

St. Francis' Convent Inter College

Jhansi

Class XII

English Literature

Term I

The Tempest (Play):

- Act IV

Poem:

- The Darkling Thrush
- Crossing The Bar

Stories:

- The Story of an Hour
- A Gorilla in the Guest Room

Term II

The Tempest (Play):

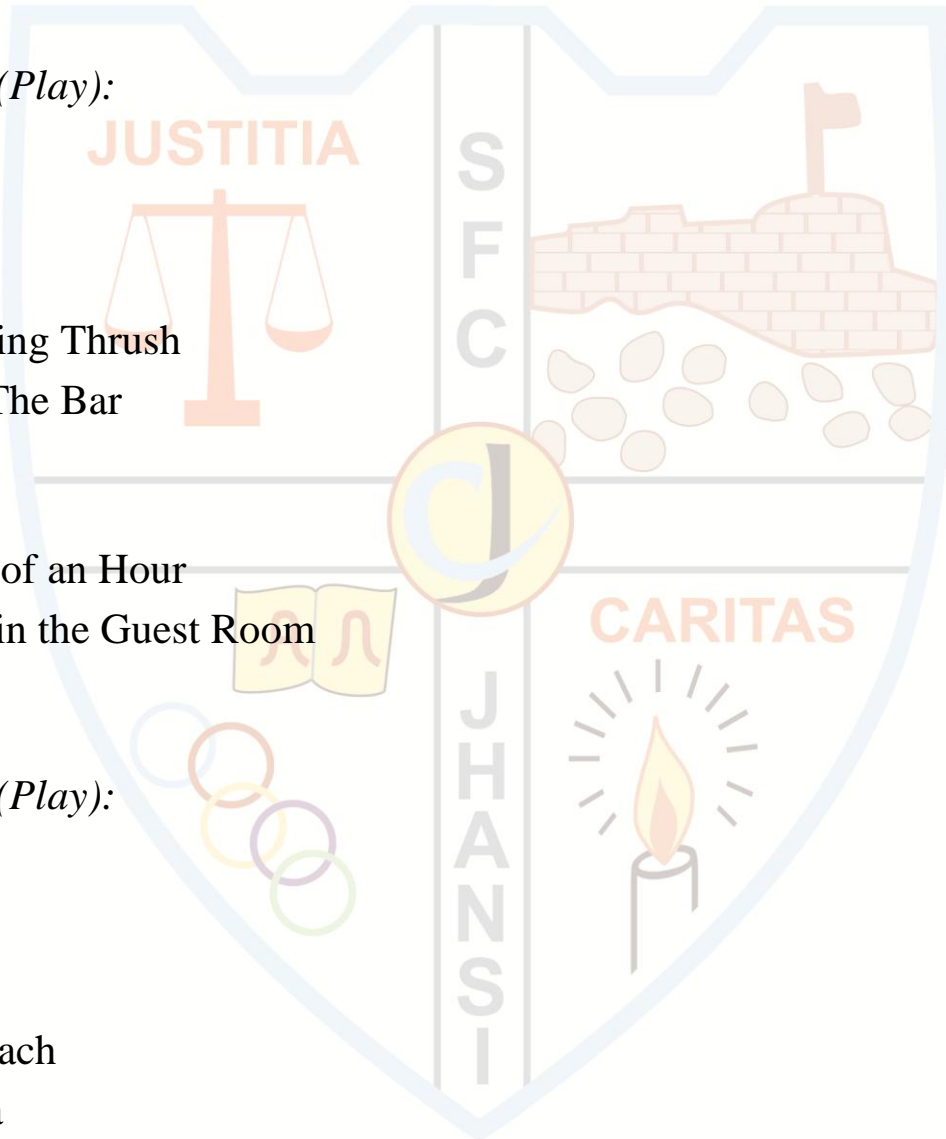
- Act V

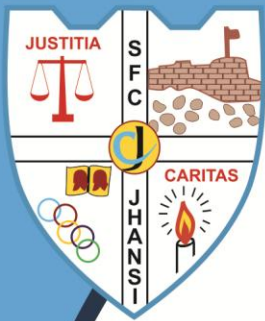
Poem:

- Dovert Beach
- Desiderata

Stories:

- The Singing Lesson
- Sound Machine





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Biology

Term I

- Sexual reproduction in flowering plant
- Human reproduction
- Reproductive health
- Biodiversity and its Conservation
- Organism and population
- Human health and diseases
- Microbes in human welfare
- Ecosystem

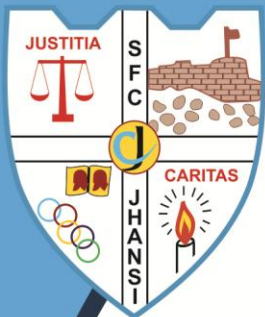
Term II

- Principles of inheritance and variation
- Molecular basis of inheritance
- Biotechnology principles and process
- Biotechnology and its application
- Evolution
- Strategies for enhancement of Food
- Environmental Issues

Physics

Term I

- Lesson-1: Electric Charges and Fields
- Lesson-2: Gauss' Theorem
- Lesson-3: Electric Potential
- Lesson-4: Capacitors and Dielectrics



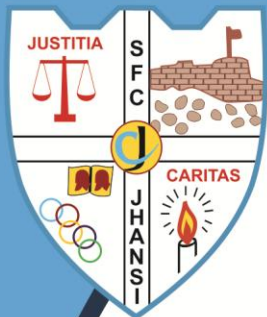
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- Lesson-5: Electrical Resistance and Ohm's Law
- Lesson-6: DC Circuits and Measurements
- Lesson-7: Moving charges and Magnetism
- Lesson-8: Torque on a current loop: Moving coil Galvanometer
- Lesson-9: Magnetic Field and Earth's Magnetism
- Lesson-10: Magnetic classification of Substances
- Lesson-11: Electromagnetic Induction
- Lesson-12: Alternating Current
- Lesson-13: Electromagnetic Waves
- Lesson-14: Reflection of light: Spherical Mirrors
- Lesson-15: Refraction of light at a plane interface: Total Internal Reflection: Optical Fiber
- Lesson-16: Refraction of light at spherical Surfaces: Lenses
- Lesson-17: Refraction & Dispersion of light through a Prism
- Lesson-18: Optical Instruments

Term II

- Lesson-19: Wave Nature of light: Huygen's Principle
- Lesson-20: Interference of Light
- Lesson-21: Diffraction of light
- Lesson-22: Polarization of Light
- Lesson-23: Photoelectric Effect
- Lesson-24: Matter Waves
- Lesson-26: Atom, Origin in Spectra: Bohr's Theory of Hydrogen Atom
- Lesson-27: Nuclear Structure
- Lesson-28: Radioactivity
- Lesson-29: Mass Energy Equivalence: Nuclear Binding Energy
- Lesson-30: Nuclear Fission and Nuclear Fusion: Sources of Energy



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- Lesson-31: Semiconductor Electronics
- Lesson-32: Junction Diodes
- Lesson-33: Junction Transistors
- Lesson-34: Logic Gates
- Lesson-35: Communication System
- *First Term Chapters*

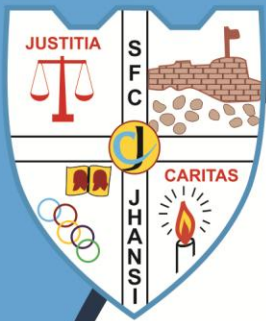
Chemistry

Term I

- Chapter-1: Solid State
- Chapter-2: Solutions
- Chapter-3: Electrochemistry
- Chapter-6: General Principles & Process of Isolation of Elements
- Chapter-7: P- Block Elements
- Chapter-10: Haloalkanes and Haloarenes
- Chapter-11: Alcohol, Phenol & Ethers
- Chapter-16: Chemistry in Everyday Life

Term II

- Chapter-4: Chemical Kinetics
- Chapter-5: Surface Chemistry
- Chapter-8: d and f Block Elements
- Chapter-9: Coordination Compounds
- Chapter-12: Aldehydes, Ketones & Carboxylic Acid
- Chapter-13: Organic Compounds containing Nitrogen
- Chapter-14: Biomolecules
- Chapter-15: Polymers



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Mathematics

Term I

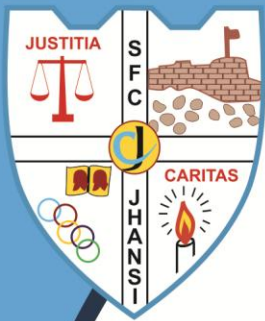
- Chapter-1: Relation
- Chapter-2: Functions
- Chapter-3: Binary Operations
- Chapter-4: Inverse Trigonometric Functions
- Chapter-5: Determinants
- Chapter-6: Matrices
- Chapter-7: Continuity & Differentiability of Functions
- Chapter-8: Differentiation
- Chapter-9: Indeterminate Forms of Limits
- Chapter-10: Mean Value Theorems
- Chapter-11: Application of Derivatives
- Chapter-12: Maxima and Minima
- Chapter-13: Indefinite Integral-I (Standard Form)

Term II

- Chapter-14: Indefinite Integral-2 (Method of Integration)
- Chapter-15: Indefinite Integral-3 (Special Integrals)
- Chapter-16: Definite Integrals
- Chapter-17: Differential Equations
- Chapter-18: Probability
- Chapter-19: Baye's Theorem
- Chapter-20: Theoretical Probability Distribution

Section B (For Science Students)

- Chapter-21: Vectors
- Chapter-22: Vectors (Continued)



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- Chapter-23: Three Dimensional Geometry
- Chapter-24: The Plane
- Chapter-25: Application of Integrals (Areas of a Curve)

Section C (For Commerce Students)

- Chapter-26: Application of Calculus in Commerce and Economics
- Chapter-27: Linear Regression
- Chapter-28: Linear Programming

Physical Education

Term I

Part-A (Section-A)

- Chapter-1: Sociological Aspects of Physical Education
- Chapter-2: Training Methods
- Chapter-3: Career Aspects in Physical Education
- Chapter-4: Competitions and Tournaments

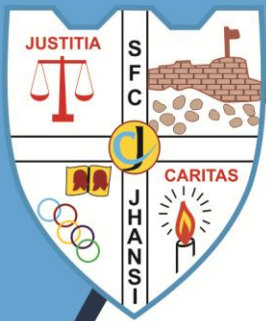
Part-B (Section-B)[Games]

- Cricket
- Football
- Hockey
- Basketball

Term II

Part-A (Section-A)

Including Term I Syllabus



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- Chapter-5: Health Education and Health Problems
- Chapter-6: Sports Injuries and First Aid

Part-B (Section-B)[Games]

Including Term I Syllabus

- Volleyball
- Athletics
- Badminton

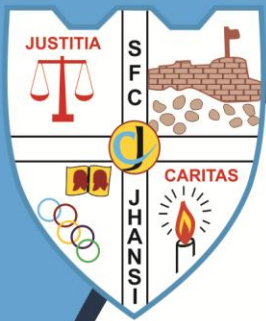
Economics

Term I

- Money
- Banks
- Balance of Payments and Exchange Rate
- Fiscal Policy
- Government Budget
- Forms of Market
- Demand and Law of Demand
- Elasticity of Demand
- Supply
- Theory of Consumer Behaviour

Term II

- Market Mechanism
- Law of Returns: Returns to a Factor
- Cost and Revenue Analysis
- Theory of Income and Employment



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- Producers Equilibrium
- Determination of Equilibrium Price and Output under Perfect Competition
- National Income and Circular Flow
- National Income Aggregates
- Methods of Measuring National Income

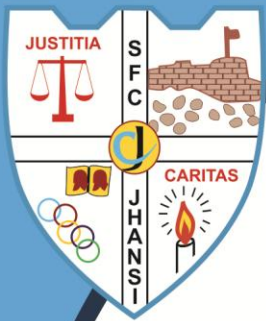
Commerce

Term I

- Business Environment
- Banking-Latest Trends
- Management-Measuring, Nature and Importance
- Principles of Management
- Functions of Management and Co-ordination
- Planning
- Organizing

Term II

- Capital - Fixed and Working
- Sources of Finance for a Joint Stock Company
- Staffing
- Directing
- Controlling
- Marketing – Concept and Functions
- Marketing Mix



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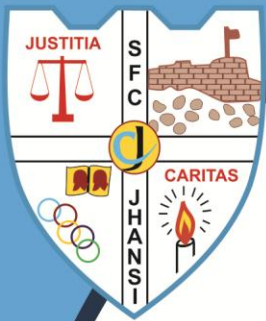
Accounts

Term I

- Ratio Analysis
- Common size statements
- Comparative statements
- Cash flow statements
- Partnership Fundamental
- Partnership Goodwill
- Admission of Partner
- Retirement/Death of Partner

Term II

- Ratio Analysis
- Common size statements
- Comparative statements
- Cash flow statements
- Partnership Fundamental
- Partnership Goodwill
- Admission of Partner
- Retirement / Death of Partner
- Dissolution of Partnership Firm
- Company Accounts - Issue of Share and Debenture
- Redemption of Debenture
- Financial Statements of Companies



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Computer

Term I

- Boolean Algebra
- Objects and Classes
- Java Revision Tour
- Primitive Values, Type Casting and Expressions
- Statements, Control Structure and scope
- Functions /Methods
- Compiling and Running Java Programs
- Java Classes: An OOP Perspective

Term II

- Computer Hardware
- Arrays and Strings
- Recursion
- Concept Of Inheritance
- Simple Data Structures
- Revision of Boolean Algebra
- Revision of Functions /Methods