

Term-2 Syllabus

2020-2021

CLASS XII-A, B

SCIENCE

NOTE:

Pre-Board comprises Term 1 and Term 2 Syllabus.

ENGLISH CORE

| Month | Name of the topic | Learning Outcome |
|-----------------|---|---|
| October | Flamingo: Poetry 6.Aunt Jennifer's Tigers Vistas: 7.Evans Tries An O-Level | Ascertaining the kind of issues raised through someone's life and struggle. Identifying women as marginalized community, the discrimination they face and their struggle against it. |
| November | Revision | |

PHYSICS

| MONTH | NAME OF THE TOPIC | ACTIVITY | LEARNING OUTCOMES |
|-----------------|---|--|--|
| OCTOBER | Ch-10: Wave Optics Ch-11 Dual Nature of Radiation and Matter CH-12: Atoms | 11. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias. 12.To draw the characteristic curve of a zener diode and to determine its reverse break down voltage. | able to describe, light as a wave and a particle. able to analyse atomic structure. |
| NOVEMBER | Ch-13: Nuclei Ch-14: Electronic Devices | | able to understand basic working of common semiconductor devices used in electronics. able to explain the operation of a PN diode and its use in AC rectification |

CHEMISTRY

| Month | Topic | Activity | Learning Outcome |
|----------|---|--|--|
| October | <u>Unit 11</u> - Alcohols, phenols and ethers. <u>Unit 12</u> - Aldehydes, ketones and carboxylic acids | <ul style="list-style-type: none">• Functional group detection.• volumetric analysis (Redox titration). | <u>Unit 11</u> --Knowledge of IUPAC nomenclature ,physical and chemical properties ,reaction mechanisms ,applications of Alcohols ,phenols and ethers <u>Unit 12</u> - Knowledge of IUPAC nomenclature, physical and chemical properties ,reaction mechanisms, applications of carbonyl compounds.. |
| November | <u>Unit 13</u> - Amines <u>Unit 14</u> - Biomolecules <u>Unit 15</u> - Polymers <u>(Entire Chapter is deleted.)</u> <u>Unit 16</u> - Chemistry in everyday life(<u>Entire Chapter is deleted.)</u> | <ul style="list-style-type: none">• Qualitative (salt) analysis (revision) | <u>Unit 13</u> -Knowledge and understanding of basic nature of amines and their application as reaction intermediates. <u>Unit 14</u> -Knowledge of various classes of Biomolecules and their specific roles in biosystem |

BIOLOGY

| Month | Topic | Activity | Learning Outcome |
|--------------|-------------------------------------|---|---|
| October | Ch .13.Organisms and Population | To study texture , moisture ,pH, water holding capacity of soil samples and water sample from different sites.. | Students will know the concept of Species, population, community, Ecosystem, Biome and biosphere. |
| November | Ch 15.Biodiversity and conservation | Morphological Adaptations of Plants and animals present in Xerophytic and Aquatic conditions | Students will show their sensitivity towards Wild life, and its conservation |

MATHEMATICS

| Month | Chapters | Learning outcome |
|--------------|--|---|
| October | 10-Vector Algebra 11- 3D geometry and 12- Linear Programming | Students will be able to understand the 3 dimensional geometry with the help of vectors |
| November | 13- Probability. and 01- Relations and functions | Students will be able to find the probability. |

OPTIONAL

A. PSYCHOLOGY

| Month | Topic | Activity | • Learning Outcome |
|--------------|---|---|---|
| October | Ch – 7. Social Influence (continued) <u>Test:</u> (SAS and Practical File Work) | Activity 2 on Social Influence | • Student will learn to conduct and interpret various psychometric tests to perfection. |
| November | Ch – 6. Attitude and Social Cognition | Discussion / brainstorming session on Prejudice | • Students will learn how their attitudes are formed and changed |

B. INFORMATICS PRACTICES

| Month | Topic | Activity | Learning Outcome |
|-----------------|---|---------------------|--|
| October | Unit 1: Data Handling using Pandas -I Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and Data Frames. Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing. | Project Development | Create Series, Data frames and apply various operations. |
| November | Data Frames: creation - from dictionary of Series, list of dictionaries, Text/CSV files; display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing; Importing/Exporting Data between CSV files and Data Frames. Data Visualization Purpose of plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph, histogram Customizing plots: adding label, title, and legend in plots. | Project Development | Visualize data using relevant graphs. |

C. PHYSICAL EDUCATION

| Month | Topic | Activity | Learning Outcome |
|----------|-----------------------------|---|---|
| October | Unit IX Psychology & Sports | <ul style="list-style-type: none"> • Skill of Hockey, Kho Kho, | <ul style="list-style-type: none"> • Types of movement • Newton's Law of motion |
| November | Unit X Training in Sports | <ul style="list-style-type: none"> • Skill of Volleyball | <ul style="list-style-type: none"> • Types of methods of improving strength |

D. PAINTING

Fine Arts-Painting (Theory)

| Month | Name of the Topic | Learning Outcome |
|----------|--|---|
| October | <u>The Bengal School of Painting</u> (1) Introduction to the Bengal School of Painting (2) Study of the Painting of Bengal School <u>The Modern Trends in Indian Art</u> (1) Paintings of the Contemporary (Modern) Indian Artists (2) Graphic prints of the Contemporary (Modern) Indian Artists (3) Sculptures of the Contemporary (Modern) Indian Artists | <ul style="list-style-type: none"> • To familiarize students with various styles and modes of art expressions from different parts of India. This would enrich their vision and enable them to appreciate and develop an aesthetic sensibility to enjoy the beauty of nature and life. • The students will also have an opportunity to observe and study the evolution of its mutations and synthesis with other style and the rise of an altogether new style. The students will be made aware of art as a human experience. |
| November | Revision <u>The Bengal School of Painting</u> <u>The Modern Trends in Indian Art</u> | |

Subject: FINE ARTS-PAINTING (Practical) Class 12th

| Month | Name of the Topic |
|----------|-------------------------|
| October | Nature and Object Study |
| November | Painting-Composition |

E. HOME SCIENCE

| Month | Topic | Activity | Learning Outcome |
|----------|--|------------------------------------|---|
| October | Unit II: Nutrition, Food Science and Technology Chapter 6: Food Quality and Safety Unit V Resource Management Chapter 17: Hospitality Management | Test of Food Adulteration. | <ul style="list-style-type: none">• Students will know about national and international food standards and their role in ensuring food quality and safety |
| November | Unit V: Resource Management Chapter 18: Ergonomics and Designing of Interior and Exterior Spaces Chapter 19: Event Management Unit VI Communication and Extension | Prepare a case study of PR agency. | <ul style="list-style-type: none">• Students will be able to explain the concept of interior and exterior space design• Students will understand the importance of communication for social change and development |

Term-2 Syllabus

2020-2021

Syllabus

CLASS XII-C,D

COMMERCE

NOTE:

Pre-Board comprises Term 1 and Term 2 Syllabus.

ENGLISH CORE

| Month | Name of the topic | Learning Outcome |
|-----------------|---|---|
| October | Flamingo: Poetry 6.Aunt Jennifer's Tigers Vistas: 7.Evans Tries An O-Level | Ascertaining the kind of issues raised through someone's life and struggle. Identifying women as marginalized community, the discrimination they face and their struggle against it. |
| November | Revision | |

ECONOMICS

Section A: Introductory Macroeconomics (Unit-3)

Section B: Indian Economic Development (Units 7&8)

NOTE:

Pre-Board comprises Term 1 and Term 2 Syllabus.

| Month | Unit | Name of the Topic | Activity | Learning Points |
|--------------|-------------|--|--------------------------|---|
| October | 7 | Current Challenges facing Indian Economy-(Section-B) Chapter 10- Employment and Unemployment Chapter 11- Infrastructure Chapter 12-Environment& Sustainable Development | MCQs Project Work | Students will understand concepts of topics- Employment Infrastructure Environment |
| | 8 | Chapter 13: Development Experience of India,Pakistanand China-A Comparative Study (Section-B) | MCQs | Comparative study of India,Pakistan&China |
| November | 3 | Determination of Income & Employment (Section A) Revision | Objective type questions | Key terms of A.D & A.S |

ACCOUNTANCY

| MONTH | TOPIC | LEARNING OBJECTIVES |
|--------------|---|--|
| OCTOBER | <p>Accounting for Debentures:</p> <p>Issue of debentures with terms of redemption.</p> <p>Interest on debentures.</p> <p>Writing off discount /loss on issue of debentures.</p> <p>Financial Statement Analysis: Financial statements of a company: Statement of Profit and Loss and Balance Sheet in prescribed form with major headings and sub headings (as per Schedule III to the Companies Act,2013).</p> <p>Financial Statement Analysis: Objectives, importance and limitations. Tools for Financial Statement Analysis:-Cash flow analysis, Ratio analysis Comparative Statements, Common Size Statements</p> <p>Accounting Ratios: Meaning, Objectives, Classification and computation. Liquidity Ratios, Solvency Ratios Activity Ratios, Profitability Ratios</p> | <p>After going through this Unit, the students will be able to:</p> <p>Explain the accounting treatment of different categories of transactions related to issue of debentures.</p> <p>Develop the skill of calculating interest on debentures and its accounting treatment.</p> <p>Develop the understanding and skill of writing of discount / loss on issue of debentures.</p> <p>Develop the understanding of major headings and sub-headings (as per Schedule III to the Companies Act, 2013) of balance sheet as per the prescribed norms/formats.</p> <p>State the meaning, objectives and limitations of financial statement analysis</p> <p>Develop the understanding and skill of preparation of Comparative and Common size financial statements.</p> <p>Develop the skill of computation of various accounting ratios.</p> |

| | | |
|----------|---|---|
| NOVEMBER | Cash Flow Statement: Meaning, Objectives and preparation (as per AS (Revised) Indirect Method only) Project Work Revision For Preboard | State the meaning and objectives of Cash Flow Develop the understanding of preparation of Cash Flow Statement using indirect method as per AS 3 with given adjustment. |
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BUSINESS STUDIES

| Month | Name of the Topic | Activity | Learning Outcome |
|--------------|---|---|---|
| October | Ch-12 Consumer Protection Ch-9. Financial Management Ch-10 Financial Market | <ul style="list-style-type: none">• Project Work | <ul style="list-style-type: none">• The Rights, Responsibilities & Reliefs available to a Consumer as per COPRA• The Concept of Financial Management. Factors affecting Fixed capital Requirement & Working capital Requirement.• An Elaborative study of Primary & Secondary Market; Capital & Money Market & Its instruments and all related concepts thereto |
| November | Revision of the complete syllabus | <ul style="list-style-type: none">• Assessment based on MCQ• Oral Assessment | <ul style="list-style-type: none">• . NCERT & Board Paper based questions• Case study & HOTS |

OPTIONAL

A. PSYCHOLOGY

| Month | Topic | Activity | Learning Outcome |
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| October | Ch – 7. Social Influence (continued) <u>Test:</u> (SAS and Practical File Work) | Activity 2 on Social Influence | <ul style="list-style-type: none">• Student will learn to conduct and interpret various psychometric tests to perfection. |
| November | Ch – 6. Attitude and Social Cognition | Discussion / brainstorming session on Prejudice | <ul style="list-style-type: none">• Students will learn how their attitudes are formed and changed |

B. INFORMATICS PRACTICES

| Month | Topic | Activity | Learning Outcome |
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| October | Unit 1: Data Handling using Pandas -I Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and Data Frames. Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing. | Project Development | Create Series, Data frames and apply various operations. |
| November | Data Frames: creation - from dictionary of Series, list of dictionaries, Text/CSV files; display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing; Importing/Exporting Data between CSV files and Data Frames. Data Visualization Purpose of plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph, histogram Customizing plots: adding label, title, and legend in plots. | Project Development | Visualize data using relevant graphs. |

C. PHYSICAL EDUCATION

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| October | Unit IX Psychology & Sports | • Skill of Hockey, Kho Kho, | • Types of movement • Newton's Law of motion |
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D. PAINTING

Fine Arts-Painting (Theory)

| Month | Name of the Topic | Learning Outcome |
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Subject: FINE ARTS-PAINTING (Practical) Class 12th

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| Month | Name of the Topic |
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E. HOME SCIENCE

| Month | Topic | Activity | Learning Outcome |
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| November | Unit V: Resource Management Chapter 18: Ergonomics and Designing of Interior and Exterior Spaces Chapter 19: Event Management Unit VI Communication and Extension | Prepare a case study of PR agency. | <ul style="list-style-type: none">• Students will be able to explain the concept of interior and exterior space design• Students will understand the importance of communication for social change and development |

F. MATHEMATICS

| Month | Chapters | Learning outcome |
|--------------|--|---|
| October | 10-Vector Algebra 11- 3D geometry and 12- Linear Programming | Students will be able to understand the 3 dimensional geometry with the help of vectors |
| November | 13- Probability. and 01- Relations and functions | Students will be able to find the probability. |

Term-2 Syllabus

2020-2021

Syllabus

CLASS XII-E

HUMANITIES

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HISTORY

| MONTH | CHAPTERS | LEARNING OUTCOME |
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| OCTOBER | CH- 15 FRAMING THE INDIAN CONSTITUTION | Familiarize students with the history of the early years of independence. |
| NOVEMBER | CH-15 TO BE CONTINUED AND REVISION | |

POLITICAL SCIENCE

| Month | Chapter Name | Learning Outcomes |
|----------|--|---|
| October | -Parties and party system in India -Democratic Resurgence | - Will gain knowledge about Initiation and increase of political parties in India and their importance -will understand the importance of Democracy and also steps taken towards it. |
| November | Recent Developments in Indian Politics | - will gather information and gain knowledge on political tactics In India |

OPTIONAL

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