## SOBTIS PUBLIC SCHOOL (SR. SEC) ANNUAL CURRICULUM AND PEDAGOGICAL PLAN SESSION- 2023-24

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		BJECT- MATHEM	
MONTH	NO. OF WORKING DAYS	ТОРІС	AIL	DESCRIPTION
APRIL	18	Matrices Determinants Continuity and Differentiability Inverse Trigonometric Functions		
MAY	17 (UT-1 exams)	Applications of Derivatives		
JULY	24	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	25	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	5 (Term- 1 exams)	Revision		
OCTOBER	22	Three-dimensional Geometry Probability Relations and Functions	3. Teacher will explain the Applications Of Geometry in everyday life.	3(i). Geometry in Architecture: The construction of various buildings or monuments has a close relationship with geometry.

	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.
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		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.
		are used in astronomy.
		4(i) Weather Foresesting:
		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
1	i	Johnson with the help of
		probability to understand

			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	