

# SYLLABUS 2021-22

## CLASS - 11 - Sci

### *Content*

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**Biology**

**Maths**

**Physics**

**Chem**

**English**

**Computer**

## Maths- 11<sup>th</sup> (Sci)

S.N.	Month	Topic	Sub Concept
1	June	Ch -1 Sets	<ul style="list-style-type: none"> <li>-Sets and their Representations</li> <li>- Types of Sets</li> <li>- Operation of Sets</li> </ul>
2	July	Ch - 2 Relations & Functions  Ch - 3 Trigonometric Functions  Ch - 4 Principle of Mathematical Induction	<ul style="list-style-type: none"> <li>- Cartesian product of sets</li> <li>- Relations</li> <li>- Functions</li> <li>- Angles</li> <li>- Trigonometric Functions</li> <li>- Sum and Different of Two angles</li> <li>- Trigonometric Equations</li> <li>- Principle of Mathematical Induction</li> </ul>
3	Aug	Ch - 5 Complex Numbers and Quadratic Equations  Ch - 6 Linear Inequalities  Ch - 7 Permutations and Combinations	<ul style="list-style-type: none"> <li>- Algebra of Complex Numbers</li> <li>- The modulus and Conjugate</li> <li>- Argand plane and Polar Representation</li> <li>- Quadratic Equations</li> <li>- Inequalities</li> <li>- Algebraic Solutions</li> <li>- Graphical Solutions</li> <li>- Permutations and Combinations</li> <li>- Fundamental Principle of Counting</li> <li>- Permutations</li> <li>- Combinations</li> </ul>
4	Sep	Ch - 8 Binomial Theorem  Ch - 9 Sequences and series	<ul style="list-style-type: none"> <li>- Binomial Theorem for positive Integral Indices</li> <li>- General and Middle Terms</li> <li>- Sequences</li> <li>- series</li> <li>- Arithmetic Progression (A.P)</li> <li>- Geometric Progression (G.P)</li> <li>- Relationship between A.M and G.M</li> <li>- Sum to <math>n</math> terms of special series</li> <li>- Straight Line</li> </ul>
5	Oct	Ch - 10 Straight lines	<ul style="list-style-type: none"> <li>- Slope of a Line</li> <li>- Various Forms of the Equation of a Line</li> <li>- General Equations of a Line</li> </ul>

## Maths- 11<sup>th</sup> (Sci)

S.N.	Month	Topic	Sub Concept
		Ch - 11 Conic Sections	<ul style="list-style-type: none"> <li>- Distance of a Point From a Line</li> <li>- Sections of a Cone</li> <li>- Circle</li> <li>- Parabola</li> <li>- Ellipse</li> <li>- Hyperbola</li> </ul>
6	Nov	Ch - 11 Conic Sections (Continue)	-
7	Dec	Ch - 12 Introduction to 3-D Geometry  Ch - 13 Limits & Derivatives	<ul style="list-style-type: none"> <li>- Coordinate Axes and Coordinate Planes in 3-D</li> <li>- Coordinates of a Point in Space</li> <li>- Distance between Two Points</li> <li>- Section Formula</li> <li>- Intuitive Idea of Derivatives</li> <li>- Limits</li> <li>- Limits of Trigonometric Functions</li> <li>- Derivatives</li> </ul>
8	Jan	Ch - 14 Mathematical Reasoning  Ch - 15 Statistics	<ul style="list-style-type: none"> <li>- Statements</li> <li>- New Statement from Old</li> <li>- Special words/Phrases</li> <li>- Implications</li> <li>Validating Statements</li> <li>- Measures of Dispersion</li> <li>- Range</li> <li>- Mean Deviation</li> <li>- Variance and Standard Deviation</li> <li>- Analysis of Frequency Distributions</li> </ul>
9	Feb	Ch - 16 Probability	<ul style="list-style-type: none"> <li>- Random Experiments</li> <li>- Event</li> <li>-Axiomatic Approach to Probability</li> </ul>
10	March	Revision for exam	Revision for exam

**STD : 11<sup>TH</sup>**

**SUB: CHEMISTRY**

<b>Month</b>	<b>Chapters &amp; Topics</b>
June	Ch-1 : Some basic concepts of chemistry (Complete) Ch-2 : Structure of Atom (Continue)
July	Ch-2 Structure of Atom Ch-3 Classification of Elements & periodicity in properties Ch-4 : Chemical bonding & molecular structure (Continue)
August	Ch-4 Chemical bonding & molecular structure Ch-5 : States of matter (Continue)
September	Ch-5 States of matter Ch-6 Thermodynamics Ch-7 : Equilibrium (Continue)
October	<b>Revision</b>
November	Ch-7 Equilibrium Ch-8 Redox Reaction
December	Ch-9 Hydrogen Ch-10 S-block Elements (Continue)
January	Ch-11 P-block Elements
February	Ch-12 Organic chemistry - some basic principal & Techniques Ch-13 Hydrocarbon (Continue)
March	Ch-13 Hydrocarbon Ch-14 Environmental chemistry

STD : 11<sup>TH</sup>**SUB: PHYSICS – 2021-22**

Month	Chapters & Topics
June	Part – 1 Ch.1: Physical world Topics: 1.1 to 1.5 Ch.2: Units And Measurements Topics: 2.1 to 2.10
July	Ch.2: Units And Measurements (continued) Topics: 2.1 to 2.10 Ch.3: Motion in Straight line Topics: 3.4 to 3.7 Ch.4: Motion in Plane Topics: 4.1 & 4.4
August	Ch.5: Law of Motion Topics: 5.1 to 5.11 Ch.6: Work, Energy And Power Topics: 6.1 to 6.12
September	Ch.7: System of Particles and Rotational Motion Topics: 7.1 to 7.14 Ch.8: Gravitation Topics: 8.1 to 8.12
October	Ch.8: Gravitation ( Continued ) Topics: 8.1 to 8.12
November	Ch.9: Mechanical Properties of Solids Topics: 9.1 to 9.7
December	Ch.10: Mechanical properties of Fluids Topics: 10.1 to 10.7 Ch.11: Thermal Properties of Matter Topics: 11.1 to 11.10
January	Ch.12: Thermodynamic Topics: 12.1 to 12.13 Ch.13: Kinetic Theory Topics: 13.1 to 13.7
February	Ch.14: Oscillations Topics: 14.1 to 14.10 Ch.15: Waves Topics: 15.1 to 15.8
March	Ch.15: Waves ( Continued ) Topics: 15.1 to 15.8 Revision
April	Revision Final Exam

**STD : 11<sup>TH</sup>**

**SUB: BIOLOGY**

<b>Month</b>	<b>Chapters &amp; Topics</b>
June	Ch.1 The Living World Ch.2 Biological Classification
July	Ch.3 Plant Kingdom Ch.4 animal Classification Ch.5 Morphology of Flowering Plant
August	Ch.6 Anatomy of Flowering Plant Ch 7 Structural Organization in Animals Ch-8 Cell: The Unit of life
September	Ch-9 Cell cycle & Cell Division Ch. 10 Biomolecules Ch 11 Transport in plants
October	Ch 11 Transport in plants Ch 12 Mineral Nutrition Ch.13Photosynthesis in higher plants
November	Ch.13Photosynthesis in higher plants
December	Ch 14 Respiration in Plants Ch 15 plant Growth & Development Ch 16 Digestion & Absorption
January	Ch 17 Breathing & Exchange of gases Ch.18 Body Fluids & Circulation Ch 19 Excretory Products & their Elimination
February	Ch 20 Locomotion & Movement Ch 21 Neural Control & coordination
March	Ch 22 Chemical Coordination & Integration
April	Revision Final Exam

# ENG. GSEB STD 11 COMPUTER

Sr. No	Month	Topic	Sub Topic	Activity
1	July	Ch-9 Introduction to Database Management System  Ch-10 Working with Tables	Database Management System, Creating a sample Database for an Application, Data types, Numeric Types, Using Design View, Primary key, Save table  Insert data in the table, Editing, Delete records, sorting data, controlling data redundancy, Referential Integrity, Field properties	Create a data base table.
2	Aug	Ch-11 Retrieving Data Using Queries	Defining query, Using Wizard, Using Design View, Editing query, Using multiple fields, Performing calculations, Grouping the data, Parameter query, SQL	Perform queries on your data base table.
3	Aug	Ch- 12 Forms and Reports	Creating form using wizard, modifying form, moving control, change the date field, change background, search a record using form, Reports	Create form and report for your table.
4	Sep	Ch-13 Current trends and Technologies	Mobile computing, Wi-Fi, GPRS, 3G and 4G, Bluetooth, Smart phones and Tablets, Cloud computing, RFID, Biometrics, GPS, computer control devices, Digital photography, Green computing	Discuss about latest trends in current technologies.
5	Oct	Ch-1 Introduction to Multimedia  Ch-2 Animation Tool: Synfig	Multimedia, Elements, Usage, Stages in multimedia Production  Toolbox, Canvas, Panels, Creating new file, Tools, BLine Tool, Zoom Tool, Smooth Move tool	Prepare an animation in Synfig
6	Nov	Ch-3 Creating Animation Using Synfig  Ch-4 Introduction to Layers	Time bar, editing mode, key frame, Time loop  Layers, Rotation on specified path	Use the frames and layers in your animation.
7	Dec	Ch-5 Using Pictures in Synfig  Ch-6 Basic Ubuntu Linux commands	Inserting Image, Masking, Creating slideshow using Synfig, Interactivity  Starting Up the terminal, Listing the shells, Command Syntax, General Commands, echo, passwd, clear, working with directories, Working with files, I/O redirection,	Work with basic commands of Ubuntu Linux
8	Jan	Ch-7 Vim Editor and Basic Scripting	Vim Modes, Creating file in Vim, Editing the document, Searching and replacing text, Executing Linux command through Vim, Shell script,	Work with Vim editor and prepare scripts.
9	Feb	Ch-8 Advanced scripting	Finding process ID, Decision making task, The test command, Handling repetition, Functions	Perform advanced commands in Vim editor

**Paper Style – 11**

For all the round's - MCQS