

Subject: MATHEMATICS

ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA - 700019

Term: FIRST

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

Name of the book: 1. Understanding ISC Mathematics (XII) by M.L.Aggarwal (MLA)

No. of Working Days: 103 No. of Periods Available: 65 Class: XII

Name of the Subject Co - ordinator : CHAITALI ROY

Section: A,B

	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
APRIL	18	Section - A 1)Ch-1-Relations and Functions, Pg-1 2) Ch-2-Inverse Trigonometric Functions, Pg-92 3) Ch-3-Matrices, Pg-59	1)Types of Relations, Domain & Range of a function, Types of functions, Composite functions and Invertible functions 2)Definition, Domain, Range, Principal Value Branch, 3) Types of Matrices and operations, Order, Equality, Transpose, Symmetric and Skew Symmetric matrix.	1)Selected question from Ex - 1.1 to 1.5 - Pg - 18 to 70 2) Selected questions from Ex-2.1,2.2 - Pg- 102 to 147 3) Selected questions from Ex-3.1 to 3.5-Pg-165 to 218	Cardboard, strings of different colours, pins, adhesive.
MAY		1)Ch-2-Inverse Trigonometric Functions, Pg-92, Contd. 2) Ch-4-Determinants, Pg-230	1)Elementary properties and application of formulae. 2)Order, Minors, Co factors, Expansion, Properties of determinants. Adjoint and Inverse of matrix, Conditions for consistency of equations in two and three variables. Martin's rule. Application of determinant.	1) Ex 3.5 contd 2) Selected questions from Ex-4.1 to 4.4-Pg-238 to 304	Cardboard, strings of different colours, pins, adhesive
JUNE	12	1) Ch-5-Continuity and Differentiability, Pg-336, 2) Ch-7-Applications of Derivatives,Pg-519 3) Ch-4-Determinants contd Unit Test 1 on 16 th June, 2025) (Syllabus for Unit Test 1: Relations & Matrices)	1)Continuity, Differentiability by First principle. First order derivatives and Second order derivatives. 2)Tangent and Normal, Rate Measure, Increasing and Decreasing function, Maxima and Minima 3)Determinants contd	1)Selected questions from Ex-5.1 to 5.10-Pg-351 to 442 2)Selected questions from Ex-7.1 to Ex-7.8 - Pg- 530 to 632 3) Selected questions from Ex-4.5-Pg-319 to 321	Cardboard, strings of different colours, pins, adhesive.
JULY	25	Pg-336	Integration by substitution, Two special forms, Four standard integrals, Seven more standard integrals, Integrals of the types: $\int \frac{px+q}{a^2x^2} dx, \int \frac{px+q}{a^2x^2} dx, \int \frac{dx}{a^2x^2} dx, \int \frac{dx}{a^2x^2} dx$ etc	654 to 719. 2)Selected questions form Ex-1.1 to Ex-1.4-Pg- 1186 to 1254(Section – B) 3) Selected question from Ex- 5.11 to 5.13- Pg-461 to 480	White chart paper, coloured pens, pencil, eraser and thin wires or wool

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 Chailal Ray ... Indianily hosh.

PRINCIPAL.

Submitted on : 21.04.2025

Academic Co-ordinator: Soumak chattergue -

VICE PRINCIPAL



Subject : MATHEMATICS

ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA- 700019

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

Term: FIRST & REHEARSAL TEST

Name of the Subject Co - ordinator : CHAITALI ROY

Name of the books: 1. Understanding ISC Mathematics (XII) by M.L.Aggarwal (MLA)

No. of Working Days: 103+50 No. of Periods Available: 32+42 Class · XII Section : A R

	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
AUGUST	22	(Project 1 submission on 25.8.2025) OR Section – C 1) Ch-1- Application of Calculus in Commerce and Economics, Pg-1443 2)Ch-2-Linear Regression, Pg-1476	and the second s	1) Selected questions from Ex- 1.1 to Ex-1.4-Pg -1446 to 1471 (Section - B) 2) Selected questions from Ex-2-Pg-1493 to 1496 (Section - C)	Cardboard, white paper, geometry box, paper arrow heads, video
SEPTEMBER		Section-A 1) Ch-8- Integrals contd (First Term Exam begins from 15.09.2025), Syllabus for First Term – (Section – A-Ch-1,2,3,4,5,7,8(Ex-8.1 to Ex-8.10), (Section - B - Ch-1), (Section - C- Ch-1,2)		to Ex-8.18-Pg-725 to 860	Geometrical instruments, thin wires, sketch pens, chart paper, and graph papers
OCTOBER	15	Second Term begins from 07 th Oct, 2025 1) Ch-9-Differential Equations, Pg-882 2) Ch-10- Probability-Pg-990 Section – B 3) Ch-2-Three Dimensional Geometry - Pg -1271	Independent events, Laws of total probability, Baye's theorem, Probability distribution and its mean. 3) Cartesian and vector equations and their intersections, Co planar and skew lines, Shortest distance, Different forms,		Cardboard, white paper, geometry box, paper arrow heads, video
NOVEMBER	21	(Project 2 submission on 04.11.2025) (Unit Test 2 begins from 17 th November, 2025) Syllabus: Integrals& Differential Equations Section – B 1) Ch-3-Application of Integrals-Pg-1405 OR Section – C 2) Ch-3-Linear Programming – Pg-1501	advantages of L.P.P, Mathematical formulation of L.P.P, Graphical method of	Pg- 1435 to 1438 Section – B) 2) Selected questions from Ex- 3.1 to Ex-3.2 – Pg- 1506 to 1529	Two pieces of plywood, a thin wooden rod with nuts and bolts fixed on both sides, three pieces of wires, pen or pencil, geometry box and a pair of dice
DECEMBER	06	Rehearsal Examination begins from 08 th Dec, 2025 Syllabus for Rehearsal Examination-(Section- A- Ch- 1,2,3,4,5,7,8, 9,10), (Section-B-Ch-1,2,3),(Section-C Ch-1,2,3)	Revision and examination continues till 19 th Dec, 2025	Revision for Rehearsal Test	

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PRINCIPAL.

VICE PRINCIPAL