



Shri Shivaji Education Society's,
MAHASATEE ARTS, COMMERCE & SCIENCE
COLLEGE,
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Course outcomes (COS)

B.Sc Programme

Department of Chemistry

Course outcomes (COS):

At the end of the course student should be able to:

1. Bohr's theory and its limitations, dual behavior of matter and radiation, deBroglie's relation, Heisenberg Uncertainty principle.
2. To learn Rules for filling electrons in various orbitals, Electronic configurations of the atoms.
3. Stability of half-filled and completely filled orbital's, concept of exchange energy. Relative energies of atomic orbitals, Anomalous electronic configurations.
4. Statement of Born-Landé equation for calculation of lattice energy, Born-Haber cycle and its applications, polarizing power and polarizability. Fajan's rules, ionic character in covalent compounds, bond moment, dipole moment and percentage ionic character.
5. Nucleophiles and electrophiles. Reactive Intermediates: Carbocations, Carbanions and free radicals.
6. Molecular representations and inter conversion of Wedge Formula, Newman, Sawhorse

and Fischer representations.

7. Clear the concept learning mechanism of Free radical mechanism of halogenations of alkanes.
8. Students will have to learn and gain hands on experience of standard solution preparation in different concentration units and learn volumetric estimation through acid-base, redox reactions and Complexometric titrations
9. Critical phenomena, critical constants and their calculation from vander Waals equation (numerical problems).
10. Andrews isotherms of CO₂. Maxwell Boltzmann distribution laws of molecular velocities, molecular energies and their importance.
11. Effect of temperature on surface tension and coefficient of viscosity of a liquid (qualitative treatment only).
12. Refractive index and its determination by Abbe's refractometer.
13. Theories of Reaction Rates: Collision theory and Activated Complex theory of bimolecular reactions. Comparison of the two theories.
14. To enable the students to understand the three dimensional crystal structures of solids, predict the number of particles in unit cells. Understand Defects in crystals.
15. To understand the Carboxylic acids and their derivatives. Relative Strengths of carboxylic acids.
16. Understanding the alloy preparation by phase diagram studies.
17. To enable the students to understand the scope of Ultraviolet and Infrared Spectroscopy.
18. Students learn to demonstrate the determination pH of biological fluids using pH meter.
19. Students will learn to verify Beer-Lambert's law and determine the concentration of

unknown solution of copper sulphate

20. Determination of pH of solution by hydrogen electrode, quinhydrone and glass electrode

21. Students will be able to explore new areas of research in both chemistry and allied fields of science and technology.

22. Students will be able to explain why chemistry is an integral activity for addressing social, economic, and environmental problems.

23. Students will be able to function as a member of an interdisciplinary problem solving team.

24. Stoichiometric calculations of chemical equations to determine the quantities of reactants and products, limiting reagent problems, and enthalpies of reactions.

25. To build confidence in the candidate to be able to work on his own in industry and institution of higher education.

26. To develop an independent and responsible work ethics.

Department of Zoology

Course outcomes (COS):

Zoology At the end of the course student should be able to:

1. Aware students about knowledge and skill in the fundamentals and systematic of animal kingdom.

2. Gain knowledge of anatomical structure and various metabolic functions of organisms.

3. Understand various physiological processes at molecular level of animals from different phyla.

4. Apply the knowledge and understanding of Zoology to one's own and social life.

5. Gain knowledge of communicable and non-communicable diseases to improve personal and public health.

Department of Botany

Course outcomes (COS):

At the end of the course student should be able to:

1. Develop understanding about the diversity, identification, classification and economic importance of lower plants.
2. Understand the role of plant cytoskeleton and accessory proteins in major cellular processes of plants.
3. Able to identify various life forms of plants, design and execute experiments related to basic studies on evolution, ecology, developmental biology, physiology.
4. Plant interactions with microbes and insects, morphology, anatomy, reproduction, genetics, microbiology, molecular biology, recombinant DNA technology, proteomics and transgenic technology.
5. Capable to perform short research projects using various tools and techniques in plant sciences and develop scientific temperament and research attitude.
7. Learn about absorption translocation and transpiration
8. knowledge about plant breeding methods to produce new superior varieties
9. Demonstrate skills in laboratory, field, and glasshouse work related to mycology and plant pathology.
10. Develop a critical understanding of morphology, anatomy, and reproduction of Algae, Bryophytes, Pteridophytes, and Gymnosperms.

B.Com Programme

COURSE OUTCOMES:

- **Financial Accounting:** It provides higher knowledge exposure in the application of financial accounting principles and methods to various forms of business organizations.
- **Principles of Management:** It acquaints students with the concepts, principles and practice of the management of business organization, professional management.
- **Business Environment:** To acquaint students with basic framework within which business operates and develop skills of identifying and analyze of such environmental framework. The conceptual, analytical and interpretational skills are specifically included in the curriculum.
- **Managerial Economics:** It familiarizes students with the basic concepts of micro economics and their applications in business organizations.
- **Indian Constitution:** It provides the basic knowledge of the development and the principles enshrined in the Constitution of India.
- **Business Communication Skill:** It familiarises the students with the concept of business communication and to develop basic business communication skills through demonstration.
- **Entrepreneurship and Small Enterprise Management:** To imbibe basic entrepreneurial qualities of successful entrepreneur and would enable them to learn the art of promoting and running enterprises.
- **Principles of Marketing:** To enable basic marketing strategies and familiarise the fundamental concept and principles of marketing of goods and services.
- **Business Economics:** The course enables to aim to equip the students with understanding of economics concepts and their application in function of business entity.

- **Fundamentals of Computers:** Students are equipped with the basic concepts of computer and their applications in business organizations, students will familiar with the basic principles of computer including hardware, software and operating systems.
- **Secretarial Practice:** To familiarise the students with the fundamental concepts and functions to be performed by corporate secretaries.
- **Human Resource Management:** The course is designed to develop a knowledge base of basic concepts and skills required in the management of human resource employed in business organizations.
- **Indian Financial System:** To familiarise with the fundamental concepts and working of Indian financial system and its constituents.
- **Income Tax Law and Practice:** It develops an understanding of the basic concepts and principles of income tax law and develop necessary skills in computation of income tax under various heads.
- **Principles and Practice of Auditing:** To equip students with concepts, techniques and methods of auditing process employed in business organizations.
- **Cost Accounting:** It acquaints the student's with applications of cost accounting tools and methods in business decision-making process and control.
- **Business Laws:** It acquaints the students with the fundamentals of various business laws as applicable to business organizations in India.
- **Monetary Economics:** To familiarise the students with the principles of monetary economics and the influence of monetary policy govern by central banks.
- **International Economics:** To enable students to acquaint with the concept and theories of international economics and their influence on the working of business organizations.

- **Indian Economics:** To familiarise the students with the fundamental structure of Indian Economy and its various economic issues.
- **Industrial Economics:** To equip students with an understanding of the fundamental concepts and theories of Industrial Economics.

B.A Programme

Department of Economics

Course outcomes (COS):

At the end of the course student should be able to:

1. Understand the current problems of Indian Economy..
2. Able to understand the links between household behaviour and the economic models of demand.
3. It will help in developing comprehensible understanding of different forecasting models.
4. Modern theories of international trade. The trade barriers, international order in the trade
5. After studying the structure aspects of Indian Economy, students will be exposed to economic reforms in India and problems of Indian economy.
6. Distinguish between normative and optimistic economics.

Evaluate the macroeconomic policies for solving major problems like poverty and unemployment

8. Approximate and interpret the parameters of multiple regressions.
9. Explain the operation of a market system
10. Analyze the production and cost relationships of a business firm
11. Analyze the sector specific policies adopted for achieving the aspirational goals

12. The students would be able to use spread sheets in an elementary way to garner basic understanding of the available spread sheet software.

Department of History

Course outcomes (COS):

CO1 - It teaches the Literary and Archaeological Sources and the influence of Geographical factors.

CO2 -Concept and Downfall of Indus Valley Civilization and Vedic Civilization.

CO3 - It also deals with foreign invasions on Northern India.

CO4 - Understand the Administration, Trade and Commerce and Cultural contributions of Vijaynagara Empire

CO5- Itdeals alsowith the early resistance and revolts of Indians and domestic and foreign policies of British.

CO6- This paper also focuses on the cultural contribution major dynasties and the Sharana movement led by Shri Basaveshwar.

Department of Political science

Course outcomes (COS):

At the end of the course student should be able to:

1. Demonstrate critical thinking, including the ability to form an argument, detect fallacies, and martial evidence, about key issues of public policy and politics.
2. Be able to describe and explain political theory, political systems around the world, and politics in the international arena.

3. Be able to explain the resemblance and differences between various types of polities and how they affect their behaviour.
4. Critically measure the actions of actors in the political process and determine their motives.
5. Examining the Fundamental Rights and Duties of Indian citizens with a study of the significance and status of Directive Principles.
6. Evaluating the Electoral Process in India with focus on the Election Commission: Composition, Functions and Role.
7. Examining Indian Foreign Policy: Basic Principles, Evolution and Bilateral Relations.
8. The course is designed to reconcile Political Theory and practice through the ideas and practices related to democracy
9. Students also learn about democratic process and expose them to real expert in legislative work.
10. Students analyze various theories of comparative politics in developed countries.
11. Students will learn E-Governance, its types and benefits of E-Governance
12. This course imparts the Knowledge to students to understand world politics and challenges before India's foreign policy.
13. Students will understand Political Science, theoretically and will gain knowledge to explain and analyze politics at large

Department of English

Course outcomes (COS):

At the end of the course student should be able to:

1. Read a variety of texts critically and proficiently to demonstrate in writing or speech the

comprehension, analysis, and interpretation of those texts.

2. Analyze instances of the variety of literary forms closely in terms of style, figurative language and convention.
3. Will attain and enhance competence in the four modes of literacy: writing, speaking, reading and listening.
4. Would have honed their skills of remembering, understanding, applying, analysing evolution and creating literature.
5. Will have their speaking ability in English both in terms of fluency and comprehensibility.
6. Will able to read intensive information retrieval and interpretation required by university studies
7. This paper aims at introducing English poetry and prose to develop reading and comprehension skills.
8. The learner will have knowledge of objective English useful for Competitive examinations.
9. Students understand, speak and write about the writers and writings of the PostIndependence period in India.



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