



DELHI PUBLIC SCHOOL R. N. EXTENSION

(Under the aegis of the Delhi Public School Society, New Delhi)

MODULE WISE SYLLABUS (SESSION: 2024-25)

Class: XI	A, B, C, D,E	Subject: ENGLISH	Name of the Teacher: PANCHALI DEB	
Module/Duration: Term-I	No. of Days	Chapters and Topics to be taught	Learning Objectives	Subject Enrichment/ Art Integration
I APRIL	9 Days	Literature The Portrait of a Lady. A Photograph Reading Comprehension Writing Skills -Poster Making.	The students will develop sponsibility and sensitivity towards grandparents and other relations in the family. <ul style="list-style-type: none"> ● know the sacrifices and support given by the family. ● show concern for animals. ● develop an independent attitude in thought and actions. ● Understand that death is the inevitable. 	Rummage through your photo album and select a photograph taken when vacationing with your family or during any celebration. Or Write a letter to your grandmother from your hostel telling her how you miss her and remember her love and care all through your childhood.
II MAY	20 Days	Literature The Summer of the Beautiful White Horse. We're not afraid to die. If We Can all be Together The Laburnum Top Writing Skills -Note Making: Introduction Grammar: Tenses	To enable the students to- <ul style="list-style-type: none"> ● read and understand between lines. ● understand the importance of societal norms and family values. ● realise that hazardous experience teaches us to face adverse situations. 	A paper yacht is to be made and various parts of the yacht to be identified and labelled.
X SUMMER VACCATION 30 MAY 2024 – 30 JUNE 2024				
III JULY	22 Days	Literature- Discovering Tut: the Saga Continues. The Address Writing Skills: Debate Grammar: Sentence Reordering.	To enable the students to- <ul style="list-style-type: none"> ● learn about various Egyptian beliefs. ● analyse the situation and characters of the chapter. ● develop respect for the rituals and customs of others. 	Write a Diary entry talking about how you felt on seeing your mother's belongings in a different setup.



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V AUGUST	19 days	Literature The Adventure Mother's Day (Play) Grammar - Clauses Writing Skills -Speech Writing.	To enable the students to- ● imbibe values like care and concern, empathy, compassion, respect for elders. ● understand, enjoy and appreciate plays. ● imbibe values like care and concern, empathy, compassion, respect for elders.	Role Play: will be done by the students. Or Talk: Is drama a good medium for conveying a social message?
2 September to 9 September 2024		REVISION FOR HALF YEARLY EXAMINATION	Term-I syllabus will be revised thoroughly along with doubt clearing. After the completion of syllabus by 30 th August 2024.	
10 September to 27 September 2024		HALF YEARLY EXAMINATION		
<u>Term II resumes: 30 September 2024</u>				
VI OCTOBER	18 Days	Literature: The Tale of the Melon City Childhood Grammar: Integrated Grammar	Students will be able to- ● Understand satire, learn to appreciate the poem and its literary devices ● appreciate the aesthetic writing.	Name different types of poems and explain how they are written. Eg. Sonnet, Haiku etc.
VII NOVEMBER	19 Days	Literature Father to Son Birth Writing Skills -Note Making with summary Grammar - Clauses	Students will be able to- ● Understand that a cordial relationship is a must between father and son. ● understand how the generation gap can create misunderstandings.	A flipbook drawing showing the distance growing between two people OR Write an article on the topic-'Medical-A Noble Profession'
VIII DECEMBER	19 Days	Literature Silk Road Writing Skills - Debate Grammar- Sentence Transformation	Students will be able to- ● know more about Tibet ● know why the silk road was called silk route. ● learn why this route was important for ancient trade	Write a travelogue as a first-person narrative describing your last vacation.



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MODULE WISE SYLLABUS (SESSION: 2024-25)

Winter Break- 30th December 2024-to 7th January 2025

IX JANUARY	18 Days	Literature The Voice of the Rain Reading Comprehension Writing Skills -Note Making, Classified Advertisement, Debate and Speech Revision for Annual Examination.	Students will be able to- <ul style="list-style-type: none">● appreciate nature and the aesthetic writing.● identify the figures of speech.	Write a speech on 'Necessity of Water Cycle for the sustenance of life'.
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Syllabus Completion January 31st 2025

Revision- Annual Examination: 3rd February 2025 to 6th February 2025

Annual Examination: 7th February 2025 to 21st February 2025



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ACADEMIC ANNUAL MODULE PLANNING (SESSION: 2024-25)

Class: XI-C & D		Subject: ACCOUNTANCY (055)		Name of the Subject Teacher: NITIN BAGGA	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
I	9 Days April 2024 (w.e.f. 18 April 2024)	Chapter-1 : (Introduction to Accounting) <ul style="list-style-type: none">● Definition of Accounting, Characteristics,● Objectives, Advantages, Limitations of Accounting; Process of Accounting and Branches of Accounting.● Difference between Accounting and Book-Keeping.● Qualitative characteristics of Accounting Information● Users of Accounting Information.● Role of Accounting.● Difference between single entry system and double entry system. Chapter – 2 (Basic Accounting Terms) <ul style="list-style-type: none">● Entity, Business Transactions and its Main Features, Capital, Liability, Assets, Revenue, Expense, Income, Debtors, Creditors, Bad Debts, Expense Outstanding, Prepaid Expense, Accrued Income, Income Received in Advance, Bills Receivables, Bills Payables, Interest on Drawings, Interest on Capital, Entity, Drawings, Purchases, Sales, Purchases Returns, Sales Returns, etc.	<ul style="list-style-type: none">● Students will be able to understand the meaning of Accounting.● Students will be able to understand the objectives, limitations, advantages, process, and branches of Accounting.● They will understand the difference between Book-Keeping and Accounting.● They will understand how accounting information is useful for internal and external users of Accounting.●	<p>PPTs will be shown which will enable the students in better understanding of the meaning of different accounting terms and the basics of Accounting.</p>	



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ACADEMIC ANNUAL MODULE PLANNING (SESSION: 2024-25)

			<ul style="list-style-type: none">• They will understand the different terms which are generally used in Accounting like Capital, Liability, Assets, Revenue, Expense, Income, Debtors, Creditors, Bad Debts, Expense Outstanding, Prepaid Expense, Accrued Income, Income Received in Advance, Bills Receivables, Bills Payables, Interest on Drawings, Interest on Capital, Entity, Drawings, Purchases, Sales, Purchases Returns, Sales Returns.	
II	20 Days May 2024	Chapter – 2 (Basic Accounting Terms) Continue.. Basic Concepts Chapter – 3 (Theory Base of Accounting, Accounting Standards and Indian Accounting Standards)	<ul style="list-style-type: none">• Students will be able to understand the importance of different	PPT



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ACADEMIC ANNUAL MODULE PLANNING (SESSION: 2024-25)

- Business Entity Concept, Dual Aspect Concept and Money Measurement Concept, Accrual Assumption, Going Concern Assumption, Consistency Assumption, Accounting Period Principle, Materiality Concept, Full Disclosure Principle, Prudence Concept, Historical Cost Concept, Revenue Recognition Concept, Matching Concept, Verifiable Objective Concept, and Indian Accounting Standards and Ind- Accounting Standards

Chapter – 4 (Bases of Accounting)

- Accrual Bases of Accounting
- Cash Bases of Accounting
- Advantages and Disadvantages of Accrual and Cash Bases of Accounting.

Chapter – 5 (Accounting Equation)

- Meaning and purpose of Accounting Equation.
- Effect of transactions on Accounting Equation
- Meaning of Debit (Dr.) and Credit (Cr.)
- Rules of Debit and Credit
- Format of preparing Accounting Equation.
- Related numerical.

accounting assumptions, concepts, and principles.

- They will learn the meaning and objective of different accounting concepts/ principles like Business Entity Concept, Dual Aspect Concept and Money Measurement Concept, Accrual Assumption, Going Concern Assumption, Consistency Assumption, Accounting Period Principle, Materiality Concept, Full Disclosure Principle, Prudence Concept, Historical Cost Concept, Revenue Recognition Concept, Matching Concept, Verifiable Object Concept



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			<ul style="list-style-type: none"> • They will be able to know the basics about Accounting Standards and Ind-Accounting Standards. • Students shall understand the meaning and difference between Cash Bases and Accrual Bases of Accounting. • They will be able to prepare the accounting equation in a proper format. • They will be able to understand the basic concepts of debit and credit. 	
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Summer Vacation: 30 May 2024 to 30 June 2024

School Reopens: 1 July 2024

III	22 Days July 2024	Chapter – 6 (Accounting Procedures Rules of Debit and Credit) <ul style="list-style-type: none"> • Modern Approach • Traditional Approach • Rules of Debit and Credit • Preparation of ‘T’ Shape Account 	<ul style="list-style-type: none"> • They will be able to know the accounts which need to be debited and credited by using Modern and 	NA
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ACADEMIC ANNUAL MODULE PLANNING (SESSION: 2024-25)

Chapter-7 (Origin of Transactions- Source Documents and Preparation of Vouchers)

- Cash Memo, Invoice, Receipt, Cheque, Pay-in-Slip, Debit Note, Credit Note, Debit Voucher, Credit Voucher and Transfer Voucher

Chapter – 8 (Journal)

- Types of Journal Entries.
- Format of Journal.
- Features of journal
- Trade Discount and Cash Discount.
- Different types of numerical related to Expense Outstanding, Prepaid Expense, Accrued Income, Income Received in advance, HPP, Life Insurance and other advanced transactions.
- Different types of numerical related to Journal.

Traditional Approach of Accounting.

- Able to Prepare 'T' Shape Account on the basis of debit and credit golden rules..
- They will understand the need for different source documents and vouchers.
- Able to understand the need of source documents-legal requirement.
- They will know the difference between different types of source documents like Cash Memo, Invoice, Receipt, Cheque, Pay-in-Slip, Debit Note, Credit Note.
- They will learn how to record the transactions in a proper format of



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			journal and what is the basis behind debiting or crediting an account.	
IV	19 Days August 2024	<p>Chapter – 8 (Journal) – Continue.....</p> <ul style="list-style-type: none"> ● Nature of books of original entry ● Advantages and limitation of journal ● Rules of Journalizing ● Golden rules of debit and credit ● Recoding of Journalizing ● Some more numerical. <p>Chapter – 9 (Ledger)</p> <ul style="list-style-type: none"> ● Meaning and purpose of Ledger. ● Format of Ledger ● Posting and Balancing <p>Introduction of Chapter – 14 (Trial Balance)*</p> <ul style="list-style-type: none"> ● Meaning of Trial Balance. ● Types of Trial Balance. ● Format of Trial Balance and its preparation. <p>Chapter-10 (Special Purpose Books I–Cash Book)</p> <ul style="list-style-type: none"> ● Types of Cash Book. ● Preparation of Single-Columnar Cash Book and Double-Columnar Cash Book. 	<ul style="list-style-type: none"> ● They will be able to practice more numerical for perfection. ● They will understand how to post the recorded transactions in the ledger and how to balance the ledger accounts. ● They will be able to summarize the classified transactions in Trial Balance. <p>Preparation of Simple as well as Double-Columnar Cash Book will be understood by the students in a proper format.</p>	NA

Syllabus Completion: 30 August 2024

Revision-Half Yearly Examination: 2 September 2024 to 9 September 2024

Half Yearly Examination: 10 September 2024 to 27 September 2024

Second Term Resume: 30 September 2024



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V	18 Days October 2024	<p>Chapter-10 (Special Purpose Books I–Cash Book)- Continue.....</p> <ul style="list-style-type: none"> ● Practical Problems <p>Chapter–10 (Special Purpose Books I–Cash Book)</p> <ul style="list-style-type: none"> ● Some more numerical of Cash Book. <p>Chapter–11 (Special Purpose Books II–Other Books)</p> <ul style="list-style-type: none"> ● Preparation of Purchases Book and SalesBook. ● Preparation of Purchases Return Book,Sales Return Book and Journal Proper. <p>Chapter 12- (Goods and Services Tax)</p> <ul style="list-style-type: none"> ● Meaning of GST ● Objectives or advantages of GST. ● Basics of GST ● Need of GST ● Rates of GST ● Types of GST ● Reverse Charge of GST ● Accounting Procedure <p>Chapter–13 (Bank ReconciliationStatement)</p> <ul style="list-style-type: none"> ● Definition of Bank Reconciliation Statement. ● Reasons for mismatch in the balance ofCash Book and Passbook. Format of Bank ReconciliationStatement and related numerical. 	<ul style="list-style-type: none"> ● They will be able to practice more numerical for perfection. ● They will understand how to prepare Purchases Book and Sales Book in proper format. ● They will understand how to prepare Purchases Return Book and Sales Return Book in proper format and Journal Proper. ● They will understand the concepts of GST and able to prepare journal entries. ● Students would be able to know the tax system under GST. They will know the need for introducing GST. ● They will understand about the different types of GST. ● They will know the meaning of Reverse Charge of GST. 	<p>Project based on Bank Reconciliation Statement which enables the student to understand how the Cash Book and Pass Book are rectified in real life.</p>
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			<ul style="list-style-type: none"> ● Students will learn the reasons for mismatch in the balances in Cash Book and Passbook. ● They will be able to prepare a Bank Reconciliation Statement in a proper format. 	
VI	19 Days November 2024	<p>Chapter – 14 (Trial Balance)*</p> <ul style="list-style-type: none"> ● Meaning of Trial Balance ● Objective of Preparing Trial Balance ● Preparation of Trial Balance <p>Chapter – 15 (Depreciation)</p> <ul style="list-style-type: none"> ● Definition of Depreciation. ● Causes of Depreciation. ● Types of Depreciation. ● Need for charging Depreciation. ● Methods of charging Depreciation. ● Distinction between Straight line method and Written down value method ● Preparation of Assets A/c and Provision for Depreciation A/c ● Assets Disposal Account* ● Numerical Problems based on depreciation <p>Chapter-16 (Provisions and Reserves)</p> <ul style="list-style-type: none"> ● Meaning of Reserves and Provisions. ● Difference between Provisions and Reserves. ● Different types of Reserves. 	<ul style="list-style-type: none"> ● After Studying this chapter students will be able to understand the meaning of trial balance and objective of preparing trial balance, need of trail balance for the financial statements. ● Students will understand the meaning of depreciation, its causes, types, and the needfor charging depreciation. ● They will be able to prepare Assets A/c and Provision for Depreciation A/c by using different methods (SLM and WDV). 	



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			<ul style="list-style-type: none"> ● They will be able to know the meaning of Reserves and Provisions and its difference. ● They will also understand the different types of Reserves, i.e. Capital Reserve and Revenue Reserve, Secret Reserve, etc. 	
VII	19 Days December 2024	<p>Chapter – 17 (Rectification of Errors)</p> <ul style="list-style-type: none"> ● Meaning of rectifying entries. ● Types of errors. ● Entries to rectify the one-sided and two-sided errors. ● Meaning and Utility of Suspense Account <p>Chapter–18 (Financial Statements of Sole Proprietorship)</p> <ul style="list-style-type: none"> ● Meaning of financial statements. ● Components of financial statements. ● Types of Expenses. ● Difference between Capital expenditure and Revenue expenditure ● Difference between Capital receipts and Revenue receipts ● Difference between Capital Profit and Revenue Profit ● Purpose of Trading and Profit & Loss A/c. ● Difference between Trading and Profit & Loss A/c. ● Preparation of Trading A/c and Profit & Loss A/c. ● Meaning, Need and Preparation of Balance Sheet and Format of Balance sheet 	<ul style="list-style-type: none"> ● Students will be able to understand the different types of errors. ● They will understand how to rectify different types of errors. ● Students will understand the meaning of financial statements. ● They will know about the different components of Financial Statements. ● They will also understand the difference between direct and indirect 	



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- Difference between Trail Balance and Balance Sheet
- Grouping and Marshalling of Assets and Liabilities.

expenses.

- They will learn the need to prepare trading, profit & loss A/c and balance sheet. Students would be able to prepare Trading and Profit & Loss A/c.

Winter Break: 30th December 2024 to 7th January 2025

School Reopens: 8 January 2025

Chapter–18 (Financial Statements of Sole Proprietorship)

- Preparation of Balance Sheet.
- Full Fledged Questions.

Chapter – 19 (Adjustments in Preparation of Financial Statements)

Adjustment relating to Closing Stock, Expense Outstanding, Prepaid Expenses, Accrued Income, Income received in advance, Depreciation, Bad Debts, Provision for Doubtful Debts, Provision for Discount on Debtors.

Adjustment relating to Manager’s Commission, Goods withdrawn by proprietor for personal use, Goods distributed as Free Samples and Goods given as Charity. Interest on Capital, Interest on Drawings, Loss by fire and Implied Adjustments, etc..

Accounts Project

Chapter – 20 (Accounting from Incomplete Records – Single Entry

- Students will learn how to prepare the balance sheet of a sole proprietorship business.
- They will be able to solve full-fledged numerical problems.
- Students shall understand the treatment of different adjustments in financial statements, i.e.

Comprehensive Project will be discussed helping the students how the recording, classification and summarising of financial transactions are done under Double Entry System and how the analysis of financial statements be concluded.

VIII

18 Days
January
2025



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System)

- Meaning of Single Entry System.
- Difference between Single Entry and Double Entry System.
- Methods of calculating profits/losses under Single Entry System.
- Calculation of profits/losses by Statement of Affairs method.

Closing Stock,
Expense
Outstanding,
Prepaid Expenses,
Accrued Income,
Income received in
advance,
Depreciation, Bad
Debts, Provision
for Doubtful
Debts, Provision
for Discount on
Debtors.

- Students shall understand the treatment of different adjustments in financial statements, i.e. Manager's Commission,
- Implied Adjustments.
- Students would be able to know the meaning of the Single Entry System.
- They will understand the difference between Single Entry and



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			Double Entry System. ● They will learn how to calculate profits/losses under the Statement of Affairs method.	
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Syllabus Completion: 31 January 2025

Revisions- Annual Examination: 3 February 2025 to 6 February 2025

Annual Examination: 7 February 2025 to 21 February 2025



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ACADEMIC ANNUAL MODULE PLANNING(SESSION: 2024-25)

Class: XI		Subject: BUSINESS STUDIES		Name of the Subject Teacher: Ms. POOJA KOHATI	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
1. April (18 April 2024)	09	CH 1: Evolution and Fundamentals of Business <ul style="list-style-type: none"> ◆ History of Trade and Commerce in India ◆ Business – meaning and characteristics ◆ Business, profession and employment-concept ◆ Objectives of business ◆ Classification of business activities - Industry and Commerce ◆ Industry-types: primary, secondary, tertiary :Meaning and subgroups Commerce-trade and auxiliaries to trade ; meaning	The students would be able to: <ul style="list-style-type: none"> ◆ Acquaint the History of Trade and Commerce in India ◆ Understand the meaning of business with special reference to economic and non-economic activities. ◆ Discuss the characteristics of business. ◆ Understand the concept of business, profession and employment. ◆ Differentiate between business, profession and employment. ◆ Appreciate the economic and social objectives of business. ◆ Examine the role of profit in business. ◆ Understand the broad categories of business activities- industry and commerce. ◆ Describe the various types of industries. ◆ Discuss the meaning of commerce, trade and auxiliaries to trade and their types. ◆ Understand the concept of risk as a special characteristic of business & examine the nature and causes of business risks. 	SCHEMA: A flowchart based activity to show different types of industries. Research Presentation: Make In India	
2. May (Up-to 29 May 2024)	20	CH 2: Forms of Business organizations <ul style="list-style-type: none"> ◆ Sole Proprietorship-Concept, merits and limitations. ◆ Partnership-Concept, types, merits and 	<ul style="list-style-type: none"> ◆ List the different forms of business organizations and understand their meaning. ◆ Identify and explain the concept, merits and limitations of Sole Proprietorship. 	PROJECT WORK On any one of the following topics:	



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		<p>limitation of partnership, registration of a partnership firm, partnership deed. Types of partners</p> <ul style="list-style-type: none"> ◆ Hindu Undivided Family Business: Concept ◆ Cooperative Societies-Concept, merits, and limitations. ◆ Company - Concept, merits and limitations; Types: Private, Public and One Person company – Concept ◆ Formation of company - stages, important documents to be used in formation of a company ◆ Choice of form of business organization 	<ul style="list-style-type: none"> ◆ Identify and explain the concept, merits and limitations of a Partnership firm. ◆ Understand the types of partnership on the basis of duration and liability. ◆ State the need for registration of a partnership firm. ◆ Discuss the types of partners –active, sleeping, secret, nominal and partner by estoppel. ◆ Understand the concept of HUF Business. ◆ Identify and explain the concept, merits and limitations of Cooperative Societies. ◆ Understand the concept of consumers, producers, marketing, farmers, credit and housing co-operatives. ◆ Identify and explain the concept, merits and limitations of private and public companies. ◆ Understand the meaning of one person company. ◆ Distinguish between a private company and a public company. ◆ Highlight the stages in the formation of a company. ◆ Discuss the important documents used in the various stages in the formation of a company. ◆ Distinguish between the various forms of business organizations. ◆ Explain the factors that influence the choice of a suitable form of business organization. 	<ol style="list-style-type: none"> 1. Field visit 2. Case study on a product. 3. Aids to Trade 4. Import/ Export procedure 5. Visit to any State Emporium
		<p><u>SUMMER VACATION: 30May 2024 to 30 June 2024</u></p>		



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<p>3. July</p>	<p>22</p>	<p>CH 3: Public, Private and Global Enterprises</p> <ul style="list-style-type: none"> ◆ Public sector and private sector enterprises – Concept ◆ Forms of public sector enterprises: Departmental Undertakings, Statutory Corporations and Government Company. ◆ Global Enterprises – Feature. ◆ Public Private Partnership – concept <p>CH 4: Business Services</p> <ul style="list-style-type: none"> ◆ Business services – meaning and types. ◆ Banking: Types of bank accounts - savings, current, recurring, fixed deposit and multiple option deposit account ◆ Banking services with particular reference to Bank Draft, Bank Overdraft, Cash credit. E-Banking meaning, Types of digital payments 	<ul style="list-style-type: none"> ◆ Develop an understanding of Public sector and private sector enterprises ◆ Identify and explain the features, merits and limitations of different forms of public sector enterprises ◆ Develop an understanding of global enterprises, Public Private Partnership by studying their meaning and features. ◆ Understand the meaning and types of business services. ◆ Develop an understanding of difference types of bank account. ◆ Develop an understanding of the different services provided by banks ◆ 	<p>PEER TO PEER LEARNING-SHARING INTERNSHIP EXPERIENCE</p> <p>EDUFIN CONCLAVE AT DPS RN EXTENSION</p>
<p>4 August 2024 (Up-to 30 August 2024)</p>	<p>19</p>	<p>CH 4: Business Services</p> <ul style="list-style-type: none"> ◆ Insurance – Principles. Types – life, health, fire and marine insurance – concept <p>Postal Service - Mail, Registered Post, Parcel, Speed Post, Courier</p> <p>CH 5: Emerging Modes of Business</p> <ul style="list-style-type: none"> ◆ E - business: concept, scope and 	<ul style="list-style-type: none"> ◆ Recall the concept of insurance, understand the principles of insurance. ◆ Discuss the meaning of different types of insurance-life, health, fire, marine insurance. ◆ Understand the utility of different telecom service ◆ Give the meaning of e-business. ◆ Discuss the scope of e-business. ◆ Appreciate the benefits of e-business 	<p>PEER TO PEER LEARNING-SHARING INTERNSHIP EXPERIENCE</p>



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		benefits .	◆ Distinguish e-business from traditional business.	
		<u>Syllabus Completion: 30 August 2024</u>		
		<u>Revision-Half Yearly Examination: 2 September 2024 to 9 September 2024</u>		
		<u>Half Yearly Examination: 10 September 2024 to 27 September 2024</u>		
		<u>Second Term Resumes: 30 September 2024</u>		
5. October 2024	18	<p>CH 6: Social Responsibility of Business and Business Ethics</p> <ul style="list-style-type: none"> ◆ Concept of social responsibility ◆ Case of social responsibility ◆ Responsibility towards owners, investors, consumers, employees, government and community. ◆ Role of business in environment protection ◆ Business Ethics - Concept and Elements <p>Unit 7: Sources of Business Finance</p> <ul style="list-style-type: none"> ◆ Concept of business finance ◆ Owners' funds- equity shares, preferences share, retained earnings ◆ Borrowed funds: debentures and bonds, loan from financial institution and commercial banks, public deposits, trade credit, Inter Corporate Deposits (ICD). 	<ul style="list-style-type: none"> ◆ State the concept of social responsibility. ◆ Examine the case for social responsibility. ◆ Identify the social responsibility towards different interest groups. ◆ Appreciate the role of business in environment protection. ◆ State the concept & elements of business ethics. ◆ State the meaning, nature and importance of business finance. ◆ Classify the various sources of funds into owners' funds. ◆ State the meaning of owners' funds. ◆ State the meaning of borrowed funds & discuss the concept of debentures, bonds, loans from financial institutions and commercial banks, Trade credit and Inter Corporate deposits. ◆ Distinguish between owners' funds and borrowed funds. 	<p>An INSIGHT into the case for and against social responsibility of business</p> <p>ANALYSIS OF COMPANY'S BALANCE SHEET An activity involving thorough research and presentation on given topic.</p>



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6. November 2024	19	<p>Unit 8: Small Business and Enterprises</p> <ul style="list-style-type: none"> ◆ Entrepreneurship Development (ED): Concept, Characteristics and need. ◆ Process of Entrepreneurship Development: ◆ Start-up India Scheme, ways to fund start-up. Intellectual Property Rights and Entrepreneurship ◆ Small scale enterprise as defined by MSMED Act 2006. ◆ Role of small business in India with special reference to rural areas ◆ Government schemes and agencies for small scale industries: National Small Industries Corporation (NSIC) and District Industrial Centre (DIC) with special reference to rural, backward areas 	<ul style="list-style-type: none"> ◆ Understand the concept of Entrepreneurship Development (ED), Intellectual Property Rights ◆ Understand the meaning of small business ◆ Discuss the role of small business in India ◆ Appreciate the various Government schemes and agencies for development of small scale industries- NSIC and DIC with special reference to rural, backward area. 	<p>VISIT TO NSIC or SMALL SCALE INDUSTRIES- A Visit where students would understand the skills of local artisan and locally produced goods/product, that would have demand in future and attracting investors for investment.</p>
7. December 2024	19	<p>CH 9: Internal Trade</p> <ul style="list-style-type: none"> ◆ Internal trade - meaning and types services rendered by a wholesaler and a retailer ◆ Types of retail-trade-Itinerant and small scale fixed shops retailers ◆ Large scale retailers-Departmental stores, chain stores - concept ◆ GST (Goods and Services Tax): 	<ul style="list-style-type: none"> ◆ State the meaning and types of internal trade. ◆ Appreciate the services of wholesalers and retailers. ◆ Explain the different types of retail trade. ◆ Highlight the distinctive features of departmental stores, chain stores and mail order business. ◆ Understand the concept of GST ◆ Understand the concept of international trade. 	



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		Concept and key-features	Describe the scope of international trade to the nation and business firms.	
		<u>Winter Break: 30 December 2024 to 7 January 2025</u>		
8. January 2025 (Up- to 31 January 2025)	18	<u>School Reopens: 8 January 2025</u> CH 10: International Trade <ul style="list-style-type: none"> ◆ Export trade – Meaning and procedure ◆ Import Trade - Meaning and procedure ◆ Documents involved in International Trade; indent, letter of credit, shipping order, shipping bills, mate’s receipt (DA/DP) ◆ World Trade Organization (WTO) meaning and objectives 	<ul style="list-style-type: none"> ◆ State the meaning and objectives of export & import trade. ◆ Explain the important steps involved in executing export & import trade. ◆ Develop an understanding of the various documents used in international trade. ◆ Identify the specimen of the various documents used in international trade. ◆ Highlight the importance of the documents needed in connection with international trade transactions. <p>State the meaning of WTO & discuss its objectives in promoting international trade</p>	Participation in International Commerce Olympiad.
		<u>Syllabus Completion: 31 January 2025</u>		
		<u>Revision- Annual Examination: 3 February 2025 to 6 February 2025</u>		
		<u>Annual Examination: 7 February 2025 to 21 February 2025</u>		



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ACADEMIC ANNUAL MODULE PLANNING(SESSION: 2024-25)

Class: XI		Subject: ECONOMICS (030)		Name of the Subject Teacher: MR. ACHINT BAJPAI	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
1. April (18 April 2024)	09	Part B: Introductory Microeconomics Unit 4: Introduction Meaning of microeconomics and macroeconomics; positive and normative economics What is an economy? Central problems of an economy: what, how and for whom to produce; concepts of production possibility frontier and opportunity cost	To understand the rationale behind determining a situation where a consumer attains rest? How will he react in a situation if he is disturbed from such a position in case he measures his utility in numbers or he ranks them? To understand the idea of the term demand and how it differentiates with a desire and a want.		
2. May (Up-to 29 May 2024)	20	Demand and Supply and their Elasticities Demand , market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve; price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand – percentage-change method. Supply, market supply, determinants of supply, supply schedule, supply curve and its slope,	To develop a sound distinction between the effects on a consumer's demand and quantity demanded in case of various factors affecting demand, situations which breach the standard law of demand and also the numerical expression to the law of demand .	Application through schedules, graphs and Numerical.	



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		movements along and shifts in supply curve, price elasticity of supply; measurement of price elasticity of supply - percentage-change method.	To understand the basis of the relationship between price , quantity supplied and other factors affecting supply of a firm.	
		Summer Vacation: 30 May 2024 to 30 June 2024		
		School Reopens: 1 July 2024		
3. July	22	<p>Consumer's equilibrium - meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis.</p> <p>Analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium.</p> <p>Measures of Central Tendency- Arithmetic mean, median and mode</p>	<p>The students will be able to understand the difference between measuring consumer's equilibrium by cardinal and ordinal approach and also determine graphical interpretation of the concepts.</p> <p>The students shall be able to calculate and understand working of average, median ,mode and also differentiate between them as various measures of central tendency</p>	Diagrammatic and Tabular Presentation
4 August 2024 (Up- to 30 August 2024)	19	<p>Measures of Dispersion - absolute dispersion (range, quartile deviation, and standard deviation*); relative dispersion (co-efficient of range, co-efficient of quartile-deviation).</p> <p>Correlation – meaning and properties,</p>	<p>To mark a difference between various absolute and relative measures of dispersion vis their calculation.</p> <p>To develop an understanding between two variables whether directly or indirectly correlated.</p>	Working Numerical Numerical Problems



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		scatter diagram; Measures of correlation - Karl Pearson's method (two variables ungrouped data) Spearman's rank correlation.	To gain proficiency in developing a correlation by Karl Pearson's method and Spearman's rank correlation.	
		<u>Syllabus Completion: 30 August 2024</u>		
		<u>Revision-Half Yearly Examination: 2 September 2024 to 9 September 2024</u>		
		<u>Half Yearly Examination: 10 September 2024 to 27 September 2024</u>		
		<u>Second Term Resumes: 30 September 2024</u>		
5. October 2024	18	<p>Introduction to Index Numbers - meaning, types - wholesale price index, consumer price index and index of industrial production, uses of index numbers; Inflation and index numbers.</p> <p>Introduction What is Economics? Meaning, scope, functions and importance of statistics in Economics</p> <p>Collection, Organisation and Presentation of data</p> <p>Collection of data - sources of data - primary and secondary; how basic data is collected with concepts of Sampling; methods of collecting data; some important sources of secondary data:</p>	<p>To gain sound knowledge on various price and quantity indexes which help in assessing the cost of living index in a particular year.</p> <p>Students will be able to understand the meaning of statistics as a discipline of economics, its limitations, Functions and opinions.</p> <p>The student shall be able to differentiate between various sources of collecting data and also recall the classification of data into primary and secondary.</p>	<p>Numerical Problems</p> <p>Quiz and Multiple Choice Questions.</p>



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		<p>Census of India and National Sample Survey Organisation.</p> <p>Organisation of Data: Meaning and types of variables; Frequency Distribution.3 Presentation of Data: Tabular Presentation and Diagrammatic</p> <p>Presentation of Data: (i) Geometric forms (bar diagrams and pie diagrams), (ii) Frequency diagrams (histogram, polygon and Ogive) and (iii) Arithmetic line graphs (time series graph)</p>	<p>Students will be able to arrange and present data in tabular form and also differentiate between different types of tables.</p> <p>They shall also be able to present the data graphically via various tools histogram, polygon, ogive and mark a difference between them</p>	<p>Quiz and Multiple Choice Questions.</p>
<p>6. November 2024</p>	<p>19</p>	<p>Produce's Behaviour Meaning of Production Function – Short-Run and Long-Run Total Product, Average Product and Marginal Product. Returns to a Factor: Law of Variable Proportions.</p> <p>Cost and Revenue:- Different types of cost and their relationships.</p> <p>Producer's equilibrium - meaning and its conditions in terms of marginal revenue - marginal cost.</p>	<p>The student shall be able to understand the way a firm operates in short period wherein a distinction between variable and fixed factors of production can be marked. He shall also be able to understand the various aspects of production in a firm and their behavioural pattern in the short period via a standardised law.</p> <p>To enhance the fundamental principle of stability or position of rest to a firm by utilising the previous concepts of cost and revenue.</p> <p>To emphasise on the expenditures incurred by a firm in the production of a commodity whether monetary or non-monetary and their behavioural pattern usually in short period. Also post sales income i.e. revenue shall be</p>	<p>Application through schedules, graphs and Numerical.</p> <p>Also utilising the fundamentals of cost and revenue.</p>



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			understood by the student in case of various market conditions so as to create a sound foundation for understanding the concept of a producer's equilibrium	
7. December 2024	19	<p>Forms of Market and Price Determination under Perfect Competition with simple applications.</p> <p>Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply.</p> <p>Other Market Forms - monopoly, monopolistic competition - their meaning and features</p>	To learn what are the key features of a market? and identify the difference between various forms of market existent as part of syllabus including their features and implications.	Real world examples /case studies.
		<u>Winter Break: 30 December 2024 to 7 January 2025</u>		
		<u>School Reopens: 8 January 2025</u>		
8. January 2025 (Up- to 31 January 2025)	18	Revision `for Annual Exams	To make students understand the working and the key areas of statistics in real world application.	
		<u>Syllabus Completion: 31 January 2025</u>		
		<u>Revision- Annual Examination: 3 February 2025 to 6 February 2025</u>		
		<u>Annual Examination: 7 February 2025 to 21 February 2025</u>		



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ACADEMIC ANNUAL MODULE PLANNING (SESSION: 2024-25)

Class: XI		Subject: APPLIED MATHEMATICS		Name of the Subject Teacher: Mr ASHISH PUNJ	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
I	9	UNIT – 1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS(Contd.)	<p>Pupil will be able to :</p> <ul style="list-style-type: none">Express decimal numbers in binary systemExpress binary numbers in decimal systemRelate indices and logarithm /antilogarithmFind logarithm and antilogarithms of given numberEvaluate the angular value of a minuteCalculate the angle formed between two hands of clock at given timeCalculate the time for which hands of clockDetermine Odd days in a month/ year/ centuryDecode the day for the given dateSolve word problems based on given topicTo solve numerical applications based on calendar,time,work & distance , mensuartion etc.	Project on evolution of LOGARITHMS	
II	20	UNIT – 1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS(Contd.) UNIT – 2 ALGEBRA (Contd.)	<p>Pupil will be able to</p> <ul style="list-style-type: none">Define sets.Differentiate between types of sets.Solve word problems related to it.Define relationCategorise different type of relations.To recall different sets of statements along with special words/phrases.		



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Half Yearly Examination: 10 September 2024 to 27 September 2024

Second Term Resumes: 30 September 2024

V	18	UNIT 4: CALCULUS (contd.) UNIT 5 : PROBABILITY	<ul style="list-style-type: none">To recall the concept of limits.To differentiate mathematical functions. To use product rule & quotient rule in differentiating given functions <ul style="list-style-type: none">To define sample space for given events.To find probability for different set of events. To solve problems based on BAYES' theorem	To find slope of a function graphically.
VI	19	UNIT 6 : DESCRIPTIVE STATISTICS	<ul style="list-style-type: none">To recall basic concepts of simple interest and compound interest. To solve problems related to it. <ul style="list-style-type: none">To find mean deviation from median & mean To find mean, standard deviation & variance for given observations	
VII	19	UNIT 7 : FINANCIAL MATHEMATICS(contd.)	<ul style="list-style-type: none">To recall basic concepts of simple interest and compound interest. To solve problems related to annuity. To find income tax, electricity bill, water bill etc.	Project on BILLS
Winter Break: 30 December 2024 to 7 January 2025				
VIII	18	UNIT 7 : FINANCIAL MATHEMATICS(contd.) REVISION FOR ANNUAL EXAMINATION	<ul style="list-style-type: none">Define with examples the concept of effective rate of interest.Interpret the concept of compounding and discounting along with practical applicationsCompute net present value	



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			•Apply net present value in capital budgeting decisions	
SYLLABUS COMPLETION : 31.01.2025				
REVISION ANNUAL				



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ACADEMIC ANNUAL MODULE PLANNING(SESSION: 2024-25)

Class: XI		Subject: PHYSICAL EDUCATION		Name of the Subject Teacher: Mr. ARJUN BISHT	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
1. April (18 April 2024)	09	Unit – I Changing Trends and Careers in Physical Education 1. Concept, Aims & Objectives of Physical Education 2. Development of Physical Education in India – Post Independence 3. Changing Trends in Sports- playing surface, wearable gear and sports equipment, technological advancements 4. Career options in Physical Education 5. Khelo-India Program and Fit – India Program	<ul style="list-style-type: none">To make the students understand the meaning, aims, and objectives of Physical Education.To Teach students about the development of physical education in India after Independence.To educate students about the development of sports surfaces, wearable gear, sports equipment, and technology.To make students know the different career options available in the field.To make them know about the Khelo India Program	PPT on different career options.	
2. May (Up- to 29 May 2024)	20	Unit – II Olympism Value Education 1. Olympism – Concept and Olympics Values (Excellence, Friendship & Respect) 2. Olympic Value Education – Joy of Effort, Fair Play, Respect for Others, Pursuit of Excellence, Balance Among Body, Will & Mind 3. Ancient and Modern Olympics 4. Olympics - Symbols, Motto, Flag, Oath, and Anthem. 5. Olympic Movement Structure-IOC, NOC, IFS, Other members	<ul style="list-style-type: none">To make the students aware of Concepts and Olympics Values (Excellence, Friendship & Respect)To make students learn about Olympic Value Education – Joy of Effort, Fair Play, Respect for Others, Pursuit of Excellence, Balance Among Body, Will & MindTo make students understand ancient and modern Olympic games.To make the students aware of Olympics - Symbols, Motto, Flag, Oath, and Anthem.To make students learn about the working and functioning of IOC, NOC and IFS, and other members	Prepare a chart of Olympic Symbols.	



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SUMMER VACATION: 30May 2024 to 30 June 2024

School Reopens: 1 July 2024

3. July	22	<p>Unit – III Yoga</p> <ol style="list-style-type: none"> 1. Meaning and importance of Yoga 2. Introduction to Astanga Yoga 3. Yogic Kriyas (Shat Karma) 4. Pranayama and its types. 5. Active Lifestyle and stress management through Yoga. <p>Unit – IV Physical Education and Sports for Children with Special Needs</p> <ol style="list-style-type: none"> 1. Concept of Disability and Disorder 2. Types of Disability, its causes & nature (Intellectual disability, Physical disability). 3. Disability Etiquette 4. Aim and objectives of Adaptive Physical Education. 5. Role of various professionals for children with special needs (Counselor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist, And Special Educator) 	<ul style="list-style-type: none"> • To make the students aware of the meaning and importance of yoga • To make them learn about Astanga yoga. • To teach students about yogic kriya, specially shat karmas. • To make the learn and practice types of Pranayama. • To make them learn the importance of yoga in stress management. • To make the students aware concept of Disability and Disorder. • To make students aware of different types of disabilities. • To make students learn about Disability Etiquette. <p>To make the students Understand the aims and objectives of Adaptive Physical Education</p> <p>To make students aware of role of various professionals for children with special needs</p>	Pictorial presentations of different yogic kriyas.
4 August 2024 (Up-to 30 August 2024)	19	<p>Unit – V Physical Fitness, Wellness, and Lifestyle</p> <ol style="list-style-type: none"> 1. Meaning & importance of Wellness, Health, and Physical Fitness. 2. Components/Dimensions of Wellness, Health, and Physical Fitness 3. Traditional Sports & Regional Games for promoting wellness 	<ul style="list-style-type: none"> • To make the students understand the Meaning & importance of Wellness, Health, and Physical Fitness • To make students aware of the Components/Dimensions of Wellness, Health, and Physical Fitness • To make students learn Traditional Sports & 	



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		<p>4. Leadership through Physical Activity and Sports.</p> <p>5. Introduction to First Aid –PRICE.</p> <p>Unit – VI Test, Measurement & Evaluation</p> <p>1. Define Test, Measurements and Evaluation.</p> <p>2. Importance of Test, Measurements and Evaluation in Sports.</p> <p>3. Calculation of BMI, Waist – Hip Ratio, Skin fold measurement (3-site)</p> <p>4. SomatoTypes (Endomorphy, Mesomorphy & Ectomorphy).</p> <p>5. Measurements of health-related fitness.</p>	<p>Regional Games to promote wellness</p> <ul style="list-style-type: none"> To develop Leadership qualities through Physical Activity and Sports in students To make students learn First Aid and its management skills. To Introduce the students with the terms like test, measurement and evaluation along with its importance. To Introducing them the methods of calculating BMI, Waist-hip ratio and Skinfold measurement. To make the students aware of the different somatotypes. To make the students learn the method to measure health-related fitness. 	<p>Prepare a creative test for checking any particular skills.</p>
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Syllabus Completion: 30 August 2024

Revision-Half Yearly Examination: 2 September 2024 to 9 September 2024

Half Yearly Examination: 10 September 2024 to 27 September 2024

Second Term Resumes: 30 September 2024

5. October 2024	18	<p>Unit – VII Fundamentals of Anatomy, Physiology in Sports</p> <p>1. Definition and importance of Anatomy and Physiology in Exercise and Sports.</p> <p>2. Functions of Skeletal System, Classification of Bones, and Types of Joints.</p> <p>3. Properties and Functions of Muscles.</p> <p>4. Structure and Functions of Circulatory System and Heart.</p> <p>5. Structure and Functions of Respiratory System</p>	<ul style="list-style-type: none"> The students will learn the meaning and definition & identify the importance of anatomy, physiology, and kinesiology. Students will understand the main functions and Classification of Bone and the Types of Joints. The students will learn the Properties and Functions of Muscles. The students will learn the Structure and Functions of the Circulatory System and Heart. The students will learn the Structure and Functions of Respiratory System. 	<p>Anatomical art for Athletes.</p>
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6. November 2024	19	Unit – VIII Fundamentals Of Kinesiology And Biomechanics in Sports 1. Definition and Importance of Kinesiology and Biomechanics in Sports. 2. Principles of Biomechanics 3. Kinetics and Kinematics in Sports. 4. Types of Body Movements-Flexion, Extension, Abduction, Adduction, Rotation, Circumduction, Supination & Pronation. 5. Axis and Planes – Concept and its application in body movements	<ul style="list-style-type: none"> To make the students learn the principles of biomechanics. To make the students understand the concept of Kinetics and Kinematics in Sports To make the students learn about different types of body movements. To make the students understand the concept of Axis and Planes and its application in body movements. 	Prepare a Chart on different movements.
7. December 2024	19	Unit – IX Psychology and Sports 1. Definition & Importance of Psychology in Physical Education & Sports; 3. Developmental Characteristics at Different Stages of Development; Adolescent Problems & their Management; 4. Team Cohesion and Sports; 5. Introduction to Psychological Attributes: Attention, Resilience, Mental Toughness	<ul style="list-style-type: none"> The students will identify the definition and importance of Psychology in Physical Education and sports. The students will be able to differentiate characteristics of growth and development at different stages Students will be able to identify the issues and management related to adolescents. The students will be able to understand the importance of team cohesion in sports. Students will distinguish different Psychological Attributes like Attention, Resilience, and Mental Toughness. 	Visualize victory through Art.
Winter Break: 30 December 2024 to 7 January 2025				
School Reopens: 8 January 2025				
8. January 2025 (Up-to 31 January 2025)	18	Unit – X Training & Doping in Sports 1. Concept and Principles of Sports Training 2. Training Load: Over Load, Adaptation, and Recovery	<ul style="list-style-type: none"> To make the students aware about of concepts and principles of sports training. To make students learn and understand the Training Load, Over Load, Adaptation, and Recovery concepts. 	Compare Warming up and cooling down for different climate. (Prepare chart)



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		<ol style="list-style-type: none">3. Warming-up & Limbering Down– Types, Method & Importance4. Concept of Skill, Technique, Tactics & Strategy5. Concept of Doping and its disadvantages.	<ul style="list-style-type: none">• To make students Understand the importance of warning up and limbering down exercises.• To introduce the terms like Skills, Techniques, Tactics, and Strategies to the students.• To make students aware of the doping substances and their disadvantages in sports.	
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Syllabus Completion: 31 January 2025

Revision- Annual Examination: 3 February 2025 to 6 February 2025

Annual Examination: 7 February 2025 to 21 February 2025



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ACADEMIC ANNUAL MODULE PLANNING(SESSION: 2024-25)

Class: XI		Subject: ARTIFICIAL INTELLIGENCE (843)		Name of the Subject Teacher: Ms. Ruchi Tyagi	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
01 APRIL	9 Days	<p>(PART B) Subject specific skills</p> <p>UNIT 1 – INTRODUCTION: ARTIFICIAL INTELLIGENCE FOR EVERYONE</p> <ul style="list-style-type: none"> •What is Artificial Intelligence? •Evolution of AI •Types of AI •Domains of AI •AI Terminologies •Benefits and limitations of AI 	<p>Students will be able to –</p> <ul style="list-style-type: none"> • Communicate effectively about AI concepts and applications in written and oral formats. • Describe the historical development of AI. • Differentiate between various types and domains of AI, including their applications. • Recognize the key terminologies and concepts related to machine learning and deep learning. • Formulate informed opinions on the potential benefits and limitations of AI in various contexts. • Define and describe machine learning • Differentiate between structured and unstructured data • Describe how machine learning structures data • Describe how machine learning structures unstructured data • Describe how machine learning uses probabilistic calculation to solve problems • Describe three methods by which machine learning analyses data • Describe an ideal relationship between humans and machine learning 	<p>Categorize the given applications into the three domains</p> <p>IBM Skills Build – Introduction to AI</p>	
02 MAY	20 Days	<p>(PART B)Subject specific skills</p> <p>UNIT 3 –PYTHON PROGRAMMING Level 1 :Basics of python programming,</p>	<p>Students will be able to –</p> <p>Explain the basics of python programming language and write programs with basic concepts of tokens.</p>	<p>Minimum five programs using operators, data types, control</p>	



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		<p>character sets, tokens, modes, operators, datatypes, Control Statements</p> <p>Level 2 :CSV Files, Libraries – Numpy, Pandas, Scikit-learn</p>	<p>Use selective and iterative statements effectively. Gains practical knowledge on how to use the libraries efficiently.</p>	<p>statements (Level 1)</p> <ul style="list-style-type: none"> • Minimum 5 programs on Numpy, Pandas, Scikit-learn (Level 2) <p>IBM SkillsBuild - Python for Data Science</p>
03 JULY	22 Days	<p>(PART B) Subject specific skills</p> <p>UNIT 2 - UNLOCKING YOUR FUTURE IN AI</p> <ul style="list-style-type: none"> • The Global Demand • Some Common Job Roles In AI • Essential Skills and Tools for Prospective AI Careers • Opportunities in AI across Various Industries <p>(PART A)</p> <p>UNIT 1: COMMUNICATION SKILLS – III</p>	<p>Students will be able to –</p> <ul style="list-style-type: none"> • Articulate the demand for AI professionals and the diverse career opportunities available in the field. • Identify the requisite skills and tools needed to pursue a career in artificial intelligence. • Understand the potential roles and responsibilities of AI professionals across different industries. • Explore resources for further learning and skill development in the field of AI. • Evaluate their own interests and skills to determine potential pathways for a career in AI. 	<ul style="list-style-type: none"> • Identify ten companies currently hiring employees for in specific AI positions. • Note down the technical skills and soft skills listed by any two companies for the specific AI position. <p>IBM Skills Build : Your Future in AI: The Job Landscape</p>



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ACADEMIC ANNUAL MODULE PLANNING(SESSION: 2024-25)

04 AUGUST	19 Days	<p>(PART B) Subject specific skills</p> <p>UNIT 4 - INTRODUCTION TO CAPSTONE PROJECT</p> <ul style="list-style-type: none"> • Design Thinking • Empathy Map • Sustainable Development Goals • Capstone Project <p>(PART A) UNIT 2: SELF-MANAGEMENT SKILLS – III</p>	<p>Students will be able to –</p> <ul style="list-style-type: none"> Decompose any problem using the 5W1H method. Apply Design thinking methodology. Create empathy maps. Align problems to SDGs. Apply all the learnings in solving real world problems. Comfortably express their solution to a problem in non-technical words. 	<p>Create an empathy map for a given scenario</p> <p>Project Abstract Creation Using Design Thinking Framework</p> <p>IBM SkillsBuild - What is Design thinking?</p>
<p>REVISION-HALF YEARLY EXAMINATION : 2 SEPTEMBER 2024 – 9 SEPTEMBER 2024 HALF YEARLY EXAM 10 SEPTEMBER- 27 SEPTEMBER 2024</p>				
05 OCTOBER	18 Days	<p>(PART B)Subject specific skills</p> <p>UNIT 5 - DATA LITERACY – DATA COLLECTION TO DATA ANALYSIS</p> <ul style="list-style-type: none"> • What is Data Literacy? • Data Collection • Exploring Data • Statistical Analysis of data • Representation of data, Python Programs for Statistical Analysis and Data Visualization • Introduction to Matrices • Data Pre-processing • Data in Modelling and Evaluation 	<p>Students will be able to –</p> <ul style="list-style-type: none"> Explain the importance of data literacy in AI. Identify different data collection methods and their applications. Comprehend mathematical concepts related to matrices, its operations, and applications. Apply basic data analysis techniques to analyse data. Visualize the data using different techniques. 	<p>Identification of the level of measurement</p> <ul style="list-style-type: none"> • Python programs to demonstrate the use of mean, median, mode, standard deviation and variance • Python programs to visualise the line graph, bar graph, histogram, scatter graph and



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		<p>(PART A) 3: ICT SKILLS – III</p>		<p>pie chart using matplotlib</p> <p>IBM SkillsBuild - Data Visualisation with Python (Modules 1,2,3)</p>
06 NOVEMBER	19 Days	<p>(PART B) Subject specific skills UNIT 6 – MACHINE LEARNING ALGORITHMS</p> <ul style="list-style-type: none"> Machine Learning in a nutshell Types of Machine Learning Supervised Learning Understanding Correlation, Regression, Finding the line, Linear Regression algorithm Classification – How it works, Types, k – Nearest Neighbour algorithm Unsupervised Learning Clustering – How it works, Types, k - means Clustering algorithm <p>(PART A) UNIT 4: ENTREPRENEURIAL SKILLS – III</p>	<p>Students will be able to –</p> <p>Differentiate the different types of machine learning methods.</p> <p>They will be able to understand the concept behind each machine learning methods.</p> <p>Apply these methods to develop simple solutions for some day-to-day situations.</p> <p>Build up this knowledge to the next level to apply during Capstone Project development.</p>	<p>Calculation of pearson correlation coefficient in MS – Excel.</p> <p>Demonstration of Linear regression in MS – Excel / using python program.</p> <p>Demonstration of k – Nearest Neighbour using python program.</p> <p>Demonstration of k – means clustering using python program.</p> <p>IBM SkillsBuild - Machine learning with Python</p>
07 DECEMBER	19 Days	<p>(PART B) Subject specific skills UNIT 7 – LEVERAGING LINGUISTICS AND COMPUTER SCIENCE</p>	<p>Students will be able to –</p> <p>Develop a better understanding of the complexities of language and the challenges involved in NLP tasks.</p>	<p>Write an article on “IBM Project Debater –</p>



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		<ul style="list-style-type: none"> • Understanding Human Language Complexity • Introduction to Natural Language Processing (NLP) - Emotion Detection and Sentiment Analysis, Classification Problems, Chatbot • Phases of NLP • Applications of NLP <p>(PART A) UNIT 5: GREEN SKILLS – III</p>	Learn new techniques and algorithms for NLP tasks.	<p>Interesting facts” Create a chatbot on ordering ice-creams using any of the following platforms: Google Dialogflow Botsify.com Botpress.com</p> <p>IBM SKillsBuild - Natural Language Processing</p>
08 JANUARY	18 Days	<p>(PART B) Subject specific skills</p> <p>UNIT 8 – AI ETHICS AND VALUES</p> <ul style="list-style-type: none"> • Ethics in Artificial Intelligence • The five pillars of AI Ethics • Bias, Bias Awareness, Sources of Bias • Mitigating Bias in AI Systems • Developing AI Policies • Moral Machine Game • Survival of the Best Fit Game 	<p>Students will be able to –</p> <ul style="list-style-type: none"> • Demonstrate an understanding of the fundamental principles of ethics and gain insight into ethical considerations related to AI technologies. • Develop an understanding of AI bias, its sources, and its real-world implications, as well as the ethical considerations. • Identify and apply strategies for mitigating bias in AI systems to promote fairness and transparency in technology. • Recognize the significance of AI policies in promoting responsible, safe, and ethical use of AI technologies. 	<p>Summarize your insights and interpretations from the video "Humans need not apply.”</p> <p>Activity: Role Play on biased AI systems</p> <p>IBM SkillsBuild - AI Ethics Comparative study of AI policies (that involve examining guidelines and</p>



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				principles) established by various organizations and regulatory bodies Understanding ethical dilemma using Moral machine Survival of the best fit
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Syllabus Completion: 31 JANUARY, 2025
REVISION ANNUAL EXAMINATION 3 FEB – 6 FEB, 2025
ANNUAL EXAMINATION: 7 FEB 2025 – 21 FEB 2025



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Class: XI		Subject: Computer Science(083)		Name of the Subject Teacher: Ms. Vidhi Arora Hasija	
Module	No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
I April 2024	9	Unit II: Computational Thinking and Programming-I <ul style="list-style-type: none"> ● Familiarization with the basics of Python programming: Introduction to Python, Features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens(keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments 	To understand the features of the programming language python and to discriminate between the different programming languages. The students will learn how to use python through Python software.	Students will do hands-on in the lab and create their first program both in Shell mode and Script mode.	
II May 2024	20	<ul style="list-style-type: none"> ● Knowledge of data types: Number (integer, floating point, complex), boolean, sequence (string, list, tuple), None, Mapping(dictionary), mutable and immutable data types. ● Operators: arithmetic operators, relational operators, logical operators, assignment operators, augmented assignment operators, identity operators (is, is not), membership operators (in not in) ● Expressions, statement, type conversion, and input/output: precedence of operators, expression, and evaluation of an expression, type-conversion (explicit and implicit conversion), accepting data as input from the console and displaying output. ● Errors-syntax errors, logical errors, and run-time errors ● Flow of Control: introduction, use of indentation, sequential flow, conditional and iterative flow ● Conditional statements: if, if-else, if-elif-else 	To understand all necessary terms of the python platform like indentation, variables, data types etc. To learn the various python operators used to create an expression and to understand the flow of programming language Students will be able to recognize and debug, the various errors generated while coding of the programs.	Activity Think-Play Share based on concept of Datatypes Practical implementation of python programming operators Practical implementation of basics of Python using conditional statements.	

Summer Vacation: 30 May 2024 to 30 June 2024



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<p>III July 2024</p>	<p>22</p>	<ul style="list-style-type: none"> • Iterative Statement: for loop, range(), while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number, etc • Pratical work of all topics covered so far 	<p>To understand the control & flow of programming through various conditional and iterative statements.</p>	<p>Creation of a small project based on basic Python programming using the concept of control statements</p>
<p>IV August 2024</p>	<p>19</p>	<ul style="list-style-type: none"> • Strings: introduction, string operations (concatenation, repetition, membership and slicing), traversing a string using loops, built-in functions/methods–len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(),lstrip(), rstrip(), strip(), replace(), join(), partition(), split() • Lists: indexing, list operations (concatenation, repetition, membership and slicing), traversing a list using loop, built-in functions/ methods–len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists, finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list. • Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership and slicing); built in functions/methods – len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple 	<p>To learn the concept of storing multiple values in a single datatype. To learn the basic operation in Strings and Lists and Tuples .</p>	<p>Google form Quiz based on Strings, Tuple and List Practical implementation of strings, tuples and lists in python programming</p>
<p>Syllabus Completion : 30 August 2024 Revision- Half Yearly Examination: 2 September 2024 to 9 September 2024 Half Yearly Examination: 10 September 2024 to 27 September 2024 Second Term Resumes: 30 September 2024</p>				
<p>V October 2024</p>	<p>18</p>	<ul style="list-style-type: none"> • Dictionary: introduction, accessing items in a dictionary using keys, mutability of a dictionary (adding a new term, modifying an existing item), traversing a dictionary, built in functions/ methods – len(), dict(), keys(), values(), items(), get(), update(), del(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), sorted() 	<p>To enhance problem solving and programming skills with extensive programming through Dictionary concept</p>	<p>Role Play Activity</p>



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<p>VI November 2024</p>	<p>19</p>	<ul style="list-style-type: none"> ● Practical work of List, Tuple and Dictionary continued. ● Introduction to Python modules: Importing module using ‘import ’ and using from statement, importing math module (pi, e, sqrt(), ceil(), floor(), pow(), fabs(), sin(), cos(), tan()); random module (random(), randint(), randrange()), statistics module (mean(), median(), mode()). Presentation making on various encoding schemes. 	<p>To understand the concept of built in modules to introduce the concept of reusability of code</p>	<p>Practical implementation of modules through programs</p>
<p>VII December 2024</p>	<p>19</p>	<ul style="list-style-type: none"> ● Unit II: Computational Thinking and Programming-I ● Introduction to Problem-solving: Steps for Problem solving (Analyzing the problem, developing an algorithm, coding, testing, and debugging), representation of algorithms using flowchart and pseudocode, decomposition ● Unit I: Computer Systems and Organisation ● Basic computer organisation: Introduction to Computer System, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (bit, byte, KB, MB, GB, TB, PB) ● Types of software: System software (Operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler, and interpreter), application software ● Operating System(OS): functions of the operating system, OS user interface ● Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan’s laws, Logic circuits 	<p>Writing of Algorithms to understand program. Making Flow charts and pseudo codes of various programs To recognize the various parts of a computer system and to understand the functionality of OS Real life case study questions based on problem solving Practical Draw and explain the IPO cycle and Memory chart in MSWord</p>	<p>Real life case study questions based on problem solving</p> <p>Draw and explain the IPO cycle and Memory chart in MSWord</p>
<p>Winter Break: 30 December 2024 to 7 January 2025</p>				
<p>VIII January 2025</p>	<p>18</p>	<ul style="list-style-type: none"> ● Number System: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems ● Encoding Schemes: ASCII, ISCII, and Unicode (UTF8, UTF32) <p>Unit III: Society, Law and Ethics</p> <ul style="list-style-type: none"> ● Digital Footprints ● Digital Society and Netizen: net etiquettes, communication etiquettes, 	<p>To understand the use of Boolean Logic and to convert one Number System to another. To understand the various encoding schemes.</p>	<p>Presentation making on various encoding schemes.</p> <p>Article Writing on Societal Impact of IT explaining Digital</p>



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	<p>social media etiquettes</p> <ul style="list-style-type: none"> ● Data Protection: Intellectual property rights (copyright, patent , trademark), violation of IPR(plagiarism, copyright infringement, trademark infringement), open source software and licensing (Creative Commons, GPL and Apache) ● Cyber Crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, cyber trolls, cyber bullying ● Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying. ● Safely accessing web sites: malware, viruses, trojans, adware ● E-waste management: proper disposal of used electronic gadgets ● Indian Information Technology Act (IT Act) ● Technology & Society 	<p>Students will learn the Importance of IT, its Impact in our daily life and various cyber crimes</p> <p>To understand the need of cyber safety and how to reduce, reuse and recycle ewaste</p>	<p>footprints, society & Netizen, Data Protection, cyber crime etc.</p> <p>Debate on Pros and Cons of E-waste management</p>
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Syllabus Completion: 31 January 2025

Revision Annual Examination :3 February 2025 to 6 February 2025

Annual Examination : 7 February 2025 to 21 February 2025