



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Syllabus planning for the academic year 2020-21

TERM: First term

CLASS: 11

TEACHER'S NAME: Mr. SUKUMAR MANDAL

No. of working days: 03

No. of periods available: 03

Subject: Mathematics

SECTION: A1, A2, B, C, D

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JANUARY					
FEBRUARY					
MARCH					
APRIL	03	Laws of Indices , Logarithm	Laws of Indices, Properties of Logarithm	Selected sums from the exercises of Logarithm & indices	Selected sums from the exercises & examples of Logarithm & indices

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: 27/01/2020

Signature of Teacher: *Sk/Sukummar Mandal*
27/01/2020.

Academic Co-ordinator: *J. Steyer*
28/1/2020

PRINCIPAL:

VICE PRINCIPAL: *[Signature]*
28/1/2020



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Syllabus planning for the academic year 2020-21

TERM: First term & Pre annual

CLASS: 11

TEACHER'S NAME: Mr. SUKUMAR MANDAL

No. of working days: 70

No. of periods available: 53

Subject: Mathematics

SECTION: A1, A2, B, C, D

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
MAY	9	Sequence and Series, Trigo-Associated angles, Co-ordinate basics, Compound angles, Sums & Products	Sequence, AP, GP, Values of the angles, Theorems on compound angles, Transformations of sums or differences into products and vice versa.	Selected sums from the exercises of Sequence and Series, Trigo-Associated angles, Co-ordinate basics, Compound angles, Sums & Products.	Selected sums from the examples & exercises of Sequence and Series, Trigo-Associated angles, Co-ordinate basics, Compound angles, Sums & Products.
JUNE	12	Set theory, Relation Mapping. Trigo- Multiple angles, Submultiple angles. Algeb- Mathematical Induction, Complex numbers.	Laws on sets, Relations, different types of functions and domain & co-domain(Range) of Functions. Theorems & formulas on Multiple and submultiple angles. Application of principle of mathematical induction. Algebra & Properties of complex nos.	Selected sums from the exercises of Set theory, Relation Mapping, Trigo- Multiple angles, Submultiple angles. Algeb- Mathematical Induction, Complex numbers.	Selected sums from the exercises & examples of Set theory, Relation Mapping, Trigo- Multiple angles, Submultiple angles. Algeb- Mathematical Induction, Complex numbers.
JULY	22	Algeb- Quadratic equations, Linear equations, Calculus- Limit, Differentiation, Co-ordinate geometry- Straight line, Circle.	Theorems, properties & formations of quadratic equations. Linear equations in one & two variables and their properties. Theorem and Formulas on Limit & Differentiation and their applications. Different forms of straight line and circle.	Selected sums from the exercises of Algeb- Quadratic equations, Linear equations, Calculus- Limit, Differentiation, Co-ordinate geometry- Straight line, Circle.	Selected sums from the exercises & examples of Algeb- Quadratic equations, Linear equations, Calculus- Limit, Differentiation, Co-ordinate geometry- Straight line, Circle.
AUGUST	10	Trigo-General solutions, Properties of triangles. First Term Exam from 3rd Aug to 17th Aug. (Syllabus : UNIT 1, UNIT 2 (Chapter 3 to 7), UNIT 3 (Chapter 3 to 6), UNIT 4 (Chapter 2 & 3), UNIT 5 (Chapter 2 & 3)) Project 1: Mathematicians and History in Mathematics. (Last date of submission 28th August)	Find general solutions of various trigonometric equations. Properties of triangles, sine & cosine rules.	Selected sums from the exercises of Trigo-General solutions, Properties of triangles.	Selected sums from the exercises & examples of Trigo-General solutions, Properties of triangles.

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Submitted Date: 27/01/2020

Signature of Teacher: *S. Sukumar Mandal*
27/01/2020

Academic Co-ordinator:

J. Shepe. 28/1/2020

PRINCIPAL:

VICE PRINCIPAL:

[Signature]
28/2/2020



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Syllabus planning for the academic year 2020

TERM: Pre Annual

CLASS: 11

TEACHER'S NAME: Mr. SUKUMAR MANDAL

No. of working days: 96

No. of periods available: 64

Subject: Mathematics

SECTION: A1, A2, B, C, D

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
SEPTEMBER	21	Algeb-Permutations & Combinations , Binomial Theorem. Co-ordinate- Parabola.	Arrangements and selections, formulas on $n C_r$, $n P_r$, $n!$ and their applications. General term, Middle term, binomial coefficients. SP/PM=e, Various forms & Properties of Parabola.	Selected sums from the exercises of Algeb-Permutations & Combinations , Binomial Theorem. Co-ordinate- Parabola.	Selected sums from the exercises & examples of Algeb-Permutations & Combinations , Binomial Theorem. Co-ordinate- Parabola.
OCTOBER	13	Co-ordinate- Ellipse, Hyperbola, 3D Introduction.	Various forms & Properties of Ellipse & Hyperbola. Rectangular Cartesian Co-ordinate system in 3D, Distance between two points, section formulae.	Selected sums from the exercises of Co-ordinate- Ellipse, Hyperbola, 3D Introduction.	Selected sums from the exercises & examples of Co-ordinate- Ellipse, Hyperbola, 3D Introduction.
NOVEMBER	19	Mathematical Reasoning , Statistics & Probability. <u>Project 2: Statistics.</u> <u>(Last date of submission 19th November)</u> <u>Entire syllabus will be Completed .</u> <u>Revision of entire syllabus.</u>	Mathematical statements, their types & their negation. Measure of dispersion (Range, Quartile deviation, Mean deviation, Standard deviation, Variance). Events; Theorems, Axioms & Results on Probability.	Selected sums from the exercises of Mathematical Reasoning , Statistics(Measure of dispersion) & Probability.	Selected sums from the exercises & examples of Mathematical Reasoning , Statistics(Measure of dispersion) & Probability.
DECEMBER	7	<u>Revision of entire syllabus.</u>			
JANUARY	4	<u>Revision of entire syllabus.</u>			

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Submitted Date: 27/01/2020.
Signature of Teacher: *Sukumar Mandal*
27/01/2020.

PRINCIPAL

Academic Co-ordinator:

J. Steyer 28/1/2020

VICE PRINCIPAL

[Signature]
28/1/2020