





Subject: Mathematics

Syllabus planning for the academic year 2021 - 2022 No. of working days: 85

TERM: First term

CLASS: 11

TEACHER'S NAME: SUKUMAR MANDAL

SECTION: A1, A2, B, C, D

CLASS WORK HOMEWORK MONTH **LESSONS TOPICS COVERED** Selected sums from the examples & Selected sums from the exercises of Laws of Laws of Indices, Logarithm, Laws of Indices, Properties of Logarithm, exercises of Laws of Indices, Logarithm, Indices, Logarithm, Trigonometric Ratios of Associated Values of the angles. Theorems on compound JUNE Trigonometric Ratios of Associated angles, angles, Co-ordinate basics, Compound Trigonometric Ratios of Associated angles, Co-(1st term angles, Transformations of sums or differences ordinate basics, Compound angles, Sums & Co-ordinate basics, Compound angles, Sums angles, Sums & Products. begins 14th Jime) into products and vice versa. Products. & Products. Theorems & formulas on Multiple and Selected sums from the exercises of Selected sums from the examples & Trigonometric ratios of Multiple angles, submultiple angles. exercises of Trigonometric ratios of Multiple Trigonometric ratios of Multiple angles, Submultiple angles. Laws on sets, Relations, different types of JULY angles, Submultiple angles. Submultiple angles. Set theory, Relation & Mapping. functions and domain & co-domain(Range) of 2021

2021	Limit , Differentiation.	Functions. Theorem and Formulas on Limit & Differentiation and their applications.
AUGUST 2021	Mathematical Induction, Complex numbers, Quadratic equations, Linear equations, Sequence & Series.	Application of principle of mathematical induction. Algebra & Properties of complex nos. Theorems, properties & formations of quadratic equations. Linear equations in one & two variables and their properties & graphical solution sets, Sequence, AP, GP.
	Co-ordinate geometry- Straight line.	

Slope of straight line, Different forms of straight line, Angle between two straight lines, Condition of parallelism and perpendicularity of two given straight lines, Perpendicular distance of a given point from a given straight straight line.

Selected sums from the exercises of Slope of straight line, Different forms of straight line, Angle between two straight lines, Condition of parallelism and perpendicularity of two given straight lines, Perpendicular distance of a given point from a given straight straight line.

Set theory, Relation & Mapping.

Limit, Differentiation.

Selected sums from the exercises of Mathematical

Induction, Complex numbers, Quadratic

equations, Linear equations, Sequence & Series .

Selected sums from the examples & exercises of Slope of straight line, Different forms of straight line, Angle between two straight lines, Condition of parallelism and perpendicularity of two given straight lines, Perpendicular distance of a given point from a given straight straight line.

Set theory, Relation & Mapping. Limit, Differentiation.

Selected sums from the examples &

exercises of Mathematical Induction,

Complex numbers, Quadratic equations,

Linear equations, Sequence & Series

Teachers are requested to prepare a LESSON PLAN for each Topic to be taught. The Lesson plans are to be submitted along with the monthly planner.

Submitted Date: 15/03/2021

Signature of Teacher: Sukuman Mandal 15/03/2021

UNIT 5 (Chapter 2 & 3))

First Term online Exam begins on

16th September, 2021. (Syllabus: UNIT

1 full, UNIT 2 (Chapter 3 to 7), UNIT 3 (Chapter

3 to 6 and Chapter 9), UNIT 4 (Chapter 2 only),

PRINCIPAL:

SEPTEMBER

(1st term

15th Sept.

ends on

Academic Co-ordinator: Tougoshue Sherpe (1)3/21

VICE PRINCIPAL:

No. of working days: 52

ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Syllabus planning for the academic year 2021 - 2022

TERM: SECOND TERM

CLASS: 11

TEACHER'S NAME: SUKUMAR MANDAL

Subject: Mathematics

SECTION: A1, A2, B, C, D

MONTH	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
OCTOBER 2021 (2 Nd Term begins on (st oct.)	General solutions of trigonometric equations, Properties of triangles. Project 1: Mathematician and History in Mathematics. (Last date of submission 28th October, 2021)	Find general solutions of various trigonometric equations. Properties of triangles, sine & cosine rules.	Selected sums from the exercises of general solutions of various trigonometric equations. Properties of triangles, sine & cosine rules.	Selected sums from the examples & exercises of general solutions of various trigonometric equations. Properties of triangles, sine & cosine rules.
NOVEMBER 2021	Permutations & Combinations , Binomial Theorem. Co-ordinate geometry – Circle , Parabola.	Arrangements and selections, formulas on $^{n}C_{r}$, $^{n}P_{r}$, $^{n}N_{r}$, $^{$	Selected sums from the exercises of Permutations & Combinations , Binomial Theorem , Circle , Parabola.	Selected sums from the examples & exercises of Permutations & Combinations , Binomial Theorem , Circle , Parabola.
DECEMBER 2021	Co-ordinate geometry –Ellipse, Hyperbola and 3D geometry. Statistics & Probability. Project 2: Statistics. (Last date of submission 11th January, 2022)	Various forms & Properties of Ellipse, Hyperbola. Rectangular Cartesian Co-ordinate system in 3D, Distance between two points, section formulae. Bar graph, pie graph, Line graph, Histogram, Frequency polygon, Ogive.	Selected sums from the exercises of Various forms & Properties of Ellipse, Hyperbola , Rectangular Cartesian Co-ordinate system in 3D, Distance between two points, section formulae, Bar graph , pie graph , Line graph , Histogram, Frequency polygon, Ogive.	Selected sums from the examples & exercises of Various forms & Properties of Ellipse, Hyperbola, Rectangular Cartesian Co-ordinate system in 3D, Distance between two points, section formulae, Bar graph, pie graph, Line graph, Histogram, Frequency polygon, Ogive.
JANUARY 2022	Statistics & Probability , Mathematical Reasoning. The Entire syllabus is completed. Revision of entire syllabus.	Mathematical statements, their types & their negation. Measure of central Tendency, Measure of dispersion (Range, Mean deviation, Standard deviation, Variance). Events, Theorems, Axioms & Results on Probability.	Selected sums from the exercises of Mathematical statements, their types & their negation , Measure of dispersion , Probability.	Selected sums from the examples & exercises of Mathematical statements, their types & their negation, Measure of dispersion, Probability.

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Submitted Date: 15/03/2021

Signature of Teacher: Sukuman Mandal
PRINCIPAL: 15/03/202/

PRINCIPAL:

Academic Co-ordinator: Tayoshue Sheipe 15/3/2)
VICE PRINCIPAL:



No. of working days: 18

ST. LAWRENCE HIGH SCHOOL

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Subject: Mathematics

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TERM: Second term

CLASS: 11

TEACHER'S NAME: SUKUMAR MANDAL

SECTION: A1, A2, B, C, D

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MONTH	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
	Revision of entire			
	syllabus continues			
FEBRUARY				
(2hd2022 Terms ends on 14th Feb.)	Second Term online Exam begins			
ends on	on 17th February , 2022. (Syllabus:			
14th Feb.)	THE ENTIRE SYLLABUS)			

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Submitted Date: 15/03/2021

Signature of Teacher: Sukumar Mandal 15/03/2021

PRINCIPAL

Academic Co-ordinator: Tougobre Shorpe 15/3/21
VICE PRINCIPAL