

ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA - 700019 Session Plan / Syllabus Coverage for the Academic Year 2025-2026



Subject: MATHEMATICS

Term: FIRST

Name of the Subject Co-ordinator: INDRANIL GHOSH

Name of the Textbook: Understanding ISC Mathematics (XI) by M.L.Aggarwal

No. of Working Days: 100

No. of Periods Available: 63

Class: XI

Section: A,B

монтн	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
APRIL	16	1)Sets(Pg 1-43) 3)Trigonometry(Pg 93-194) 10)Straight lines(Pg 519-605)	Set Theory.Relation between radian and degrees.Allied Angles.Locus,shifting of origin.Slope, two-point form, intercept form of straight line,etc.	Solutions of problems from the exercises of Set Theory(Ex.1.1 - 1.3), Trigonometry(Ex.3.1-3.3), Straight lines(Ex.10.1 – 10.3).	Using Venn diagram, verify the distributive law for three given non-empty sets A, B and C. Establish the relationship between the measure of an angle in degrees and in radians.
MAY	10	1)Sets(continued)(Pg 1-43) 2) Relations and Functions(Pg.45-92) 3)Trigonometry(continued)(Pg 93-194) 10)Straight lines(continued)(Pg 519-605) 9)Sequences & Series(Pg 431-511)	Products. Angle between two straight	Solutions of problems from the exercises of Sets(Ex 1.4 - 1.5) Compound Angles,Sums and Products(Ex 3.4 - 3.6),Relations(Ex.2.1 - 2.3).Straight lines(Ex.10.4 - 10.11).A.P(Ex.9.1 - 9.3).	Obtain the equation of the straight line in the normal form, for each of the following, on the same graph: (i) α < 90°(ii) 90° < α < 180°. Distinguish between a relation and a function graphically. Drawing the graph of cos x, sinx.
JUNE	12	2)Relations & Functions(Pg.45-92) 3)Trigonometry(Pg.93-194). 5)Quadratic Equations(Pg253-298) 9)Sequences & Series(Pg 431-511) Unit Test 1 on 16 th June.Syllabus-Ch-1(Ex-1.1-1.3),Ch-3(Ex-3.1-3.3)		Quadratic equations(Ex.5.15.5) Functions(Ex.2.4 – 2.6), Multiple Angles(Ex 3.7). G.P(Ex.9.4-9.7).	From the graph of quadratic equation f(x)=ax²+bx+c, find maximum/minimum value of the function, sign of the expression. Obtain a formula for the sum of the squares,cubes of 'n' natural no.s.
JULY		4)Complex Numbers(Pg.195-252)	Inequalities-Method of Intervals.Solution of linear		Using Argand plane, interpret geometrically, the meaning of i and its integral powers.

Teachers are requested to prepare a LESSON PLAN for each Topic monthwise.

Kindly mention the chapters included for Terminal Examinations

Signature of the Co Teachers: 1 Chailali Res

Submitted on: 21-4-25

Academic Co-ordinator: Soumak chatter ju

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ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA - 700019 Session Plan / Syllabus Coverage for the Academic Year 2025-2026

Subject: MATHEMATICS

Term: FIRST & SECOND

Name of the Subject Co-ordinator: INDRANIL GHOSH

Name of the Textbook: Understanding ISC Mathematics (XI) by M.L.Aggarwal

No. of Working Days: 100, 42

No. of Periods Available: 69

Class: XI

Section: A,B

монтн	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
AUGUST	23	Numbers.(continued)(Pg.195-252).	Square root of a complex numbe. Cube roots of unity. Arrangements and selections and their applications, etc. Mixed problems on permutation and combinations.	Solution of problems from the exercises of Complex Numbers(Ex.4.4-4.5), Combinations(Ex.7.6-7.8).	Application of Pigeon Hole Principle using deck of cards.
SEPTEMBER	10		Centre and radius of circle. Various standard equations of circle, diameter form, parametric form, etc.	Circles(Ex.11.1-11.5).	Let S and S' be two(non-concentric) circles with centres A, B and radii r, r' and d be the distance between their centres. Finding relation between r, r' and d with respect to relative position of two circle.
OCTOBER	15		General term & middle term of a binomial expansion. Some standard limits,etc.	Theorem (Ex.8.1-8.2),Limits(Ex 14.1 -14.3).	Construct a Pascal's triangle to write a binomial expansion for a given positive integral exponent.
NOVEMBER	21	14)Limits & Derivatives.(continued)(Pg.703-773).	Differentiation using first Principles.Fundamental theorems on differentiation. Derivatives of polynomial and trigonometric functions.Rectangular Cartesian Co-ordinate system in 3D, Distance between two points, Section Formula.	Derivatives(Ex.14.4-14.5), 3D Geometry(Ex.13.1-13.3).	Geometrical significance of X coordinate, Y coordinate, and Z coordinate in space. Finding the distance of the point in space from x-axis/y-axis/z-axis. Explain the above using a threedimensional model/power point presentation.

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Signature of the Co Teachers: 1 Chailalikey 2. Andranilyheth

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Academic Co-ordinator: Soumak Chatterjer



ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA - 700019

Session Plan / Syllabus Coverage for the Academic Year 2025-2026

Subject: MATHEMATICS

Term: SECOND

Name of the Subject Co-ordinator: INDRANIL GHOSH

Name of the Textbook: Understanding ISC Mathematics (XI) by M.L.Aggarwal

No. of Working Days: 92

No. of Periods Available: 47

Class: XI

Section: A,B

монтн	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
DECEMBER	18	12)Conic Sections-Parabola,Ellipse & Hyperbola.(Pg.901-976).	SP/PL=e.Parabola.Ellipse.Hyperbola. Definition of Foci, Directrix, Latus Rectum,etc. Various forms and properties of Parabola, Ellipse and Hyperbola.	Conic sections(Ex.12.1-12.4).	Construct different types of conics by PowerPoint Presentation, or by making a model, using the concept of double cone and a plane. Use focal property to construct ellipse,hyperbola.
JANUARY	17	16)Probability.(Pg.803-860).	Means deviation, Standard deviation, Variance. Combined mean and standard deviation. Events: sure events, impossible events, mutually exclusive and exhaustive events. Definition of probability of an event, etc.	textbook and reference books.	Identify the variability and consistency of two Sets of statistical data using the concept of Coefficient of variationAlso construct a sample space by taking a suitable example. Construct the tree structure of the outcomes of a random experiment, when elementary events are not equally likely.
FEBRUARY	12	2 nd Term exam begins from 16 th Feb, 2026. Syllabus for 2 nd Term Exam: Ch 1,Ch 2,Ch 3,Ch 4,Ch 5,Ch 6,Ch 7,Ch 8,Ch 9,Ch 10, Ch 11,Ch 12,Ch 13,Ch 14,Ch 15,Ch 16.	Revision of full syllabus from textbook and reference books.		evano are not equeny meny.
MARCH	00	Correction work continues.			

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Submitted on: 2+4-25
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