

ST. JOSEPH'S CONVENT HR. SEC SCHOOL, SAMBALPUR
SYLLABUS 2026-2027
CLASS 12 ENGLISH LANGUAGE

| MONTHS | CHAPTER |
|------------------------------|---|
| February | Practice Paper 1,2 |
| March- April | Practice Paper 1,2 |
| June | Practice Paper 5,6 |
| July | Practice Paper 7 |
| QUARTERLY EXAMINATION | |
| August | Practice Paper 8,9 |
| September | HALF YEARLY EXAMINATION Practice Paper 10 |
| October | Practice Paper 11,12 |
| November- December | Specimen Paper Practice |
| January | MODEL EXAMINATION |
| February | I.S.C BOARD EXAMINATION |

**CLASS 12 ENGLISH LITERATURE
2026-2027**

| MONTHS | CHAPTER |
|-----------------|---|
| February | Play- Act 3, scene 1,2 Beethoven Alithi |
| March- April | Act 3, scene 3,4 Telephone Conversation The Cookie Lady |
| June | Act 3, Scene 5,6 Tithonus There will come soft rains |
| July | QUARTERLY EXAMINATION |
| August | Act 4, Scene 1 Small Towns and a River |
| September | HALF YEARLY EXAMINATION |
| October | Act 4, Scene 2,3 Indigo |
| November | Act 5, scene 1,2,3,4,5 The Medicine Bag |
| December | Act 5, scene 6,7,8,9 Death Be Not Proud |
| January | MODEL EXAMINATION |
| February | I.S.C BOARD EXAMINATION |

**CLASS 12 MATHEMATICS
2026-2027**

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|---|---|
| BOOK | Text Book: ISC MATHEMATICS BOOK 2 FOR CLASS XII By S.Chand Publications |
| MONTHS | CHAPTER |
| February | Ch 4. Determinants Ch 5, 6 Matrices Ch 23 Linear Programming |
| March | Ch 1 Relations Ch 2 Functions Ch 3 Inverse Trigonometric Function |
| April - June | Ch 7 Continuity and Differentiability of Function Ch 8 Differentiation Ch 9 Application of Derivatives |
| QUARTERLY EXAMINATION (CHAPTERS- 1,2,3,4,5,6,7,8,23) | |
| July - August | Ch 9 Maxima and Minima Ch 11 Indefinite Integral -1 (Standard forms) Ch 12 Indefinite Integral – 2 (Methods of Integration) Ch 13 Indefinite Integral- 3 (Special Integrals) Ch 14 Definite Integrals Ch 15 Area under the Curve |
| HALF YEARLY EXAMINATION (CHAPTERS- 1,2,3,4,5,6,7,8,9,10,11,12,13,23) | |
| September- November | Ch 16 Differential Equations Ch 17, 18, 19 Vectors Ch 20, 21, 22 Probability Three Dimensional Geometry Ch 24 Probability Ch 25 Baye's Theorem Ch 26 Theoretical Probability Distribution |
| December | Revision |
| January | MODEL EXAMINATION |
| February | ISC Board Examination |

**CLASS 12 APPLIED MATHEMATICS
2026-2027**

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|---|--|
| BOOK | ISC MATHEMATICS BOOK 2 FOR CLASS XII By S.Chand Publications |
| MONTHS | CHAPTER |
| February | Ch 4. Determinants Ch 5, 6 Matrices Ch 23 Linear Programming |
| March | Ch 1 Relations Ch 2 Functions Ch 3 Inverse Trigonometric Function |
| April - June | Ch 23,24 Index Numbers and Moving Averages Ch 8 Differentiation Ch 9 Application of Derivatives |
| QUARTERLY EXAMINATION (CHAPTERS- 1,2,3,4,5,6,7,8,21) | |
| July - August | Ch 9 Maxima and Minima Ch 10 Indefinite Integral -1 (Standard forms) Ch 11 Indefinite Integral – 2 (Methods of Integration) Ch 12 Indefinite Integral- 3 (Special Integrals) Ch 13 Definite Integrals |
| HALF YEARLY EXAMINATION (CHAPTERS- 1,2,3,4,5,6,7,8,9,10,11,12,13,21,23,24) | |
| September- November | Ch 14 Differential Equations Ch 15 Application of Calculus in Commerce and Economics Ch 17 Probability Ch 18 Baye's Theorem Ch 19,20 Theoretical Probability Distribution Ch 22 Financial Mathematics |
| December | Revision |
| January | ISC Model Examination |
| February | ISC Board Examination |

CLASS 12 PHYSICS
2026-2027

| MONTHS | CHAPTER NAME |
|--|---|
| February | Chapter 1 Electric Charge and Electric Field |
| March | Chapter 2 Electric Potential and Capacitor Chapter 14 Semi-Conductor Devices |
| April | Chapter 13 Atom And Nuclei |
| June | Chapter 3 Current Electricity |
| Quarterly Examination Chapters – 1, 2, 3, 13,14 | |
| July | Chapter 9 Optics (Reflection and Refraction of Light) Chapter 10 Optics (Dispersion) |
| August | Chapter 4 Magnetic Effect of Current |
| Half Yearly Examination Chapter 1,2,3,4,9,10,13,14 | |
| September | Chapter 5 Magnetism Chapter 6 Electromagnetic Induction |
| October | Chapter 12 Dual Nature of Matter and Radiation |
| November | Chapter 11 Wave Optics Revision |
| December | Revision Practical Exam |
| January | Revision ISC Model Examination |
| February | ISC Board Examination |

CLASS 12 CHEMISTRY
2026-2027

| MONTHS | CHAPTER NAME |
|---|--|
| February | Chapter 1 Solutions |
| March | Chapter 2 Electrochemistry |
| April | Chapter 2 Electrochemistry(contd.) Chapter 3 Chemical Kinetics |
| June | Chapter 3 Chemical Kinetics(contd.) |
| Quarterly Examination- Chapters – 1, 2, 3 | |
| July | Chapter 6 Haloalkanes & Haloarenes |
| August | Chapter 7 Alcohols, Phenols and Ethers |
| Half Yearly Examination: Chapter 1,2,3,6,7 | |
| September | Chapter 8 Aldehydes, ketones and Carboxylic Acids Chapter 9 Organic Compounds containing Nitrogen |
| October | Chapter 4 d-and f- Block Elements Chapter 5 Coordination Compounds |
| November | Chapter 5 Coordination Compounds(contd.) Chapter 10 Biomolecules |
| December | Revision <u>Practical Exam</u> |
| January | ISC Model Examination |
| February | ISC Board Examination |

CLASS 12 BIOLOGY
2026-2027

| BOOK | A Text Book Of ISC Biology (S.Chand) | |
|---|---|---|
| MONTHS | CHAPTER | |
| February | 1 | SEXUAL REPRODUCTION IN FLOWERING PLANTS |
| | 2 | HUMAN REPRODUCTION |
| | 3 | REPRODUCTIVE HEALTH |
| April- June | 4 | PRINCIPLES OF INHERITANCE AND VARIATION |
| | 5 | CHROMOSOMES, SEX LINKED INHERITANCE AND GENETIC DISORDERS |
| | 6 | MOLECULAR BASIS OF INHERITANCE |
| QUARTERLY EXAMINATION | | |
| CHAPTER NO-1,2,3,4,5 | | |
| July | 7 | EVOLUTION- ORIGIN OF LIFE |
| | 8 | THEORIES OF EVOLUTION |
| | 9 | HUMAN HEALTH AND DISEASES |
| | 10 | ADOLESCENT ISSUES |
| August | 11 | MICROBES IN HUMAN WELFARE |
| | 12 | PRINCIPLES AND PROCESSES OF BIOTECHNOLOGY |
| HALF YEARLY EXAMINATION | | |
| CHAPTER NO-1, 2,3,4,5,6,7,8,9,10,11,12 | | |
| September | 13 | BIOTECHNOLOGY AND ITS APPLICATIONS |
| | 14 | ORGANISMS AND POPULATIONS |
| October | 15 | ECOSYSTEM |
| November | 16 | BIODIVERSITY AND CONSERVATION |
| December | REVISION | |
| January | ISC Model Examination | |
| February | ISC Board Examination | |

CLASS 12 COMPUTER SCIENCE
2026-2027

| Month –February ’2026 | | |
|------------------------------|--|---|
| 01 | Revision work of Class-11 | <ul style="list-style-type: none"> ➤ Propositional Logic and Hardware – different types of gates – AND , OR, NOT , NAND , NOR , XOR etc. |
| | Programming & Propositional logic | <ul style="list-style-type: none"> ➤ Special Circuits – Half adder, Full adder, encoder and decoder of different dimensions. |
| | | <ul style="list-style-type: none"> ➤ Programming practice based on numeric functions |
| | | <ul style="list-style-type: none"> ➤ Array Programming Practice – One & two dimensions |
| | | <ul style="list-style-type: none"> ➤ Practice of conditional and Looping programs |
| | | <ul style="list-style-type: none"> ➤ Sum series and pattern based programs |
| Month –March’2026 | | |
| 02 | Boolean Algebra | <ul style="list-style-type: none"> ➤ Canonical Expression in Boolean algebra ➤ SOP & POS (minterm and maxterm) ➤ Deriving SOP and POS from truth table ➤ Writing decimal values and binary value of Boolean expression ➤ Conversion from SOP to POS , POS to SOP |
| Month –April’2026 | | |
| 03 | Data Structure | <ul style="list-style-type: none"> ➤ Definition of data structure |
| | | <ul style="list-style-type: none"> ➤ Types of data structure(Linear & non linear |
| | | <ul style="list-style-type: none"> ➤ Advantages of Data Structure |
| | | <ul style="list-style-type: none"> ➤ Time and space complexity in data structure |
| | | <ul style="list-style-type: none"> ➤ LIFO and FIFO data structure |
| | | <ul style="list-style-type: none"> ➤ Overflow and under flow in data structure |
| Month –June ’2026 | | |
| 04 | Data Structure | <ul style="list-style-type: none"> ➤ Linear Data Structure – Array, linked List, Stack and used queue. ➤ Singly linked list and doubly linked list. ➤ Dqueue & Circular Queue ➤ Non Linear Data structure- Tree, terms used in tree ➤ Tree traversal – In order ,preorder and post order ➤ Binary tree , Search tree ➤ Different types of pointers used in data structure like- MAX ,AVAIL,NULL,TOP,FRONT, REAR etc. |
| Month – July’2026 | | |
| 05 | Algorithms used in data structure. | <ul style="list-style-type: none"> ➤ Algorithms used in array – traversal, storing, searching, sorting – using one and two dimensional arrays. ➤ Memory address calculation using – Row Major Order and column major order. ➤ Algorithms used in stack – PUSH & POP operation |

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| | | <ul style="list-style-type: none"> ➤ Algorithms used in linked list. ➤ Algorithms used in tree – in , post , pre order ➤ Evaluation of expression using stack operation |
| Month – August '2026 | | |
| 06 | Arrays & String in java | <ul style="list-style-type: none"> ➤ Different types of array-1 & 2 dimensional ➤ Array programming ➤ Sorting and searching techniques in array. ➤ String operation in java ➤ String Library functions in java ➤ String programming. |
| Month – September '2026 | | |
| 07 | User Define Function | <ul style="list-style-type: none"> ➤ Definition of function. ➤ Type of function(Returnable & non-returnable) ➤ Header Line and Prototype of a function ➤ Function Overloading ➤ Definition of Constructor & it's importance ➤ Types of constructor (default & Parameterized) ➤ Use of constructor in java program |
| Month –October '2026 | | |
| 08 | Inheritance and Polymorphism | <ul style="list-style-type: none"> ➤ Definition of Polymorphism and its uses. ➤ Static and dynamic polymorphism. ➤ Types and advantages of inheritances – Single Inheritance, Multiple Inheritance, Multilevel inheritance, and their programming in java. ➤ Nested class and abstract class and abstract function in java. Function overriding, use of this keyword and super keyword. |
| Month –November '2026 | | |
| 09 | Recursion in java | <ul style="list-style-type: none"> ➤ Definition of recursion , Types of recursion , advantages of recursions (Direct and tail recursion) ➤ Tower and Honai Problems ➤ Programming using the concept of recursion. |
| Month –December '2026 | | |
| 10 | Practice of Test Paper and Model papers | <ul style="list-style-type: none"> ➤ Old question papers practice ➤ Specimen Paper Practice ➤ Mock Question paper ➤ Practice for practical examination. |

CLASS 12 ECONOMICS
2026-2027

| BOOK:- Text Book of Economics by Frank Publication | | |
|---|------------------------------|---|
| Months | Chapter No | Chapter Name |
| March | Chapter -1 | Microeconomics and Macro economics:Introduction |
| | Chapter -2 | Demand and Law of Demand |
| April | Chapter – 3 | Theory of Consumer Behaviour: Marginal Utility and Indifference Curve Analysis |
| | Chapter - 4 | Elasticity of Demand |
| June | Chapter - 5 | Supply - Law of Supply And Price Elasticity of Supply |
| July | Chapter - 6 | Market Mechanism :Equilibrium Price and Quantity in a Competitive Market |
| | Chapter- 7 | Laws of Returns - Returns to a Factor and Returns to Scale |
| Quarterly Examination of Chapter 1 to Chapter 5 | | |
| August | Chapter – 8 | Cost and Revenue Analysis |
| | Chapter – 9 | Forms of Market |
| | Chapter – 10 | Producer's Equilibrium |
| September | Chapter - 11 | Determination of equilibrium Price and Output Under Perfect Competition . |
| | Chapter - 12 | Theory of Income and Employment |
| Half Yearly Examination Chapter 6 to Chapter 12 | | |
| October | Chapter - 13 | Money : Meaning and Functions |
| | Chapter – 14 | Banks :Commercial and Central Bank |
| | Chapter – 15 | Balance of Payments and Exchange Rate |
| | Chapter - 16 | Fiscal Policy |
| November | Chapter – 17 | Government Budget |
| | Chapter – 18 | National Income and Circular Flow of Income |
| | Chapter - 19 | National Income Aggregates |
| | Chapter - 20 | Methods of Measuring National Income |
| December | Revision | |
| January | ISC Model Examination | |
| February | ISC Board Examination | |

CLASS 12 ACCOUNTS
2026-2027

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| BOOK | NEW ISC ACCOUNTANCY By D K Goel and Rajesh Goel Avichal Publishing Company | |
| Months | Unit | Chapter Name |
| February to June | Chapter 1 | Accounting for Partnership Firms- Fundamentals |
| | Chapter 2 | Goodwill: Concept and Valuation |
| | Chapter 3 | Admission of a Partner |
| | Chapter 4 | Retirement of a Partner |
| QUARTERLY EXAMINATION (CHAPTERS- 1,2,3,4) | | |
| July- August | Chapter 4 | Death of a Partner |
| | Chapter 5 | Dissolution of a Partnership Firm |
| | Chapter 6 | Company Accounts – Issue of shares |
| | Chapter 7 | Company Accounts – Issue of Debentures |
| | Chapter 8 | Company Accounts – Redemption of Debentures |
| HALF YEARLY EXAMINATION (CHAPTERS- 4, 5, 6,7, 8) | | |
| September - November | Chapter 9 | Financial Statements of Companies |
| | Chapter 10 | Financial Statements Analysis |
| | Chapter 11 | Tools for Financial Analysis : Comparative Statements |
| | Chapter 12 | Common Size Statements |
| | Chapter 13 | Cash Flow Statements |
| | Chapter 14 | Ratio Analysis |
| December | | Revision |
| January | ISC Model Examination | |
| February | ISC Board Examination | |

**CLASS 12 COMMERCE
2026-2027**

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|--------------------------------|---|--|
| BOOK | ISC COMMERCE By Dr C B Gupta S Chand's | |
| Months | Unit | Chapter Name |
| February to June | Chapter 1 | Business Environment |
| | Chapter 2 | Capital – Fixed and Working |
| | Chapter 3 | Sources of Finance for a Joint Stock Company |
| | Chapter 4 | Banking – Latest Trends |
| QUARTERLY EXAMINATION | | |
| (CHAPTERS- 1,2,3,4) | | |
| July- August | Chapter 5 | Management – Meaning, Nature and Importance |
| | Chapter 6 | Principles of Management |
| | Chapter 7 | Functions of Management and Coordination |
| | Chapter 8 | Planning |
| | Chapter 9 | Organising |
| HALF YEARLY EXAMINATION | | |
| (CHAPTERS- 4, 5, 6,7, 8,9) | | |
| September- November | Chapter 10 | Staffing |
| | Chapter 11 | Directing |
| | Chapter 12 | Controlling |
| | Chapter 13 | Marketing – Concept and Functions |
| | Chapter 14 | Marketing Mix |
| | Chapter 15 | Consumer Protection |
| December | Revision | |
| January | ISC Model Examination | |
| February | ISC Board Examination | |