## Class - XI

## Sub: MATHEMATICS

## Weekly Syllabus

Academic Session 2023-24

| Month | Week | Dates |  | Days | No of Periods | Chapter | Contents | Syllabus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Apr-23 | IV | 17-21 |  | 05 | 08 | $\begin{aligned} & \text { Chapter } 1 \\ & \hline \text { Sets } \end{aligned}$ | Sets \& their Representations, Empty Sets, Finite \& Infinite Sets, Equal Sets, Subsets, Subsets of a set of real numbers especially intervals, Universal Set |  |
|  | V | 24-29 | 29-Working Saturday (Student) <br> 29 - Parent Orientation VI \& IX | 06 | 08 | $\begin{aligned} & \text { Chapter } 1 \\ & \text { Sets } \end{aligned}$ | Venn Diagrams, Operations on Sets, Difference of sets, |  |
| May-23 | I | 01-05 | $\begin{aligned} & 05 \text { - Budha Purnima } \\ & 01-04 \text { : ES-1 (XII)/ CT-1 } \\ & \text { (X) } \end{aligned}$ | 04 | 06 | Chapter 1 <br> Sets <br> Chapter 6 <br> Linear Inequalities | Complement of a set, properties of Complement <br> Inequalities, Algebraic Solutions of Linear Inequalities in One Variable and their representation on the number line | ES-1 (XII)/ CT-1 (X) Date: 01-08 May |
|  | II | 08-12 | $\begin{aligned} & 08 \text { : ES-1 (XII)/ CT-1 (X) } \\ & 11,12 \text { - The Quest } \end{aligned}$ | 05 | 08 | Chapter 6 <br> Linear Inequalities | Algebraic Solutions of Linear Inequalities in One Variable |  |
|  | III | 15-20 | 20- Working Saturday (Open House X \& XII) | 06 | 08 | Chapter 6 <br> Linear Inequalities | Algebraic Solutions of Linear Inequalities in One Variable |  |
| ***** SUMMER BREAK 22 MAY -30 JUN 2023 ****** |  |  |  |  |  |  |  |  |
| Jul-23 | 1 | 01- | 01- School reopens for staff | 01 |  |  |  | PT-I <br> Class VI-X Date: 07 Jul - |

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| Sep-23 | II | 07-11 |  | 05 | 08 | Chapter 3 <br> Trigonometric Functions | Identities related to $\sin 2 x, \cos 2 x$, $\tan 2 x, \sin 3 x, \cos 3 x \& \tan 3 x$ |  |
|  | III | 14-18 | 15 - Independence Day | 04 | 06 | Chapter 5 <br> Complex Numbers and Quadratic Equations | Definition, Algebra of Complex Numbers, Modulus and Conjugate of Complex number, Argand plane |  |
|  | IV | 21-26 | 24,25-Class Test <br> 26-Working Saturday (Students) <br> 26-Annual Prize Distribution | 06 | 06 | Chapter 9 <br> Sequences and Series | Sequences \& Series, Geometric Progression, A.M. | ES-1 (XI): 21 Aug - 25 Aug <br> Chapter 1 <br> Sets <br> Chapter 3 <br> Trigonometric <br> Functions <br> Chapter 6 <br> Linear Inequalities |
|  | V | 28-31 | 30-Raksha Bandhan 28,29 -Class Test | 03 | 05 | Chapter 9 <br> Sequences and Series | Relationship between A.M. \& G.M <br> Infinite G.P. and its Sum |  |
|  | I | 01 | 01 -Class Test | 01 | 01 |  | REVISION |  |
|  | II | 04-08 | 07-Janmashtami | 04 |  |  |  | Mid Term (PT-II)/ |
|  | III | 11-16 | 16 - Working Saturday (Students) | 06 |  |  | Term/ HYE Exam | HYE <br> Date 11-23 Sep |
|  | IV | 18-23 | 23 - Working Saturday (Students) | 06 |  |  |  | $\frac{\text { Chapter } 1}{\text { Sets }}$ |
|  | V | 25-30 | 28-Milad-un-Nabi | 04 | 06 | Chapter 7 <br> Permutations \& Combinations | Fundamental principle of counting, factorial $n(n!)$, Permutations | Chapter 2 <br> Relations and Functions Chapter 3 <br> Trigonometric Functions |


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|  |  |  |  |  |  |  |  | Chapter 5 <br> Complex Numbers and Quadratic Equations <br> Chapter 6 <br> Linear Inequalities <br> Chapter 9 <br> Sequences and Series |
| Oct-23 | II | 02-07 | 02-Mahatma Gandhi's Birthday 07-Annual Prize Distribution | 05 | 06 | Chapter 7 <br>  <br> Combinations | Combinations Simple applications |  |
|  | III | 09-14 | 14- Working Saturday(Open House VI-XII) | 06 | 08 | Chapter 8 <br> Binomial Theorem <br> Chapter 10 <br> Straight Lines | Binomial theorem for positive integral indices, Pascal's Triangle, simple applications <br> Slope of a Line, Angle between two lines |  |
|  | IV | 16-20 |  | 05 | 08 | Chapter 10 <br> Straight Lines | Various Forms of the Equations of a Line |  |
|  | V | 23-27 | 23- Autumn Break <br> 24- Dussehra <br> 28-Maharishi Valmiki's Birthday | 03 | 04 | $\begin{aligned} & \text { Chapter 10 } \\ & \hline \text { Straight Lines } \end{aligned}$ | Various Forms of the Equations of a Line |  |
|  | VI | 30-31 |  | 02 | 03 | Chapter 10 Straight Lines | Distance of a Point from a Line |  |
| *** Autumn Break 23 Oct 2023 *** |  |  |  |  |  |  |  |  |
| Nov-23 | I | 01-04 | 01- Karwa Chouth <br> 04 - Working Saturday (Students) | 03 | 04 | Chapter 12 <br> Introduction to Three Dimensional Geometry | Introduction, Coordinate Axes and Coordinate Planes in Three Dimensional Space, Coordinates of a Point in Space |  |
|  | II | 06-10 | 07 - Annual Day | 05 | 06 | Chapter 12 <br> Introduction to <br> Three Dimensional | Distance between Two Points |  |


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|  |  |  |  |  |  | Geometry <br> Chapter 11 <br> Conic Sections | Introduction, Section of a Cone, Circle |  |
|  | III | 13-18 | 11-15 - Diwali Break | 03 | 04 | Chapter 11 Conic Sections | Parabola | $\begin{aligned} & \text { ES-2 (XI): } 21 \text { Nov-14 } \\ & \text { Dec } \end{aligned}$ |
|  | IV | 20-24 |  | 05 | 08 | Chapter 11 Conic Sections | Ellipse | Chapter 7 <br>  <br> Combinations |
|  | V | 27-30 | 27 - Guru Nank's Birthday | 03 | 03 | Chapter 11 <br> Conic Sections | Hyperbola | Chapter 10 <br> Straight Lines |
| Dec-23 | I | 01-02 | 01,02 - Annual Athletic Meet | 02 | 02 | Chapter 13 <br> Limits and Derivatives | Introduction, intuitive idea of limits, limits of polynomial \& rational functions |  |
|  | II | 04-09 | 09 - Sports Day | 06 | 08 | Chapter 13 <br> Limits and Derivatives | Limits of trigonometric functions, Limits of Exponential and Logarithmic functions |  |
|  | III | 11-16 | 16-Working Saturday, Open House (IX,X \& XII) | 06 | 08 | Chapter 13 <br> Limits and Derivatives | Definition of derivative, derivative of sum, difference, product and quotient of functions |  |
|  | IV | 18-22 | 20-22 - TAFS MUN <br> 24,25 - Christmas Holidays | 05 | 08 | Chapter 13 <br> Limits and Derivatives | Derivative of sum, difference, product and quotient of functions |  |
| *** Winter Break from 26 Dec to 05 Jan 2024 *** |  |  |  |  |  |  |  |  |
| Jan-24 | I | 08-12 |  | 05 | 08 | Chapter 16 Probability | Random Experiments, Types of Experiments Axiomatic Approach to Probability | Pre-Board (X \& XII): 09 Jan-23 Jan |


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|  | II | 15-20 | 20-Working Saturday, Open House (VIVIII, XI) | 06 | 08 | $\frac{\text { Chapter } 16}{\text { Probability }}$ | (cont.) Axiomatic Approach to Probability |  |
|  | III | 22-27 | 26-Republic Day <br> 27- Farewell XII | 05 | 08 | $\begin{aligned} & \hline \text { Chapter } 15 \\ & \text { Statistics } \end{aligned}$ | Introduction, Measures of Dispersion, Range, Mean Deviation |  |
|  | IV | 29-31 |  | 03 | 04 | $\text { Chapter } 15$ <br> Statistics | Variance and Standard Deviation of grouped or ungrouped data |  |
| Feb-24 | I | 01-03 | 01,02- Class Test <br> 03-Working Saturday, Citation Ceremony, Open House (X\& XII) | 03 |  |  | Revision |  |
|  | II | 05-09 | 05-08- Class Test | 05 |  |  | Revision | Annual Exam Class IX \& XI - 07 Feb-21 Feb 2023 |
|  | III | 12-16 |  | 05 |  |  |  | Complete syllabus |
|  | IV | 19-23 |  | 05 |  |  |  |  |
|  | V | 26-29 |  | 04 |  |  |  |  |
| Mar-24 | Annual Exam Classes VI-VIII - 26 Feb-11 Mar 2024 |  |  |  |  |  |  |  |

Note: The examination syllabus as mentioned above is to be considered Tentative. The final syllabus for each exam will be uploaded on the website along with the Date Sheet at the time of the examination.

