

St. Francis Xavier's College
2023/2024
Mathematics (Core)
Course Outline

Level: F.5
Term: 1

	Topics / Main Theme
1	More about inequalities (Ch.1)
2	Variations (Ch.7)
3	Locus (Ch.3)
4	Equations of Circles (Ch.4)
5	Permutation and Combination (Ch.5)
6	Introduction to Probability (Form 3 Ch.12)
7	More about Probability (Ch.6)

Modes of Assessment and weighting:

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

Term: 2

	Topics / Main Theme
1	Linear Programming (Ch.8)
2	More about graphs of functions (Ch.9)
3	Measures of Dispersion (I) (Ch.10)
4	Measures of Dispersion (II) (Ch.11)
5	Applications of Trigonometry in 2-D problems (Ch.2)
6	Applications of Trigonometry in 3-Dimensional Problems (Bk 6 Ch. 3)

Modes of Assessment and weighting:

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

St. Francis Xavier's College
2023/2024
Mathematics (M1)
Course Outline

Level: F.5

Term: 1

	Topics / Main Theme
1	Further Probability (Ch.8)
2	Probability distribution, Expectation and Variance (Ch.9)
3	Discrete Probability Distributions (Ch.10)

Modes of Assessment and weighting:

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

Term: 2

	Topics / Main Theme
1	Continuous Random Variables and Normal Distribution (Ch.11)
2	Point Estimates and Sampling Distribution (Ch.12)

Modes of Assessment and weighting:

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

St. Francis Xavier's College
2023/2024
Mathematics (M2)
Course Outline

Level: F.5

Term: 1

	Topics / Main Theme
1	Indefinite Integration and its applications (Ch. 8)
2	Definite Integration (Ch. 9)
3	Applications of Definite Integration (Ch. 10)

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.11)
2	System of Linear Equations (Ch. 12)
3	Introduction of Vectors (Ch.13)
4	Scalar Products and Vector Products (Ch.14)

Modes of Assessment and weighting:

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