St. Francis Xavier's College
2026/2027
Mathematics (Core)
Course Outline

Level: F.4

Term: 1

	Topics / Main Theme
1.	Quadratic Equations in One Unknown (I) (Ch.1)
2.	Quadratic Equations in One Unknown (II) (Ch.2)
3.	Equations of Straight Lines(Ch.3)
4.	Functions and Graphs(Ch.4)
5.	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 and Logarithmic Functions (Ch.6)
2.	Trigonometry(I) (Ch.8)
3.	More about Equations(Ch.9)
4.	Variations(Ch.7)
5.	Inequalities(Ch.10)

Modes of Assessment and weighting:

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

St. Francis Xavier's College
2026/2027
Mathematics (M1)
Course Outline

Level: F.4
Term: 1

	Topics / Main Theme
1	Binomial Expansion (Ch. 1)
2	Exponential and Logarithmic Functions (Core Math Ch. 6)
3	Exponential Functions and Logarithmic Functions (Ch. 2)
4	Limits and derivatives (Ch. 3)
5	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
2026/2027
Mathematics (M2)
Course Outline

Level: F.4
Term: 1

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

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.4)
2	Differentiation (Ch.5)
3	Applications of Differentiation (Ch.6)

Modes of Assessment and weighting:

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