

St. Francis Xavier's College
2022/2023
Mathematics (Core)
Course Outline

Level: F.4

Term: 1

	Topics / Main Theme
1.	Number Systems (Ch.1)
2.	Equations of Straight Lines (Ch.6)
3.	Quadratic Equations in One Unknown (Ch.2)
4.	Introduction to Functions (Ch.3)
5.	Graphs of Quadratic Functions and their Applications (Ch.4)
6.	More about Polynomials (Ch.5)

Modes of Assessment and weighting:

Modes	Regular Tests	Formative Assessments	Examination
Weights	10%	10%	80%

Term: 2

	Topics / Main Theme
1.	Exponential Functions (Ch.7)
2.	Logarithmic Functions (Ch.8)
3.	More about Equations (Ch.9)
4.	Trigonometric Functions (Ch.10)

Modes of Assessment and weighting:

Modes	Regular Tests	Formative Assessments	Examination
Weights	10%	10%	80%

St. Francis Xavier's College
2022/2023
Mathematics (M1)
Course Outline

Level: F.4

Term: 1

	Topics / Main Theme
1	Exponential Functions (Core Math)
2	Logarithmic Functions (Core Math)
3	The Binomial Expansion (Ch. 1)
4	Exponential Functions and Logarithmic Functions (Ch. 2)
5	Limits and derivatives (Ch. 3)
6	Differentiation (Ch. 4)

Modes of Assessment and weighting:

Modes	Regular Tests	Formative Assessments	Examination
Weights	10%	10%	80%

Term: 2

	Topics / Main Theme
1	Application of Differentiation (Ch. 5)
2	Indefinite Integrals and its Applications (Ch. 6)
3	Definite Integrals and its Applications (Ch. 7)

Modes of Assessment and weighting:

Modes	Regular Tests	Formative Assessments	Examination
Weights	10%	10%	80%

St. Francis Xavier's College
2022/2023
Mathematics (M2)
Course Outline

Level: F.4

Term: 1

	Topics / Main Theme
1	Mathematical Induction (Ch.1)
2	Binomial Theorem (Ch.2)
3	Trigonometry (I) (Ch.3)
4	Trigonometry (II) (Ch.4)

Modes of Assessment and weighting:

Modes	Regular Tests	Formative Assessments	Examination
Weights	10%	10%	80%

Term: 2

	Topics / Main Theme
1	Limits and the Number e (Ch.5)
2	Differentiation (Ch.6)
3	Applications of Differentiation (Ch.7)

Modes of Assessment and weighting:

Modes	Regular Tests	Formative Assessments	Examination
Weights	10%	10%	80%