

St. Francis' Convent Inter College

Jhansi

Class XII

English Literature

Term I

The Tempest (Play):

- Act IV

Poem:

- The Darkling Thrush
- The Birches
- Crossing The Bar

Stories:

- To Build a Fire
- The Story of an Hour
- The Singing Lesson

Term II

The Tempest (Play):

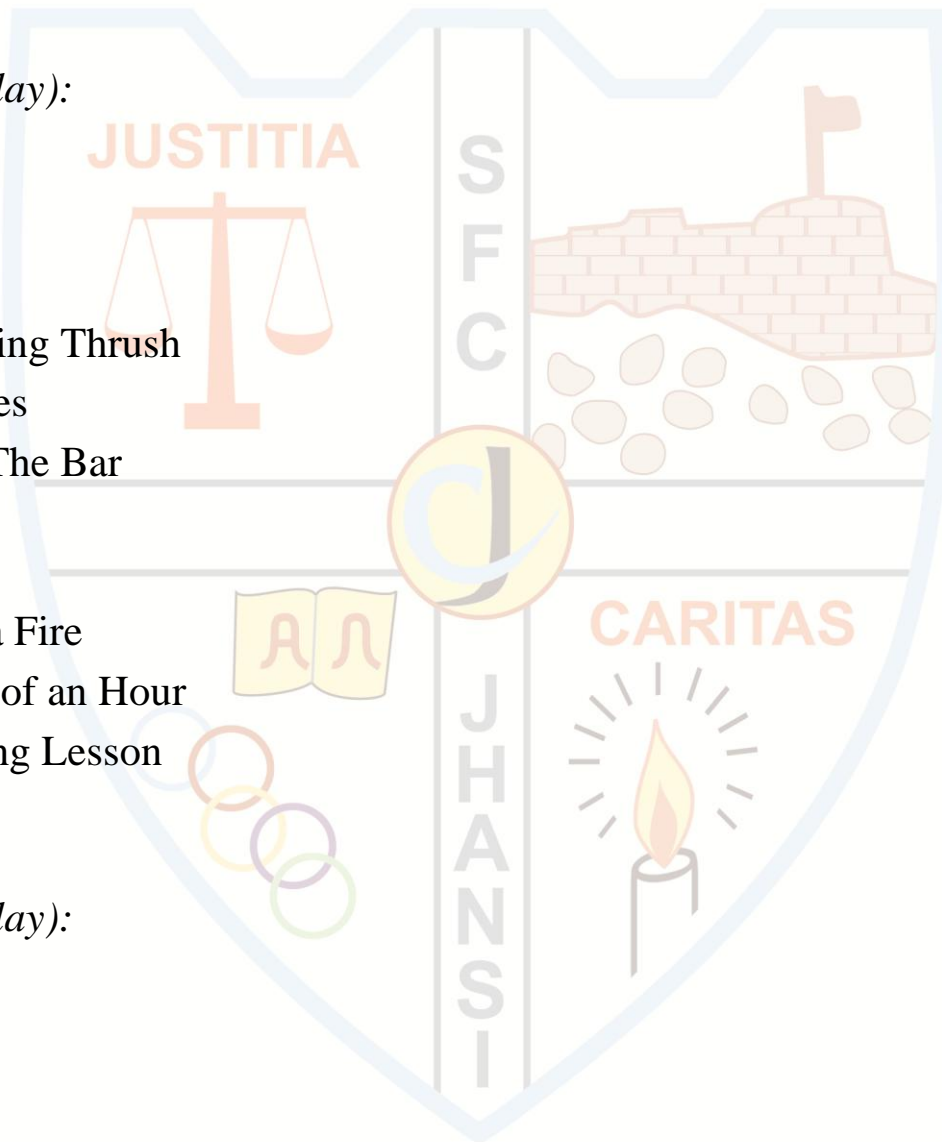
- Act V

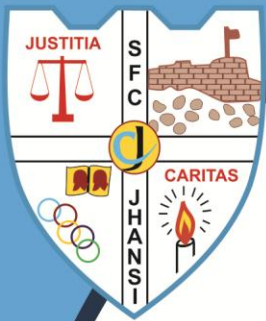
Poem:

- Dovert Beach
- We are the Music Maker

Stories:

- Sound Machine





St. Francis' Convent Inter College

Jhansi

- B-Wordsworth

Biology

Term I

Unit 1: Reproduction

- Reproduction in Organism
- Sexual reproduction in flowering plant
- Human reproduction
- Reproductive health

Unit 3: Biology and Human Welfare

- Human health and diseases
- Strategies for enhancement in food production
- Microbes in human welfare

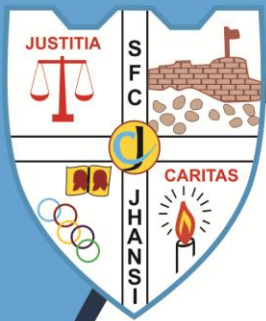
Unit 5: Ecology and Environment

- Organism and population
- Ecosystem
- Biodiversity and its Conservation
- Environmental issues

Term II

Unit 2: Genetics and Evolution

- Principles of inheritance and variation
- Molecular basis of inheritance
- Evolution



St. Francis' Convent Inter College

Jhansi

Unit 4: Biotechnology and its Principles and Application

- Biotechnology principles and process
- Biotechnology and its application

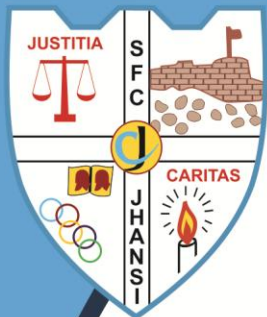
Physics

Term I

- Lesson-1: Electric Charges and Fields
- Lesson-2: Gauss' Theorem
- Lesson-3: Electric Potential and Potential Energy
- Lesson-4: Capacitors and Dielectrics
- 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: Spherical Mirrors
- Lesson-15: Refraction of light at a plane interface: Total Internal Reflection: Optical Fibre
- Lesson-16: Refraction of light at spherical Surfaces: Lenses
- Lesson-17: Refraction & Dispersion of light through a Prism

Term II

- Lesson-18: Optical Instruments



St. Francis' Convent Inter College

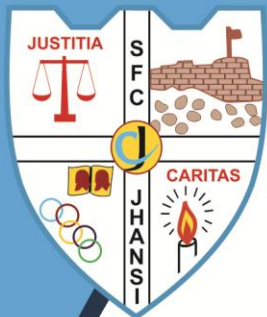
Jhansi

- 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-25: X-rays
- 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
- 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



St. Francis' Convent Inter College

Jhansi

- Chapter-12: Aldehydes, Ketones & Carboxylic Acid

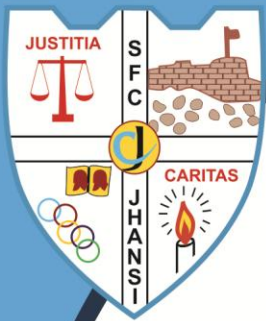
Term II

- Chapter-4: Chemical Kinetics
- Chapter-5: Surface Chemistry
- Chapter-8: d and f Block Elements
- Chapter-9: Coordination Compounds
- Chapter-13: Organic Compounds containing Nitrogen
- Chapter-14: Biomolecules
- Chapter-15: Polymers
- Chapter-16: Chemistry in Everyday Life

Mathematics

Term I

- Relation
- Functions
- Binary Operations
- Inverse Trigonometric Functions
- Determinants
- Matrices
- Continuity & Differentiability of Functions
- Differentiation
- Indeterminate Forms of Limits
- Mean Value Theorems
- Application of Derivatives
- Maxima and Minima
- Indefinite Integral-I (Standard Form)



St. Francis' Convent Inter College

Jhansi

Term II

- Indefinite Integral-2 (Method of Integration)
- Indefinite Integral-3 (Special Integrals)
- Definite Integrals
- Differential Equations
- Probability
- Baye's Theorem
- Theoretical Probability Distribution

Section B

- Vectors
- Vectors (Continued)
- Three Dimensional Geometry
- The Plane
- Application of Integrals (Areas of a Curve)

Section C

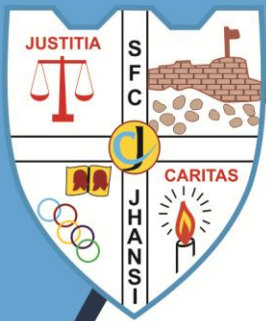
- Application of Calculus in Commerce and Economics
- Linear Regression
- Linear Programming

Physical Education

Term I

Part-A (Section-A)

- Chapter-1: Sociological Aspects of Physical Education
- Chapter-2: Training Methods



St. Francis' Convent Inter College

Jhansi

- Chapter-3: Career Aspects in Physical Education

Part-B (Section-B)

- Chapter-1: Athletics
- Chapter-2: Badminton
- Chapter-3: Basketball
- Chapter-4: Cricket

Term II

Part-A (Section-A)

Including Term I Syllabus

- Chapter-4: Competition and Tournaments
- Chapter-5: Health Education and Health Problems

Part-B (Section-B)

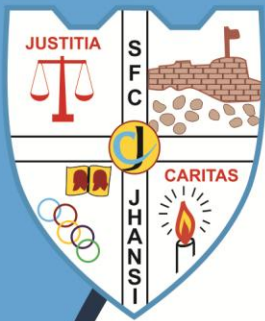
Including Term I Syllabus

- Chapter-5: Football
- Chapter-6: Hockey
- Chapter-7: Volleyball

Economics

Term I

- Lesson-2: Demand
- Lesson-3: Theory of Consumer Behaviour
- Lesson-4: Elasticity of Demand
- Lesson-5: Supply



St. Francis' Convent Inter College

Jhansi

- Lesson-6: Market Mechanism
- Lesson-7: Returns to a Factor
- Lesson-8: Cost and Revenue Analysis
- Lesson-9: Forms of Market
- Lesson-10: Producer's Equilibrium
- Lesson-11: Determination of Equilibrium Price

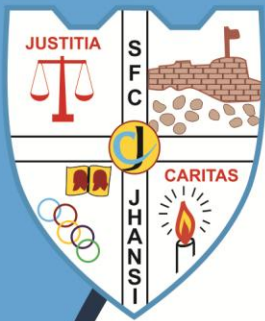
Term II

- Lesson-12: Theory of Income and Employment
- Lesson-13: Money
- Lesson-14: Banks
- Lesson-15: Balance of Payments and Exchange Rate
- Lesson-16: Fiscal Policy
- Lesson-17: Government Budget
- Lesson-18: Circular Flow
- Lesson-19: National Income Aggregates
- Lesson-20: 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



St. Francis' Convent Inter College

Jhansi

Term II

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

Accounts

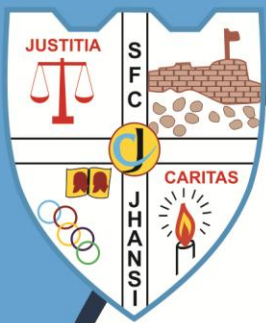
Term I

- Chapter-6: Issue of Share
- Chapter-7: Issue of Debenture
- Chapter-8: Redemption of Debenture
- Chapter-9: Financial statics of companies
- Chapter-10: Comparative statements
- Chapter-11: Common size statements
- Chapter-12: Cash flow statements
- Chapter-13: Ratio Analysis

Computer

Term I

- Boolean Algebra
- Computer Hardware
- Objects and Classes
- Java Revision Tour



St. Francis' Convent Inter College

Jhansi

- Primitive Values, Type Casting and Expressions
- Statements, Control Structure and scope
- Functions /Methods
- Arrays and Strings

Term II

- Compiling and Running Java Programs
- Java Classes: An OOps Perspective
- Recursion
- Concept Of Inheritance
- Simple Data Structures
- Recursive Data Structure
- Computational Complexity

