Modern trends in Indian art.
December	20		Revision
January	21	21 22 23 24	Pre board Examination
February	20		Final Board Examination
March	21		