

2	JUNE	23	<p><u>VISTAS</u> 1. Third Level</p> <p><u>FLAMINGO</u> 2. Lost Spring</p> <p>2. Keeping quiet (Poem)</p>	<ul style="list-style-type: none"> • Discussion of the plot and stories based on science fantasies • Description of the third level and its importance • Characters of the story • Understand the central theme and story line. • Importance of childhood • Discussion of lives of children in slum areas. • Research on the rights and laws related to child labor and child education in India. • Author exhorting people to introspect about their lives. • Understand the critical appreciation of the poem based on rhyme, content and theme. • Understand the importance of 'Keeping Quiet'. 	<p>Find out What is Escapism? Write an article on it.</p> <p>Research on Laws related to Right to Education of children in India</p> <p>Make a list of Figures of Speech</p>
3	JULY	26	<p><u>FLAMINGO</u> 3. Deep Water</p> <p>4. The Rattrap</p> <p><u>VISTAS</u> 2. The Tiger King</p> <p>3. Journey to the Centre of Earth</p>	<ul style="list-style-type: none"> • Phobia and its types. • Incidents faced by Douglas • How he overcame his fears • His Achievements • A tramp's Philosophy of life. • How he becomes a good human when love and compassion are shown by the daughter of Iron Master. • Judgmental nature of society will be discussed. • Significance of the title • Astrological prediction • Discussion of the Characters and incidents of the story • Ironical end and justification of the title. • Expedition to Antarctica by a chosen group of students. • Description of the scenery of Antarctica witnessed by 	<p>Read more about Douglas.</p> <p>Write a different ending of the story according to your imagination and creativity.</p> <p>Develop one story based on prediction.</p> <p>Videos on the expeditions in Antarctica</p>

				the author <ul style="list-style-type: none"> Human impact on Antarctica 	UT-1 (14 th July to 18 th July)
4	AUGUST	18	<u>Writing Skills</u> Formal and Informal Invitation <u>VISTAS</u> 4. The Enemy <u>FLAMINGO</u> 5. Indigo 3. A Thing of Beauty (Poem) <u>Assessment of listening (ASL)</u>	<ul style="list-style-type: none"> Format of formal and informal invitation. How the content differs in various types. A story based on a Japanese doctor and his saving of an American soldier during second world- war. Mindsets of enemy countries, their soldiers and citizens. First civil disobedience Movement in Champaran Gandhiji's role in Satyagraha movement. Role of Indigo in the freedom struggle. Definition of beauty What is beauty? Beauty in nature and beauty in patriotism Listening task to assess the listening skill of students 	Exercise on invitations A discussion on parental dominance on children. Video on Champaran episode Write your definition of "Beauty"
5	SEPTEMBER	25	<u>FLAMINGO</u> 6. Poets and Pancakes 7. The Interview	<ul style="list-style-type: none"> Discussion of old cinema and studios Relevance of pancakes Cinema during pre-independence and post independence. Humorous and ideological depiction of Gemini Studios in Madras. What is an interview? Interview of Umberto Eco Interviews of famous personalities and their opinions 	Video of the Gemini studio and pancake as a brand will be shown Interviews of famous personalities will be shown.

			<p><u>Writing Skills</u></p> <p>Report Writing</p> <p>Article Writing</p>	<p>on 'Interviews'</p> <ul style="list-style-type: none"> • Format of Report Writing • Explanation of the content to be added • Significance of Reporting • Format of Article Writing • Explanation of the structure of article writing and main points to be included. 	<p>Topics for practice will be given.</p> <p>Topics for practice will be given.</p>
6	OCTOBER	12	<p><u>FLAMINGO</u></p> <p>8. Going Places</p> <p>4. A Roadside Stand (Poem)</p> <p>5. Aunt Jennifer's Tigers (Poem)</p> <p><u>Writing Skills</u></p> <p>Letter Writing</p>	<ul style="list-style-type: none"> • Fantasy of youth- hero worship. • Teenage fantasies will be discussed. • Description of characters of the chapter. • What is a roadside stand? • Importance of a roadside stand in the lives of villagers • Expectations of the owner • Life of Aunt Jennifer • Significance of the tigers • Marital conditions of Aunt Jennifer • Job application • Letter to the Editor 	<p>Write a paragraph on any fantasy that you have. Half-Yearly Exam (12th Sept.to 22nd Sept.)</p> <p>Write down the figures of speech used in the poems.</p> <p>Letters of all types will be given for practice.</p>
7	NOVEMBER	22	<p><u>VISTAS</u></p> <p>5. On the Face of it</p> <p>6. Childhood Memories</p>	<ul style="list-style-type: none"> • Two deformed people meet. • The elder one influences the young one to change his mentality. • Optimism and pessimism in life of both the characters and their impact on them. • Memories of childhood by two women belonging to marginalized groups. • Untouchability and its ill effects during post 	<p>Character Sketches of Derry and Mr.Lamb</p>

			Revision	independence. Revision of Article writing, Report Writing and Notice writing	Topics will be given for practice
8	DECEMBER	25	Revision:	Revision of chapters and poems from Flamingo.	Revision sheet UT-2 (1 st Dec.to 5 th Dec.) Pre-Board-1(20 th Dec. to 29 th Dec.)
9	JANUARY	17	Revision	Revision of chapter from Vistas	Revision sheet Pre-Board-2 (19 th Jan to 29 th Jan.)
10	FEBRUARY	23	PROJECT	Conduction of -VIVA	
11	MARCH	10	Board Exam		

NAME OF THE TEACHER: Ms. Kalpana Trivedi



TAPOVAN INTERNATIONAL SCHOOL
YEARLY SYLLABUS
2025-26

SUBJECT: Applied Art (052)

Class: 12 Humanities

Sr. No	Month	No. of Working Days	No. & Name of the Chapter / Lesson	Content / Sub Topics	Portfolio Assignment Topic
1	April	22	Unit-1 Six limbs of Indian Painting & Fundamentals of Visual Art (Elements & Principles) Rajasthani School of Miniature Painting	1. Learning of Origin and Development 2. Sub-Schools-Mewar, Bundi, Jodhpur, Bikaner, Kishangar, and Jaipur 3. Main Features of Rajasthani School 4. Appreciation of The Following Rajasthani Painting	1. Indian Folk Art (Mandala Art) 2. Picture Composition 3. Poster Design
2.	June	23	Unit-1 The Rajasthani And Pahari School of Miniature Painting The Mughal and Deccan school of miniature painting	Painting: 1. Chougan Player 2. Krishna on Swing 3. Radha Bani-Thani 4. Bharat meets Rama at Chitrakut	1. Indian folk art 2. Picture composition on various topics discussed in class. 3. Poster design
3.	July	26	Unit-1 The Pahari school of Miniature painting	1. Learning of Origin and Development 2. Sub-school-basohli, Guler, Kangara, Chamba and Garhwal Painting: 1. Nand Yashoda and kinsmen going to Vrindavan 2. Krishna with Gopis	1. Indian folk art 2. Picture composition 3. Poster design of relevant topic
4.	August	22	Unit-2 The Mughal and the Deccan School of Miniature painting.	(a) The Mughal School 1. Learning of Origin and Development 2. Understanding of Main Features of Mughal school Painting: 1. Krishna lifting Mount Govardhan 2. Falcon on a bird-rest	1. Picture composition of topic given in class. 2. Magazine design 3. Illustration – drawing of figures on topic given.
5.	September	23	Unit-2 The Mughal and the Deccan School of Miniature painting.	3. Kabir and Raidas 4. Marriage Procession of Dara Shikoh 5. Chand Bibi Playing Polo 6. Hazrat Nizamuddin Auliya and Amir Khusro	1. Picture composition 2. Poster design on relevant topic 3. Poster design

				(b) The Deccan School 1. Origin and Development 2. Main Features of Deccan School	
6.	October	21	Unit-3 Bengal School of Painting and Indian National Flag and the Modern Trends in Indian Art	1. National Flag of India and the symbolic significance of its famous and the colors (about the beginning to mid of the 20 th century) 2. Introduction to the Bengal school of painting 3. Learning of Origin and development of the Bengal School of Painting 4. Main features of the Bengal school of Painting Painting: - 1. Journey's End 2. Shiv and Sati 3. Radhika 4. Meghdoot	1. Poster design 2. Magazine design/ Illustration related to topic given 3. Picture composition
7.	November	17	Unit 4 About the Artists Points to Remember Paintings Graphics	Painting: 1. Rama vanquishing the pride of the ocean 2. Mother and Child 3. Mother Teresa Graphics: 1. Children 2. Devi 3. Of Wall 4. Man Woman and Tree	1. Picture composition 2. Poster design on topics related to theme.
8.	December	24	Sculptures Revision for Pre-board exams	Sculpture: - 1. Triumph of Labour 2. Santhal family 3. Cries Un-heard 4. Ganesha Revision for all topics for Pre-board exams	1. Picture Composition/Illustration 2. Illustration 3. Poster design
9	January	19	Revision for CBSE Board Exam	Revision of all topics and solving sample papers.	Practice work of paintings related to topics learnt.
10	February/ March	22 09	Revision for CBSE Board Exam	Revision of all topics and solving sample papers.	Practice work on various topics.

Name of the Teacher : Krishna Jani



TAPOVAN INTERNATIONAL SCHOOL

YEARLY SYLLABUS 2025- 26

SUBJECT: ENTREPRENEURSHIP (066)

Class: XII Com. / Hum. / Sc.

Sr.No	Month	No.of Working Days	No. & Name of the Chapter / Lesson	Content / Sub Topics	Activities
1	April	22	L -2: Entrepreneurial Planning. Project work on Business Plan	Forms of different business entities with their features.Creating of business plan with format and its importance.Organizational plan, production plan, marketing plan and operational plan, financial plan, Human resource planning with their elements. Project preparations.	Value based questions Case studies Class test will be taken on this lesson. Project based presentation of their own plan, puzzle word method. Project work on Business plan.
3	June	23	L -1: Entrepreneurial Opportunity.	Business opportunity and its elements Sensing Entrepreneurial Opportunities. Environment scanning. Problem Identification. Product identification. Sources of idea fields. Spotting trends. Creativity and Innovation process. Selecting the right opportunity.	Conduct a survey on any particular problem and find a solution to that problem. Case study and sample situation based. Value based questions Case studies Class test will be taken on this lesson.
4	July	26	L -3: Enterprise Marketing.	Marketing and sales strategy& its functions, importance, types etc.Branding & its types, features, logo, tagline, IPR Etc... Promotional strategy& its types. Physical distribution and its factors Promotional tools (Advertising, Sales promotions, Personal selling, Public relations, Publicity) Sales promotional activities.	Prepare a new product its logo, tagline and brand name. Group discussion, case studies, and project based. UT – I Exams. (14 th July to 18 th July) Value based questions Case studies Class test will be taken on this lesson.

5	August	18	L – 4 : Enterprise Growth Strategy	Define franchising. Types of Franchising and its advantages and disadvantages. Ingredients of franchisee agreements. Mergers and acquisitions & its types. Reason for M& A	Value based questions Case studies Class test will be taken on this lesson. Make a list of companies which have merged or acquisition in India and abroad.
6	September	25	L -5 : Business Arithmetic	Unit of sale, Unit cost for multiple products. Break even analysis for multiple products. Computation of working capital & operating cycle of different type of enterprises Inventory control and its factors. Calculation of EOQ. Calculation of Return on investment and Return on equity.	Half yearly Exams. (12 st Sep. to 22 th Sep.) Value based questions Case studies Class test will be taken on this lesson. Collaborative learning through solving different problems.
7	October	12	L -6 : Resource Mobilization Project Work 2	Need of finance in business. Capital Market, Ways of raising funds on primary market.	Project Work on Market Survey Value based questions Case studies Class test will be taken on this lesson.
8	November	22	L -6: Resource Mobilization	Angel investors and its features. Venture Capitalist concepts and its features When to seek venture capital in the various stages of business developments.	Find out 5 entrepreneurial ventures which have received financial assistance from Angel Investors. Class test will be taken on this lesson. List of source of funding, presentation in the classroom and lecture method.
9	December	25	Revision and class test Pre-Board - I Exams.	Revision of Lesson Resource mobilization and Business arithmetic.	Class test Chapter Wise UT – II Exam. (1 st Dec. to 5 th Dec.) Pre – Board – I Exams. (20 st Dec. to 29 th Dec.)

10	January	17	Revision, class test and Pre- Board II Exams.	Revision from lesson 1, 2, 3, 4	Class test Chapter Wise Pre – Board – II Exams. (19 th Jan to 29 th Feb.)
11	February	23	Practical Exam and Revision	Practical Exam and Revision	Practical Exam and Revision

Name of the Teacher: PRABIR DAS



Class: XII

Sr.No.	Month	No. of Working Days	No. & Name of the Chapter / Lesson	Content / Sub Topics	Activities
1	April	22	<p><u>PART A-CONTEMPORARY WORLD POLITICS</u></p> <p><u>Ch.1</u>The End of Bipolarity</p> <p><u>PART B-POLITICS IN INDIA SINCE INDEPENDENCE</u></p> <p><u>Ch.1</u>Challenges of Nation Building</p>	<p>a) The Soviet System b) Gorbachev and the disintegration c) Causes and Consequences of disintegration of Soviet Union d) Shock Therapy and its Consequences e) New entities in world politics <input type="checkbox"/> Russia <input type="checkbox"/> Balkan States <input type="checkbox"/> Central Asian States f) India's relations with Russia and other post-communist countries</p> <p>a) Challenges for the new Nation. <input type="checkbox"/> Three Challenges. b) Partition: Displacement and Rehabilitation. <input type="checkbox"/> Consequences of Partition. c) Integration of Princely States. <input type="checkbox"/> The problem <input type="checkbox"/> Government's approach <input type="checkbox"/> Hyderabad <input type="checkbox"/> Manipur d) Reorganisation of States.</p>	<p>Group Discussion: Causes and consequences of disintegration of USSR</p> <p>Documentaries to be Shown- Past & present situations in USSR/Post Soviet Republics</p> <p>Analysis of relevant newspaper articles</p> <p>Discussion: Causes and consequences of Partition</p> <p>Cartoon Interpretation</p> <p>Map Activity</p>

2	June	23	<p>PART A-CONTEMPORARY WORLD POLITICS Ch.2: Contemporary Centres of Power</p> <p>PART B-POLITICS IN INDIA SINCE INDEPENDENCE Ch.2. Era of One-Party Dominance</p>	<p>a) European Union b) Association of Southeast Asian Nations c) Rise of China as an economic power d) Japan and South Korea as emerging powers</p> <p>a) Challenge of building democracy. b) Congress dominance in the first three general elections. • Nature of Congress dominance • Congress as social and ideological coalition. • Tolerance and management of Factions c) Emergence of opposition parties.</p>	<p>Discussion: Importance on regional organisations Comparative study: Economic growth of China, Japan and South Korea. Use of timeline Inquiry based learning Map activity Interpretation of cartoons/ Pictures/ Newspaper Clippings</p> <p>Group Discussion: Recent changes in the electoral process</p> <p>Comparative analysis: Ideology of different political parties</p> <p>Maps/Cartoons</p> <p>Question strategy</p> <p>Quiz</p>
3	July	26	<p><u>PART A-CONTEMPORARY WORLD POLITICS</u> Ch.3: Contemporary South Asia</p>	<p>a) Military and Democracy in Pakistan and Bangladesh b) Monarchy and Democracy in Nepal c) Ethnic Conflict and Democracy in Sri Lanka d) India-Pakistan Conflicts e) India and its Neighbours f) Peace and Cooperation</p>	<p>Map activity</p> <p>Comparative Analysis: Political systems of South Asian countries</p> <p>Use of Historical data</p> <p>Interpretation of cartoons/Pictures /Newspaper clippings</p>

			<p>PART B-POLITICS IN INDIA SINCE INDEPENDENCE</p> <p>Ch.3: Politics of Planned Development</p> <p>PART A-CONTEMPORARY WORLD POLITICS</p> <p>Ch.4; International Organizations</p>	<p>a) Political contestation.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Ideas of Development. <input type="checkbox"/> Planning <input type="checkbox"/> Planning Commission <p>b) The Early Initiatives</p> <ul style="list-style-type: none"> <input type="checkbox"/> The First Five Year Plan. <input type="checkbox"/> Rapid Industrialisation. <p>a) Meaning and importance of International Organisations</p> <p>b) Evolution of the UN</p> <p>c) Structure and function of International Organisations</p> <p>d) Principal Organs of UN</p> <p>e) Reform of the UN after Cold War</p> <p>f) Reform of Structures, Processes and Jurisdiction of the UN</p> <p>g) India and the UN Reforms</p> <p>h) Key Agencies: IMF, World Bank, WTO, ILO, IAEA.</p> <p>i) NGO: Amnesty International, Human Rights Watch.</p> <p>j) Implications and Future of International Organizations</p>	<p>Discussion: Current economic crisis in Sri Lanka and Pakistan</p> <p>Debate and Discussion: First three 5-year plans.</p> <p>Comparative analysis: The Left and Right ideology</p> <p>Discussion and debate: Necessary reforms of the UN</p> <p>Interpretation of cartoons /Newspaper clippings</p> <p>Quiz</p> <p>Model United Nations</p>
4	August	18	<p><u>PART B-POLITICS IN INDIA SINCE INDEPENDENCE</u></p> <p>Ch.4: India's External Relations</p>	<p>a) International Context</p> <p>b) The Policy of NonAlignment.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Nehru's role <input type="checkbox"/> Distance from two camps. <input type="checkbox"/> Afro Asian Unity <p>c) Peace and conflict with China</p> <ul style="list-style-type: none"> <input type="checkbox"/> The Chinese Invasion 1962 <input type="checkbox"/> War and Peace with Pakistan <input type="checkbox"/> Bangladesh War 1971 <p>d) India's Nuclear Policy.</p>	<p>Presentation: NAM founders, objectives, principles and its relevance in contemporary world politics</p> <p>Group discussion: India's relations with China and Pakistan (past, present and future)</p> <p>Debate: India's stand on shifting alliances</p> <p>Research and Report Writing</p>

			PART A-CONTEMPORARY WORLD POLITICS Ch.5: Security in the Contemporary World	a) Meaning and Type of Security. b) Traditional concept of security c) Non-tradition notions of Security. d) New Sources of Threats e) Cooperative Security f) India's Security strategy	Discussions and debates: New sources of threat Comparative analysis: Security concerns of different countries Interpretation of cartoons/Pictures Collaborative concept mapping: India's initiatives and policies towards security.
5	September	25	REVISION FOR MID TERM PART B-POLITICS IN INDIA SINCE INDEPENDENCE Ch.5: Challenges to and Restoration of the Congress System PART A-CONTEMPORARY WORLD POLITICS Ch.6: Environment and Natural Resources	a) Challenge of Political Succession <input type="checkbox"/> From Nehru to Shastri From Shastri to Indira Gandhi b) Fourth General Election 1967 <input type="checkbox"/> Context of the Election. <input type="checkbox"/> Non Congressism <input type="checkbox"/> Electoral Verdict <input type="checkbox"/> Coalitions <input type="checkbox"/> Defections c) Split in the Congress <input type="checkbox"/> Indira vs the Syndicate <input type="checkbox"/> Presidential Election 1969 d) The 1971 Election and Restoration of Congress The outcome and after Restoration? a) Environmental Concerns b) Global Commons c) Common but differentiated Responsibilities d) India's Stand on Environment Issues e) Environmental Movements f) Resource Geopolitics g) Rights of Indigenous peoples	Comparative analysis: Political Succession Group discussion: Changing electoral performance of the congress Interpretation of cartoons Map Activity Presentation: Environmental issues Recapitulation Debate and discussion: Indigenous communities of the world and their concerns Newspaper activity to inculcate concern, awareness and environmental morality.

6	October	12	PART B-POLITICS IN INDIA SINCE INDEPENDENCE Ch.6: The Crisis of Democratic Order	<ul style="list-style-type: none"> • Background to Emergency. • Economic Context • Gujarat and Bihar• Movements • Conflict with Judiciary b) Declaration of Emergency	Group discussion: Based on Newspaper articles and other media information with respect to emergency Quiz, Cartoon Interpretation Map Activity
7	November	22	PART B-POLITICS IN INDIA SINCE INDEPENDENCE Ch7. Regional Aspirations	a) Region and the Nation Indian approach b) <ul style="list-style-type: none"> • Areas of Tension • Jammu and Kashmir • Roots of the Problem • External and Internal • disputes Politics since 1948 • Insurgency and After • 2022 and Beyond b) Punjab Political Context <ul style="list-style-type: none"> • Cycle of Violence • Road to Peace c) The Northeast Demand for autonomy <ul style="list-style-type: none"> • Secessionist Movements • Movements against outsiders • Assam and National Integration. 	Group discussion: Demands of Autonomy in different parts of the country. Comparative analysis: Government's response to regional aspirations Quiz.
8	December	25	Revision	All the chapters will be revised to understand the topics, Clearing the doubts related to Topics. Class test, Solving sample and previous Q. Papers	Real Time Reaction, Brainstorming, Empathy mapping, Mystery Quotation.
9	January	17	Revision	All the chapters will be revised to understand the topics, Clearing the doubts related to Topics. Class test and Quiz will be taken. Solving sample and previous Q. Papers	
10	February	23	Revision	All the chapters will be revised to understand the topics, Clearing the doubts related to Topics. Class test , Solving sample and previous Q. Papers	



TAPOVAN INTERNATIONAL SCHOOL

YEARLY SYLLABUS 2025-26

SUBJECT: **Mathematics (041)**

Class: XII

Sr.No	Month	No.of Working Days	No. & Name of the Chapter / Lesson	Content / Sub Topics	Activities
1.	April	22	Chapter : 1 Relation and Function Chapter : 2 Inverse Trigonometric Function Chapter : 5 Continuity and Defferentiability	Introduction Types of Relations (Reflexive, Symmetric, Transitive, Equivalent Relation) Types of Function (One- One, On- to, In- to) Domain , Co domain , Range of diff. Functions Introduction (Re - call the T- Functions) Graph of TF and ITF Domain, Co Domain, Range and Principal Branch of ITF Introduction (Limits and its concept) Continuity of Function in Interval, a point of interval. Algebra of continuous Functions. Defferntiability Derivative of composite function, Chain rule Derivative of implicit Functions, ITF, Exponential and Logarithmic Function, Perametric form, Second Order Derivative.	CBQ and MCQ To sketch the graphs of ax and $\log ax$, $a > 0$, $a \neq 1$ and to examine that they are mirror images of each other. To find analytically the limit of a function $f(x)$ at $x = c$ and also to check the continuity of the function at that point. CBQ and MCQ
2.	June	23	Chapter : 6 Application of Derivative Chapter : 7 Integrals	Rate Change of Quantity Increasing and decreasing Function Maxima and Minima of Function. Introduction Some properties of indefinite integral Integral by Substitution and Trigonometric Identities Integral of some particular functions Integral by partial Fractions Integration By Part (ILATE) Definite Integral Definite integral by Substitution Properties if definite Integral	Mind-Map To understand the concepts of local maxima, local minima and point of inflection. CBQ and MCQ

3.	July	26	Chapter : 8 Application of integral Chapter : 9 Differential Equations	Introduction Area Under Simple Curve by definite integral Basic Concept Order and Degree of DE General solution of DE Particular Solution Of DE Solution By Variables separation Homogeneous DE Linear DE	CBQ and MCQ To evaluate the definite integral $\int_a^b \sqrt{1-x^2} dx$ as the limit of a sum and verify it by actual integration.
4.	August	18	Chapter : 3 Matrices Chapter : 4 Determinants	Introduction Order of Metrix Types of Matrices Operation on Matrices (Addition, Subtraction, Product) Transpose of matrix and properties. Skew symmetric and symmetric matrix Introduction Expansion of Determinants Area of triangle by Determinant Minors and Co factors Adjoint and Inverse of a Matrix Application of Determinants and Matrix Solution of linear equations by Inverse of matrix.	CBQ and MCQ
5.	September	25	Chapter : 12 Linear programming Problems REVISION FOR MID TERM	Introduction Understanding of problems Mathematical formulation and Graphical Solution. Revise all Related topics and practice Questions of Mid term Examination.	CBQ and MCQ
6.	October	12	Chapter : 13 Probability	Introduction (Revision of class 11 Probability) Conditional Probability Multiplication Theorem on Probability Independent Events Bayes' Theorem Probability Distribution and Random variable Mean and Variance.	CBQ and MCQ To explain the computation of conditional probability of a given event A, when event B has already occurred, through an example of throwing a pair of dice.

7.	November	22	Chapter :10 Vector Algebra Chapter : 11 Three dimensional Geometry	Introduction Some Basic concepts of Vector Types of vectors Addition of vectors Dot product of Vectors Cross Product of Vectors Projection of vector on lines Introduction Direction Cosines and Direction ratios Equation of line in Space Angle between two Lines Shortest distance between Two Lines	CBQ and MCQ . To verify geometrically that $\vec{c} \times (\vec{a} + \vec{b}) = \vec{c} \times \vec{a} + \vec{c} \times \vec{b}$
8.	December	25	REVISION FOR PRE BOARD EXAM	Sample Paper Solving PYQ	
9.	January	17	REVISION FOR PRE BOARD EXAM	Sample Paper Solving PYQ	
10.	February	23	REVISION FOR BOARD EXAM	.	

Name of the Teacher : Mr. Satish Sharma



TAPOVAN INTERNATIONAL SCHOOL
YEARLY SYLLABUS 2025-26

SUBJECT: MATHEMATICS (041)

Class: XII OM

Sr. No.	Month	No. of Working Days	No. & Name of the Chapter / Lesson	Content / Sub Topics	Activities
1	April	22	Ch-1 Relation and Function Ch-2 Inverse Trigonometric Functions	Introduction Types of Relations Types of Functions Composition of Functions and Invertible Function Introduction Basic Concepts- Domain, Range, Graph Properties of Inverse Trigonometric Functions	MCQ, CBQ
2.	June	23	ch-5 Continuity and Differentiability Ch-3 Matrices Ch-4 Determinants	Introduction of limits, Definition of continuity, Algebra of continuous function. Differentiability, derivation of implicit function, Exponential and Logarithmic Functions, Logarithmic Differentiation Derivatives of Functions in Parametric Forms Second Order Derivative Introduction of Matrix Types of Matrices Operations on Matrices Transpose of a Matrix Symmetric and Skew Symmetric Matrices Invertible Matrices Introduction Method to find Determinant Area of a Triangle Minors and Cofactors Adjoint and Inverse of a Matrix Applications of Determinants and Matrices	Through explanation of graph creative thinking will be imbibed. Students will be asked about how to arrange numbers in square brackets without repetition MCQ, CBQ

3.	July	26	Ch-6 Application of Derivatives Ch-7 Integrals	Introduction Rate of Change of Quantities Increasing and Decreasing Functions Maxima and Minima Introduction Integration as an Inverse Process of Differentiation Methods of Integration Integrals of Some Particular Functions Integration by Partial Fractions Integration by Parts	To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner. Introduce the concept of integration visually through graphs and geometric shapes. Encourage students to create their own artwork representing different functions and their integrals.
4.	August	18	Ch-7 Integrals Ch-8 Application of Integrals	Definite Integral Fundamental Theorem of Calculus Evaluation of Definite Integrals by Substitution Some Properties of Definite Integrals Introduction Area under Simple Curves	Demonstrate how to set up the integral to calculate the area under a curve, emphasizing the use of appropriate limits of integration.
5.	September	25	Ch-12 Linear Programming	Introduction Formation of Linear Programming Problem and its Graphical Solution Revision for Mid Term Examination	MCQ,CBQ



TAPOVAN INTERNATIONAL SCHOOL
YEARLY SYLLABUS 2025-26

SUBJECT: PHYSICAL EDUCATION (048)

Class: 12

Sr.No	Month	No.of Working Days	No. & Name of the Chapter / Lesson	Content / Sub Topics	Activities
1	April	24	I : Management of Sporting Events	<ul style="list-style-type: none"> Functions of Sports Events Management (Planning, Staffing, Directing &Controlling) Various Committees & Its Responsibilities(pre; during& post) Procedure to Draw Fixtures – Knock-Out (Bye & Seeding) & League (Staircase & Cyclic, Tabular Method and Combination tournament) Intramural & Extramural tournaments – Meaning, Objective & its Significance Community Sports program (sports day, Health run, Run for Fun, Run for Specific Cause & Run for Uniti) Revision of chapter with Question and Answer session	Practical planning of league system on Board and on ground practical of different tournament pattern
			III: Yoga as Preventive measure for Lifestyle Disease	<ul style="list-style-type: none"> Asana as preventive measures Obesity: procedure, benefits & contraindications for Dhanurasana, Trikosana.... Diabetes: procedure, benefits & contraindications for bhujangasana, paschimottasana, pavanmuktasana... Asthma: procedure, benefits & contraindications for Tadasana, anuloma-Viloma..... Hypertension: Tadasana, Makarasana... Back Pain and Arthritis : procedure, benefits & contraindications for tadasana..... Revision of chapter with Question and Answer session	Different asana practices

2	May	4	V : Sports and Nutrition	<ul style="list-style-type: none"> • Concept of balance diet and nutrition • Macro and Micro Nutrients: Food sources & functions • Nutritive & Non-Nutritive Components of Diet • Eating for Weight control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance, and Food Myths • Importance of Diet in Sports-Pre, During and Post competition Requirements 	Sports Nutrition Quiz n showing video.
3	June	23	<p>VII: Physiology & injuries in Sports</p> <p>II: Children & Women in Sports</p>	<ul style="list-style-type: none"> • 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 & Strain; Bone & Joint Injuries - Dislocation, Fractures - Green Stick, Comminuted, Transverse Oblique & Impacted) • Exercise guidelines of WHO for different age groups. • Common postural deformities-knock knees, flat foot, round shoulders, Lordosis, Kyphosis, Scoliosis, and bow legs and their respective corrective measures. • Women's participation in Sports – Physical, Psychological, and social benefits. • Special consideration (menarche and menstrual dysfunction) • Female athlete triad (osteoporosis, amenorrhea, eating disorders) 	<p>Charts on different system of body and use of Bio lab for better understanding of body system and showing different system video.</p> <p>Making Charts on different postures. Showing Common Postural Deformities video</p>

4	July	26	VI: Test and Measurement in Sports	<ul style="list-style-type: none"> • Fitness test SAI Khelo India Test • BMR Test • Measurement of Cardio-Vascular Fitness – Harvard Step Test – Duration of the Exercise in Seconds x100/5.5 X Pulse count of 1-1.5 Min after Exercise • Rikli and Jones - Senior Citizen Fitness Test <ul style="list-style-type: none"> ○ Chair Stand test for lower body strength ○ Arm Curl test for upper body strength ○ Chair Sit and Reach test for lower body flexibility ○ Back Scratch test for upper body flexibility ○ Eight Foot Up and Go test for agility ○ Six minute walk test for Aerobic Endurance ○ Johnsen – Methney Test of Motor Educability (Front Roll, Roll, Jumping Half-Turn, Jumping full-turn) 	Practical of SAI Fitness Test
5	August	22	IV : Physical education & Sports for CWSN(Children with special need)	<ul style="list-style-type: none"> • Organizations promoting Disability Sports (special Olympics; Paralympics; Deaflympics) • Concept of Classification and Divisioning in Sports. • Concept of Inclusion in sports, its need, and Implementation; • Advantage of physical activity for children with special needs • Strategies to make physical Activity assessable for children with special need. 	
6	September	23	VIII. Biomechanics and Sports	<ul style="list-style-type: none"> • Newton law of motion & its application in sports • Types of Levers and their application in Sports • Equilibrium – Dynamic & Static and Center of Gravity and its application in sports • Friction & Sports • Projectile in Sports 	Practical on different games And video
7	October	21	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. 	Practical on different games and exercise

				<ul style="list-style-type: none"> • Types & Method to Develop – Strength, Endurance, Speed, Flexibility and Coordinative Ability • Circuit Training - Introduction & its importance 	
8	November	17	IX. Psychology & Sports	<ul style="list-style-type: none"> • Personality; its definition & types (Jung Classification & big five theory • Motivation, its type & techniques. • Exercise Adherence: Reasons, Benefits & Strategies for Enhancing it • Meaning, Concept & Types of Aggressions in Sports • Psychological Attributes in Sports – Self-Esteem, Mental Imagery, Self-Talk, Goal Setting 	Practical on different Psychological Attributes in Sports.
9	December	24	Revision	Revision	Revision Test
10	January	19	Revision	Revision	Revision Test
10	February	22	Board practical exam	Board practical exam	
11	March		Board Exam	Board exam	

Name of the Teacher: Ronak Rathore



TAPOVAN INTERNATIONAL SCHOOL
YEARLY SYLLABUS 2025-26

SUBJECT: Computer Science (083)

Class- XII

Sr. No	Month	Days	No. & Name of the Chapter / Lesson	Content / Sub Topics	Experiments / Activities
1	April	22	Python Revision Tour I & II	<ul style="list-style-type: none">• Python Fundamentals• Data Handling Concepts• Strings• Functions and text file	Programs based on looping statements, lists, text file and functions.
2	June	23	Introduction to Functions Using Python Libraries File handling	<ul style="list-style-type: none">• Introduction to Functions• Defining Functions• Types of Functions• Function Call• Arguments and Passing parameters• Returning values, Scope of Variables• Mutable /Immutable properties of data objects• Passing strings• Introduction to Library• Importing modules• Library functions• Text file and binary file	Programs based on Functions.
3	July	26	File Handling	<ul style="list-style-type: none">• Introduction to File Handling• Data Files (Text, Binary, CSV)• Opening and closing files• Reading & writing files• Project developments	Programs based on Text File
4	August	18	File Handling	<ul style="list-style-type: none">• Basic operations• Pickle Module –methods load and dump• Import csv module• Open, Close a csv file• Read from a csv file• Write into a csv file using csv.reader () and csv. writerow ()	Programs based on Binary File, CSV File

5	September	25	Revision for Term Exam I		
6	October	12	Stacks	<ul style="list-style-type: none"> • Introduction to Stacks • Operations (POP, PUSH) using list 	Programs based on implementation of Stack using list.
7	November	22	Structured Query Language Interface of Python with an SQL database	<ul style="list-style-type: none"> • Relational models & its Terms • Introduction to SQL • Using DDL & DML commands • Simple queries SQL Functions Connecting SQL with Python Creating Database connectivity Applications Performing Insert, Update, Delete queries Display data by using fetchone(), fetchall() • fetchmany(), row count 	Problems based on SQL Tables
8	December	25	Communication and network concepts	<ul style="list-style-type: none"> • Introduction to Networking • Switching Techniques • Transmission media • Network Devices • Network Topologies, Types of Networks • Network Protocols • Mobile Technology, Email Protocols • Wireless Technology • Network Security • Web services 	Problems based on Python interface with SQL.
9	January	17	Revision using Sample paper + Practical's		
10	February + March	23 + 10	Practical's and Final examination		

Name of the Teacher: Mr. SHEEMON S



TAPOVAN INTERNATIONAL SCHOOL
YEARLY SYLLABUS 2025-26

SUBJECT: PSYCHOLOGY (037)

CLASS: XII

Sr. No.	Month	No. of Working Days	No. & Name of the Chapter / Lesson	Content / Sub Topics	Experiments / Activities
1.	April	22	1. Variations in Psychological Attributes	1. Introduction 2. Individual Differences in Human Functioning 3. Assessment of Psychological Attributes 4. Intelligence 5. Psychometric Theories of Intelligence, Information Processing Theory: Planning, Attention-Arousal and Simultaneous Successive Model of Intelligence, <ul style="list-style-type: none"> • Triarchic Theory of Intelligence • Theory of Multiple Intelligences. 6. Individual Differences in Intelligence 7. Culture and Intelligence 8. Emotional Intelligence 9. Special Abilities: Aptitude: Nature and Measurement 10. Creativity	Conduct Intelligence Test Organize debates on controversial psychological topics such as nature vs. nurture, Intelligent Quotient vs. Emotional Quotient. Introduction to Psychological Testing

2.	June	23	2. Self and Personality	<ol style="list-style-type: none"> 1. Introduction 2. Self and Personality 3. Concept of Self 4. Cognitive and Behavioral aspects of Self 5. Culture and Self 6. Concept of Personality 7. Major Approaches to the Study of Personality <ul style="list-style-type: none"> • Type Approaches • Trait Approaches • Psychodynamic Approach and Post Freudian Approaches • Behavioural Approach • Cultural Approach • Humanistic Approach 8. Assessment of Personality <ul style="list-style-type: none"> • Self – report Measures • Projective Techniques • Behavioural Analysis 	<p>Practical 1 Self - Concept Questionnaire (SCQ)</p> <p>To create project on structure of personality and stages of personality given by Sigmund Freud</p>
3.	July	26	3. Meeting Life Challenges	<ol style="list-style-type: none"> 1. Introduction 2. Nature, Types and Sources of Stress 3. Effects of Stress on Psychological Functioning and Health <ul style="list-style-type: none"> • Stress and Health • General Adaptation Syndrome • Stress and Immune System • Lifestyle 4. Coping with Stress <ul style="list-style-type: none"> • Stress Management Techniques 5. Promoting Positive Health and Well-being <ul style="list-style-type: none"> • Life Skills • Positive Health 	<p>Practical 2</p> <p>Introversion Extroversion Inventory (IEI)</p> <p>Poster Making and displaying activity in order to spread mental health awareness.</p>

			4. Psychological Disorders	1. Introduction 2. Concepts of Abnormality and Psychological Disorders <ul style="list-style-type: none"> • Historical Background 3. Classification of Psychological Disorders 4. Factors Underlying Abnormal Behavior	
4.	August	18	4. Psychological Disorders (Continue)	5. Major Psychological Disorders <ul style="list-style-type: none"> • Anxiety Disorders • Obsessive-Compulsive and Related Disorders • Trauma-and Stressor-Related Disorders • Somatic Symptom and Related Disorders • Dissociative Disorders • Depressive Disorder • Bipolar and Related Disorders • Schizophrenia Spectrum and Other Psychotic Disorders • Neurodevelopmental Disorders • Disruptive, Impulse-Control and Conduct Disorders • Feeding and Eating Disorders • Substance Related and Addictive Disorders 	Practical 3 Adjustment Inventory for School Students The students prepare presentation on various Psychological disorders. To show clippings of movies basis on psychological disorders and therapeutic approaches.
5.	September	25	5. Therapeutic Approaches	1.Introduction 2. Nature and Process of psychotherapy <ul style="list-style-type: none"> • Therapeutic relationship 3. Types of Therapies <ul style="list-style-type: none"> • Behaviour Therapy • Cognitive Therapy • Humanistic-Existential Therapy • Alternative Therapies • Factors contributing to healing in Psychotherapy • Ethics in Psychotherapy 4. Rehabilitation of the Mentally ill	Role-play therapeutic sessions using techniques associated with each other.

6.	October	12	6. Attitude and Social Cognition	1. Introduction 2. Explaining Social Behaviour 3. Nature and Components of Attitudes 4. Attitude Formation and Change <ul style="list-style-type: none"> • Attitude Formation • Attitude Change • Attitude-Behaviour Relationship 	Attitude analysis Practical 4 Sodhi's Attitude Scale
7.	November	22	6. Attitude and Social Cognition (Continue) 7. Social influence and Group Processes	5. Prejudice and Discrimination 6. Strategies for Handling Prejudice 1. Introduction 2. Nature and Formation of Groups 3. Type of Groups 4. Influence of Group on Individual Behaviour <ul style="list-style-type: none"> • Social Loafing • Group Polarisation 	Practical 5 Academic Anxiety scale for Children (AASC) Career Exploration Group discussion
8.	December	25	Revision	Revision of the complete course	To conduct Case study / Profile on the chosen subjects. To revise all the practical
9.	January	17	Revision	➤ Mock Practical ➤ Class tests ➤ Doubt solving	To solve sample papers
10.	February & March	23 & 10	➤ Preparation for Final Exam and solving sample papers.		

Name of the Teacher: Ms. Avani Makani