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

Level: F.5
Term: 1

	Topics / Main Theme
1	Basic Properties of Circles (I) (Ch.11)
2	Basic Properties of Circles (II) (Ch.12)
3	Measures of Dispersion (Ch.13)
4	Trigonometry (II) (Ch.14)

Modes of Assessment and weighting:

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

Term: 2

	Topics / Main Theme
1	Equations of Circles (Ch.15)
2	Locus (Ch.16)
3	Permutation and Combination (Ch.17)
4	More about Probability (Ch.18)
5	Linear Programming (Ch.19)

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.5
Term: 1

	Topics / Main Theme
1	Definite Integration and its Applications (Ch.7)
2	Probability (Compulsory part) + Conditional Probability and Bayes' Theorem (Ch.8)
3	Probability Distribution, Expectation and Variance (Ch.9)

Modes of Assessment and weighting:

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

Term: 2

	Topics / Main Theme
1	Discrete Probability Distributions (Ch.10)
2	The Poisson distribution and its applications (Ch.11)
3	Normal Distribution and its application (Ch.12)
4	Sampling Distribution, Point Estimation and Interval Estimation (Ch.13)

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.5
Term: 1

	Topics / Main Theme
1	Indefinite Integration and its applications (Ch. 7)
2	Definite Integration (Ch. 8)
3	Applications of Definite Integration (Ch. 9)

Modes of Assessment and weighting:

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

Term: 2

	Topics / Main Theme
1	Matrices and Determinants (Ch.10)
2	System of Linear Equations (Ch. 11)
3	Introduction of Vectors (Ch.12)

Modes of Assessment and weighting:

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