

DELHI PUBLIC SCHOOL, JAMMU
SYLLABUS BIFURCATION
SESSION: 2023-24

Class: XII

Subject: Mathematics (041)

Mathematics has always occupied an important place in the school curriculum. The study of mathematics requires special ability of intelligence. Mathematical skills and their applications form an indispensable tool in our daily life. It has been rightly said that higher the achievement in the field of mathematics, so is the nations development. There is hardly any subject in which mathematics has no role to play.

Objectives:

The broad objective of teaching Mathematics at Senior School stage intends to help the students:

1. To develop positive attitude to think, analyze and articulate logically.
2. To feel the flow of reasons while proving a result or solving a problem
3. To develop interest in the subject by participating in the related competitions
4. To develop an interest in the students to study Mathematics as a discipline.

S.No	Month	Name of units
1	April	Relations and functions, Inverse Trigonometric functions Foundation worksheet Activity
2	May	Algebra (Matrices) Assignment-1 Kahoot quiz
3	June	Algebra (Determinants) Class test -1
4	July	Calculus (Continuity) Assignment -2 Experiential learning
5	August	Calculus (Differentiability) Foundation worksheet Assignment-3
6	September	Calculus (Applications of derivatives) Kahoot quiz
7	October	Calculus (Integrals and Differential equations) Assignment-4 Class test-2
8	November	Vector and Three-Dimensional Geometry and Probability Assignment-5 Activity
9	December	Linear Programming Assignment-6 Experiential learning Activity
10	January	Activities/Revision
11	February	Revision

Exam Schedule:

Syllabus of Formative Assessment-1:

- 1. Relations and Functions**
- 2. Inverse Trigonometric Functions**
- 3. Matrices**
- 4. Determinants**

Syllabus of Half –Yearly:

- 1. Relations and Functions**
- 2. Inverse Trigonometric Functions**
- 3. Matrices**
- 4. Determinants**
- 5. Continuity and Differentiability**
- 6. Applications of Derivatives**

Syllabus of Pre-Board -1:

- 1. Relations and Functions**
- 2. Inverse Trigonometric Functions**
- 3. Matrices**
- 4. Determinants**
- 5. Continuity and Differentiability**
- 6. Applications of Derivatives**
- 7. Integrals (Definite and indefinite)**
- 8. Differential Equations**
- 9. Vectors**
- 10. Three-Dimensional Geometry**
- 11. Linear Programming**

Syllabus of Pre-Board -2:

- 1. Relations and Functions**
- 2. Inverse Trigonometric Functions**
- 3. Matrices**
- 4. Determinants**
- 5. Continuity and Differentiability**
- 6. Applications of Derivatives**
- 7. Integrals (Definite and indefinite)**
- 8. Differential Equations**
- 9. Vectors**
- 10. Three-Dimensional Geometry**
- 11. Linear Programming**
- 12. Probability**

Subject Coordinator