SOBTIS PUBLIC SCHOOL (SR. SEC) ANNUAL CURRICULUM AND PEDAGOGICAL PLAN SESSION- 2024-25

Vision: "Our vision is to make the youth aspire, discover, redefine, innovate and become successful in life."

Mission: To develop future-geniuses with active and creative minds, a sense of understanding and compassion for humanity, and the courage to act upon their values and beliefs. We strongly believe in holistic development of each and every child spiritually, morally, intellectually, socially, emotionally and physically.

CLASS-XII SUBJECT- MATHEMATICS

	CLASS-2	IATICS		
MONTH	NO. OF WORKING DAYS	ТОРІС	AIL	DESCRIPTION
APRIL	23	Matrices Determinants Continuity and Differentiability Inverse Trigonometric Functions		
MAY	15	Applications of Derivatives		
JULY	26	Integrals Applications of the Integrals	1. Teacher will explain the Application Of Integral in the field of economics.	1. Consumer Surplus Model: The demand curve is a graphical representation of the relationship between the price of a good or service and the quantity demanded for a given period of time. In a typical representation, the price will appear on the left vertical axis, the quantity demanded on the horizontal axis.
AUGUST	24	Differential Equations Vectors Linear programming	2. Teacher will explain the applications of Differential Equations in Growth and Decay Model; Compound interest.	2. Growth and Decay Model: Exponential growth is a mathematical change that increases without limit based on an exponential function. Exponential decay is found in mathematical functions where the rate of change is decreasing. The mathematical model for exponential growth or decay is given by f(t) = A ekt or y = Aekt
SEPTEMBER	6	Revision		
OCTOBER	22	Three-dimensional Geometry Probability Relations and Functions	3. Teacher will explain the Applications Of Geometry in every- day life.	3(i). Geometry in Architecture: The construction of various buildings or monuments has a close relationship with geometry.

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4. Teacher will	(ii). Geometry in Art: Art
explain the	encompasses the formation
applications of	of figures & shapes, a basic
Probability in	understanding of 2-D & 3-
everyday life.	D, knowledge about spatial
	concepts, and contribution
	of estimation, patterns &
	measurement.
	(iii). Geometry in Sports:
	Sports often do not fail a
	sole chance to make use of
	geometrical concepts.
	The buildings of the sports
	stadiums and athletic fields
	take into consideration
	geometric shapes.
	The athletic fields also
	employ geometry; hockey,
	soccer, basketball, and
	football fields are
	rectangular in shape. The
	corner kick spots, goal
	posts, arcs, D-section, and
	centre circle are marked on
	the field.
	(iv). Geometry in
	Astronomy: In astronomy,
	geometric shapes help to
	understand the location of
	different planets, solar
	system, and different stars.
	Our planets are spherical in
	shape. The orbits are oval in
	shape.
	Many geometrical
	principles and equipments
	are used in astronomy.
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	4(i). Weather Forecasting:
	Before planning for an
	outing or a picnic, we
	always check the weather
	forecast. Suppose it says
	that there is a 70% chance
	that rain may occur. Do you
	ever wonder from where
	this 70% come from?
	A probability forecast is an
	assessment of how likely an
	event can occur in terms of
	percentage and record the
	risks associated with
	weather.
	(ii). Sports Strategies: In
	sports, analyses are
	conducted with the help of
	probability to understand
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			the strengths and weaknesses of a particular team or player. Analysts use probability and odds to foretell outcomes regarding the team's performance and members in the sport. (iii). Politics: Many politics analysts use the tactics of probability to predict the outcome of the election's results. (iv). Insurance: Insurance companies use the theory of probability or theoretical probability for framing a policy or completing at a premium rate.
NOVEMBER	9 (PB-1)	Revision	
DECEMBER	(PB-2)	Revision	
JANUARY		Revision	