

V.M.K.S.R.VASTRAD ARTS SCIENCE AND V.S.BELLIHAL
COMMERCE COLLEGE, HUNGUND
PROGRAMME OUTCOMES

BA

- The B.A. graduates will be familiar with the social, economical, historical, political thinking and literature of Kannada and English.
- The students acquire knowledge in the field of social sciences, literature and humanities which make them sensitive and sensible enough. Understand the world, their country, Democracy and its functioning, its economics, their society, as well as themselves and have awareness of ethical problems, social rights, Rights and Duties of the citizens, values and responsibility to the self and to others.
- Develop knowledge of theories, concepts, and research methods in humanities, history, social sciences and political philosophies of ancient, medieval and modern thinkers
- With human values framing the base to deal with various problems in life with courage and humanity.
- The students will be ignited enough to think and act over for the solution of various issues prevailed in the human life to make this world better than ever.
- Develop competency in literary works on the basis of the foundation laid by the scholars.
- To gain knowledge on fundamental principles of grammar in Languages.
- Realize the importance of literature in terms aesthetics, mental, moral intellectual.
- Nurture themselves in soft skills and literary competency and develop aptitudes to find jobs for their livelihood.
- To enable the students to familiarize with the Modern Governments in Legal and Philosophical framework.

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PROGRAMME OUTCOMES**

BSC

- Bachelor of Science offers theoretical as well as practical knowledge about different subject areas.
- This course forms the basis of science for coherent understanding of the academic field to pursue multi and interdisciplinary science careers in future. These subject areas include Physics, Chemistry, Mathematics, Computer Science and Botany and Zoology.
- Able to plan and execute experiments or investigations, → analyze and interpret data information collected using appropriate methods
- It helps to develop scientific temper and thus can prove to be → more beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace through research.
- Think critically, follow innovations and developments in → science and technology,

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PROGRAMME OUTCOMES
BCOM**

- Students would gain a thorough foundation in the fundamentals of Commerce and Finance
- The commerce and finance focused curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in commerce and business. Students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals.
- Students will be able to demonstrate knowledge in setting up a computerized set of accounting books
- The commerce and finance focused curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in commerce and business.
- Students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals.
- Learners will be able to recognize features and roles of businessmen, entrepreneur, managers, consultant

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COURSE OUTCOMES
COURSE OUTCOMES FOR B. A.

SUBJECT: ENGLISH

B.A. PART I

- To develop an understanding of poetic forms.
- The students would gain a brief understanding of the socio-political issues of the times in which the literary works were written.
- Through the prescribed plays the students would get a glimpse of the social problems prevalent in the twentieth century England and twenty first century India.
- The lucid prose style of the essays enables the students to comprehend, interrogate, and redefine multi-faceted aspects of culture. →

B.A. PART II

- To gain insight into poetic devices employed by the poets who came after nineteenth century.
- The students would get a deeper understanding of the Elizabethan Age.
- To decipher the relevance of Shakespeare in contemporary times.
- To analyze how Shakespeare universalizes human emotions.
- The lucid prose style of the essays enables the students to comprehend, interrogate and redefine multi-faceted aspects of culture.

B.A. PART III

- The students are introduced to the deeper understanding of the genre of the novels, and the reflection of human emotions in the novels.
- Liberal humanistic studies show the minute sketching of characters in novels.
- The students get an insight into the differential sensibilities that emanate from the dramas written by playwrights of different countries.

- Introduce them to the concepts of existentialism, absurd drama, and the meaninglessness of human existence.
- Students would get an understanding of the literatures born in the colonies.
- The local flavor infused in the poetic forms by the writers would also be an area of concern for the students.
- The students should also learn to analyze anonymous pieces of poetry using main ideas, poetic devices, metre and rhythm.

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Department of Kannada

DEPARTMENT OF KANNADA

B.A

ಬಿ.ಎ./ಬಿ.ಎಸ್/ಬಿ.ಬಿ.ಎಸ್/ಬಿ.ಬಿ.ಎಸ್.ಕೆ ಕನ್ನಡ ಪಠ್ಯಕ್ರಮವು ಕನ್ನಡ ನಾಡು-ನುಡಿ ಪ್ರಜ್ಞೆ, ಪ್ರಕೃತಿ, ಬಾಲ್ಯ ಮತ್ತು ಸಂಕೀರ್ಣಗಳೆಂಬ ನಾಲ್ಕು ಧೀಮಂತಗಳನ್ನು ಧೂಮಿಕೆಯನ್ನಾಗಿಸುತ್ತಿರುವಂತೆ ವಿನ್ಯಾಸಗೊಳಿಸಲಾಗಿದೆ.

- ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಸಾಮರ್ಥ್ಯ ಸಂದರ್ಭನೆಗೆ ಅಗತ್ಯವಿರುವ ಭಾಷಿಕ, ಬೌದ್ಧಿಕ, ಶೈಕ್ಷಣಿಕ, ವ್ಯವಹಾರಿಕ, ನೈತಿಕ ಮತ್ತು ಸಾಂಸ್ಕೃತಿಕ ಕಾಳಜಿಗಳನ್ನು ಗಮನದಲ್ಲಿಟ್ಟುಕೊಂಡು ಮಾನವೀಕರಣ ಪ್ರಕ್ರಿಯೆಯ ಉಪಕ್ರಮವಾಗಿ ಚರ್ಚೆಗೆ ಚೌಕಟ್ಟನ್ನು ಕಲ್ಪಿಸಿಕೊಡಲಾಗಿದೆ. ಅಧ್ಯಾಪಕರುಗಳು ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಆಸಕ್ತಿ ಮೂಡಿಸಲು ವಿಭಿನ್ನ ಬೋಧನೋಪಕರಣಗಳನ್ನು ಹಾಗೂ ಜ್ಞಾನದ ಇತರ ಸಾಮಗ್ರಿಗಳನ್ನು ಬಳಸಿಕೊಳ್ಳಲು ಔಚಿತ್ಯವಾದ ವಾತಾವರಣವನ್ನು ಸೃಷ್ಟಿಸಲಾಗಿದೆ.
- ಪ್ರಸ್ತುತ ಪತ್ರಿಕೆಯು ಕನ್ನಡದ ಆರಂಭಿಕ ಸಾಹಿತ್ಯ ಪ್ರಕಾರಗಳ ನೆಲೆಯ ಬಗೆಗೆ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಮನವರಿಕೆ ಮಾಡಿಕೊಡುವುದು. ಕನ್ನಡದ ಪ್ರಾಚೀನ ಜ್ಞಾನ ಮತ್ತು ಅನನ್ಯತೆಯನ್ನು ಅವರಲ್ಲಿ ತುಂಬುವುದು. ಆರಂಭಿಕ ಕಾಲಘಟ್ಟದ ಶಾಸನ ಹಾಗೂ ಸಾಹಿತ್ಯ ಪ್ರಕಾರ ಮಾತ್ರವಲ್ಲ ಅಂದಿನ ಸಂದರ್ಭದ ಸಾಹಿತ್ಯದ ಈ ಪ್ರತಿಕ್ರಿಯೆ ತುರ್ತು ಅಗತ್ಯಗಳನ್ನು ಚರ್ಚಿಸುವುದು ಮೂಲ ಆಶಯವಾಗಿದೆ. ಈ ಮೂಲಕ ಕನ್ನಡ ಭಾಷೆಯು ಅಭಿವೃದ್ಧಿಸಿದ ಕನ್ನಡಿಗರ ಬದುಕನ್ನು ಹಾಗೂ ಅವರು ರೂಪಿಸಿದ ಜ್ಞಾನವನ್ನು ಕುರಿತು ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ತಿಳಿಸಿ ಸಮಕಾಲೀನ ಅನಿವಾರ್ಯತೆಗಳ ಜೊತೆಗೆ ಜೋಡಿಸುವುದು ಮತ್ತು ಸಮಕಾಲೀನ ಸವಾಲುಗಳಿಗೆ ಪರಿಹಾರವನ್ನು ಕಂಡುಕೊಳ್ಳುವ ಸಾಧ್ಯತೆಗಳನ್ನು ಮನವರಿಕೆ ಮಾಡಿಕೊಡುವುದು ಪ್ರತಿಕ್ರಿಯೆ ಉದ್ದೇಶವಾಗಿದೆ.
- ಪ್ರಾಚೀನ ಕನ್ನಡ ಪ್ರತಿಭೆಯನ್ನು ಅಂದಿನವರು ಅಭಿವೃದ್ಧಿಸಿದ ಮಾಧ್ಯಮಗಳಲ್ಲಿ ಸೂಕ್ಷ್ಮವಾಗಿ ಪರಿಶೀಲಿಸಿ ಕಾವ್ಯಗುಣಗಳ ಮೂಲಕ ಸಮಾಜದ ಒಳತನ್ನು ಹಾಗೂ ಸಾಂಸ್ಕೃತಿಕ ಆಸ್ಥಿತಿಯನ್ನು ನಮ್ಮವರು ಕಂಡುಕೊಂಡ ಪರಿಯನ್ನು ಪ್ರಸ್ತುತ ಕಾವ್ಯ ಭಾಗಗಳಲ್ಲಿ ಗುರುತಿಸಿಕೊಳ್ಳುವುದು. ಅಲ್ಲದೇ ಕಾವ್ಯ ಮೌಲ್ಯಗಳನ್ನು ಹಾಗೂ ಸಾಮಾಜಿಕ ಮೌಲ್ಯಗಳನ್ನು ಸಮಕಾಲೀನ ಸಂದರ್ಭಗಳಿಗೆ ಜೋಡಿಸುವುದು.
- ಕನ್ನಡಿಗರ ಸೃಜನಶೀಲತೆಯ ಮೂಲಕ ಅಭಿವೃದ್ಧಿಸಿದ ಸಾಹಿತ್ಯ ಪ್ರಕಾರಗಳಲ್ಲಿ ಸಣ್ಣಕತೆಯು ಮಹತ್ವದ್ದಾಗಿದೆ. ಸಮಾಜದ ಪ್ರತಿಬಿಂಬವಾಗಿ ನಿಲ್ಲುವ ಸಾಹಿತ್ಯವು ಕಥೆಗಳ ಮೂಲಕ ಸಮಕಾಲೀನ ಸವಾಲುಗಳನ್ನು ಅರ್ಥೈಸಿಕೊಳ್ಳುವುದು ಹಾಗೂ ಆ ಮೂಲಕ ಸವಾಲುಗಳನ್ನು ಪ್ರತಿರೋಧವನ್ನು ತೋರಿದ ರೀತಿಯನ್ನು ಸೂಕ್ಷ್ಮವಾಗಿ ಅವಲೋಕಿಸುವುದು ಹಾಗೂ ಸೃಜನಶೀಲ ಬದುಕಿನಲ್ಲಿ ಕಲಾತ್ಮಕವಾಗಿ ಬದುಕಿನ ಹೋರಾಟಗಳು ರೂಪಗೊಂಡ ವಿನ್ಯಾಸವನ್ನು ಚರ್ಚಿಸುವುದು.
- ಮಧ್ಯಕಾಲೀನ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ ಆಯಾ ಆಯಾ ಮಧ್ಯಕಾಲೀನ ಸಂದರ್ಭದ ಕನ್ನಡಿಗರ ಬದುಕು ಪ್ರಯೋಗಶೀಲವಾದದ್ದು. ಚರಿತ್ರೆಯಲ್ಲಿ ಪದೇ ಪದೇ ನಡೆದ ಯುದ್ಧಗಳು ರಾಜಕೀಯ ಅನಿರೀಕ್ಷಿತಗಳು ಸಾಮಾಜಿಕ, ಸಾಂಸ್ಕೃತಿಕ ಪಲ್ಲಟಗಳ ಜೊತೆಗೆ ಸಾಹಿತ್ಯವು ಹೇಗೆ ಚಳುವಳಿಗಳನ್ನು-ಬದಲಾವಣೆಗಳನ್ನು ತಂದುಕೊಂಡಿತು ಎನ್ನುವುದನ್ನು ಮುಖ್ಯವಾಗಿ ಚರ್ಚಿಸುವುದು.
- ಮಧ್ಯಕಾಲೀನ ಸಂದರ್ಭದ ಕನ್ನಡಿಗರ ಪ್ರತಿಭೆಯು ಚರಿತ್ರೆಯಲ್ಲಿ ವಿರೋಚಿತ ನೆಲೆಗಳಿಂದ ಹಾಗೂ ಹಲವು ಪ್ರಯೋಗಶೀಲ ಧೂಮಿಕೆಗಳಿಂದ ಅಭಿವೃದ್ಧಿಗೊಂಡಿದೆ. ಮಧ್ಯಕಾಲೀನ ಕನ್ನಡ ಬೌದ್ಧಿಕ ಪಲಯ ಹೊಸ ಪ್ರಕಾರಗಳ ಮೂಲಕ ತಮ್ಮ ಚಿಂತನೆಗಳನ್ನು ಹರಿಬಿಟ್ಟು. ಮಾನವೇತಿಹಾಸದಲ್ಲಿ ಮಹತ್ವದ ತಿರುವುಗಳಿಗೆ ಈ ಸಂದರ್ಭದ ಸಾಹಿತ್ಯವು ಕಾರಣವಾಯಿತು. ಅದರಲ್ಲಿ ಮುಖ್ಯವಾಗಿ ವಚನ, ರಗಳೆ, ಪಟ್ಟಡಿ, ಸಾಂಗತ್ಯ, ತ್ರಿಪದಿ ಹಾಗೂ ಕೀರ್ತನೆ ಪ್ರಕಾರಗಳು ಇಲ್ಲಿ ಅಭಿವೃದ್ಧಿಯ ಮಾಧ್ಯಮವಾದವು. ಆತ್ಮನೋತಿಗೆ ಅಗತ್ಯವಿರುವ ಭಕ್ತಿ ಚಳುವಳಿ, ವೀರಶಾಸ್ತ್ರಗಳು, ತ್ಯಾಗಭೋಗದ ಸಮನ್ವಯದ ಸಮದೃಷ್ಟಿಕೋನಗಳು ಕಾವ್ಯಗಳು ವಿಶ್ವ ಪ್ರಜ್ಞೆಯ ಸಮಾನತೆಯ ಆಶಯಗಳು ಇಲ್ಲಿ ಅಭಿವೃದ್ಧಿಗೊಂಡಿವೆ.
- ಸಮಕಾಲೀನ ಸಂದರ್ಭದ ದಿಕ್ಕುಗಳಿಗೆ ಇಲ್ಲಿನ ಪ್ರಮೇಯಗಳನ್ನು ಜೋಡಿಸಿಕೊಂಡು ಸಮಕಾಲೀನ ಸವಾಲುಗಳನ್ನು ಪರಿಹರಿಸಿಕೊಳ್ಳಲು ಈ ಪಠ್ಯಗಳು ಧೂಮಿಕೆಯನ್ನು ಒದಗಿಸುತ್ತವೆ.
- ಕನ್ನಡ ಕಾದಂಬರಿ ಸಮಕಾಲೀನ ಸಂದರ್ಭದ ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಸತತ ಪ್ರಕಾರಗಳಲ್ಲಿ ಕಾದಂಬರಿ ಸಾಹಿತ್ಯವು ಒಂದು. ಸೃಜನಶೀಲತೆ ಮತ್ತು ಕಥನ ಕ್ರಮವನ್ನು ರೂಪಿಸುವಲ್ಲಿ ಈ ಪ್ರಕಾರವು ಮಹತ್ವದ ಪಾತ್ರವನ್ನು ವಹಿಸುತ್ತದೆ. ಕನ್ನಡ ಕಾದಂಬರಿಯು ಸೃಜನಶೀಲತೆಯ ಪ್ರತೀಕವಾಗಿ ಹಾಗೂ ಜ್ಞಾನದ ಒಂದು ಭಾಗವಾಗಿ ಅಧ್ಯಯನಿಸುವ ಒಂದು ವಿಶಿಷ್ಟತಮವೆಂದು ಇಲ್ಲಿ ಯೋಚಿಸಿಕೊಳ್ಳಲಾಗಿದೆ.

**V.M.K.S.R.VASTRAD ARTS SCIENCE AND V.S.BELLIHAL
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SUBJECT: ANCIENT INDIAN HISTORY, CULTURE AND ARCHAEOLOGY

History is record of the achievements of man. Indian History is a mirror of thought, religion, philosophy, cults and culture of India. The inhabitants of India, as those of elsewhere in the world, have passed through various stages of development in their march towards present-day civilization. Now written records are available about the earliest inhabitants of India. The period for which no written records or some other reliable evidence is available is called the 'Prehistoric Age'. India's history culture is dynamic, spanning back the beginning of human civilization.

PSO: 1: In an endeavor to further the holistic understanding of Ancient Indian Culture in all its parameters, this course provides a sound grounding in understanding the various vistas of our history and culture. Classify nature of pre historic societies identify Paleolithic and Neolithic settlements.

PSO: 2: The conservation of our heritage and also helps in heritage management. It opens the door to opportunities in the streams of Archaeology, Musicology, Conservation, Social Science and Humanities.

PSO: 3: To study the Cultural History of India and its facets, understand the various phases in its evolution; review the methods of interpretation of Archaeological data and analysis. To create awareness of musicology and promote remedial conservation for monuments and other artifacts.

PSO: 4 Artifacts via practical experience through field trips, practical, workshops etc. to develop a strong corps of research scholars who are equipped with the requisite skill and knowledge base about recent advances in the field of Archaeology, Cultural History, World Civilization, Religion, Philosophy, Performing Arts, Musicology, Conservation, Pail, etc.

PSO: 5 Classify urbanization in the genetic basin, classification of Buddhism and Jainism

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5. SUBJECT: SOCIOLOGY

B.A. Part-I

Paper I: General Sociology

- Through the development of an understanding of sociological theories and concepts students can demonstrate the role of theory in Sociology.
- Students can demonstrate an understanding of the diverse forms and sources of social stratification, inequality and difference that exist in society.
- Students will develop understanding of the social and cultural processes and structures that inform social interact. Students can articulate an understanding of how culture and social structure operate
- Students will develop an understanding of the reciprocal relationship between individuals and society.

Paper II: Indian Society

- Understand the basic knowledge of Indian Society.
- Understand the Hindu and Muslim Social organization.
- Describe the economics and political institution of Indian Society.
- Understand the functions of Indian Social System. →

B.A. Part II

Paper I: Social Change

- Describe the social and cultural changes in Indian society.
- Understand the theory of Social change and co-relate with contemporary Society.
- Analyze the cultural process.
- Understand the social movement in present and post scenario.

Paper II:

Social Problems in India

- This paper will develop theoretical understanding to study the individual behavior and social problems.
- Students get acquainted about the various social problems like child labour and abuse, unemployment, corruption, terrorism, casteism and communalism and gender discrimination.
- Students develop conceptual understanding about poverty and unemployment and studied about the two main poverty abolishment programs in rural India like MNREGA and IRDP.
- Students acquainted about affirmative action regarding backward caste and minorities. –

B.A. Part III

Paper I: Sociological Theories

- To understand the role of theory in sociology such that the student will be able to define theory, describe and illustrate its role in building sociological knowledge.
- Compare and contrast basic theoretical orientations in reference to social phenomena.
- Understand and learn how theories reflect the historical and social contexts of the times and cultures in which they were developed.

Paper II: Research Methods

- Understand the Research and Social Research.
- Understand the basic knowledge of Social Research.
- Development the comparative understanding of technique of research.

Paper III: Social Anthropology

- Understand the basic knowledge of Anthropology.
- Basic understanding of tribal culture.
- Analyze the Economic and ceremonial exchange among tribes.
- Understand the magic religion and science among tribes.

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SUBJECT: POLITICALSCIENCE

1. Political theory

- Through the study of Political Science, students, from different Perspectives try to learn practiced Politics through theoretical Polities in their Connption.
- Know Current Political activities through ideology.
- Develop students for their political Values.
- To use, freedom, equality, Justice, and Rights in our Practical life.
- The gain knowledge of Superiority from other governmental system in the present time of democratic governance system.

2. Theory and Practice of Modern Governments

- To know the constitutional system of different Countries.
- To gain knowledge of government enshrined in Constitutions and to use useful and people oriented government in Practical life.
- Find out the usefulness of these governance systems at the present time.
- Getting knowledge of theoretical and Practical Politics.
- Students will discharge Constitutional obligations in their practical life through the study of governance.

3. Western Political Thoughts

- Studies of Ideas in Political Science are useful in their Practical life.
- The human brain develops through the thoughts of thinkers. • Situational views have an important role in Political life.
- Often, the Influence of Ideas on the nature of governance System is that work works for social up gradation.

4. Comparative Government and Politics

- Getting knowledge of their political behavior by comparing different government arrangements.
- To gain knowledge of the nature and functions of government.
- Study Political activity and its political behavior from Comparative government.

- To know about the merits and demerits of governments of different countries.
- To study in what situations the governments would like and behave.

5. Indian Political Thought:

- To know the importance of the ideology of Indian Politics Thought.
- To increase your mental development by studying the views of various Indian thinkers.
- To gain knowledge of its utility in the Current Political Scenario.
- Understanding your practical life, ancient ideas and Current ideology.
- Understanding the merits and demerits of political ideas and experimenting in your real life field.

6. Public administration with Special Reference to India:

- Students will gain knowledge of Indian governance and use it in their field.
- Understanding the utility of Public administration in the present.
- To gain practical knowledge by understanding the administrative of governments.
- Get to know the various organizations and institutions of the government.
- Student will get knowledge about government administration and private administration.

7. Theory and Practice of International Relations:

- Students will increase their mental development by acquiring knowledge of international relations.
- Students will understand the political, economic, culture and geographical relations between different countries.
- To study their longing efforts for peace, war, tension and power among various nations.
- To gain Practical knowledge of diplomatic relations of different nations in the world system.
- Students will gain knowledge about what effect these ties have on human life and how political behavior takes place

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COURSE OUTCOMES FOR BSC

SUBJECT: ZOOLOGY

B.Sc. PART I

CO 1. Non Chordate I and Physiology

On completion of the course, students will be able to build concepts about:

- General classification of the non-chordata phyla up to classes. The morphological as well as anatomical features of different phyla of non chordates including Protozoa, Porifera and Coelentrata.
- Physiological process in mammals with special reference to man such as physiology of circulation, digestion, respiration excretion and reproduction, mechanism of muscle contraction, nerve impulse and reflex action, endocrine system, function of various glands and their secretions etc.

CO 2. Non-Chordata II and Biochemistry:

Students will be able to understand and build concepts of

- General classification of the non-chordate phyla up to classes and some special features, organs, life history and significance of phyla Platyhelminthes, Aschelminthes and Annelida.
- Biochemical components of the body, chemical compositions of different biological macromolecules such as of proteins, carbohydrate and lipids.
- The students will also be able to correlate the pathways and chemicals which are responsible for the energy production in our body.

CO3. Non-Chordata III, Evolution and Taxonomy

- Students will get knowledge about General classification of the non-chordate phyla up to classes with special reference to specific features of Arthropoda, Mollusca, Echinodermata and Hemichordata.

- Students will be able to understand the fundamental principles and concepts of systematic in which the animals are classified according to their characters. International rules of nomenclature and classification and opportunities and difficulties of taxonomy.
- Students will be able to understand Origin of life, various theories and concept related to evolution. →

B.Sc. PART II

CO.4 Protochordates, Animal Distribution and Ecology

- Students will be able to attain knowledge about Protochordates their general characters, classification up to orders, anatomy, history and post-embryonic development.
- The students will be able to understand Geological and Geographical distribution of animals; importance of animal fossils of different geological strata, zoo-geographical region of the world with their faunal characteristics with special reference to mammals, factors influencing large scale animal distribution etc.
- Students will be able to build and relate the concepts regarding ecology, ecosystem, and ecological environmental factors and limiting factors, energy flow and concept of pyramids, population dynamics, biogeochemical cycle, environmental pollution, and adaptation of animals in deserts and fresh water, and wild life conservation.

CO 5 Vertebrata

- The students will be able to have knowledge about General characters, classification and comparative anatomy of the integumentary, skeletal, circulatory, digestive, respiratory, and nervous and primogenital system of the vertebrates and some of their related special topics.

CO 6. Genetics and Cell Biology

- Students will be well versed with the concepts of genetics viz., Mendel's law of inheritance, linkage, crossing over and chromosome mapping, human chromosome and human chromosomal abnormalities, sex linkage and sex determination dosage compensation and Lyon's hypothesis, inborn errors of metabolism in man, and their application in this field.
- Students will be able to imbibe and apply the concepts of genetic material, its role in hereditary as well as molecular basis of mutations in genetic material and its effect.
- Students will be aware of the structure and function of cells, different cell organelles and will help the students understanding of various techniques. →

B.Sc. Part III

CO.7 Molecular Biology and Genetic Engineering

- The students will be able to build concepts about genome organization, chromosome mapping, molecular basis of gene regulation, somatic cell genetics and its applications. Students will be able to understand the concepts and applications of immunology.
- The students will be aware of the concepts, techniques, scope and applications of genetic engineering.

CO 8. Economic Zoology and Environmental Biology

- The students will be aware of economic importance of different groups of animals, their life cycles economic importance of different groups of animals, their life cycles, harmful and beneficial animals and their significance.
- Students will be able to identify various environmental problems such as environmental pollution, deforestation, eco toxicity their causes, effects on human being and their control.

CO 9. Development Biology and Ethology

- Students will be able to attain knowledge about various concepts and methods involved in development biology viz., different types of reproduction, metamorphosis, regeneration etc in various groups of animals.
- Students will be aware of concepts involved in teratogenesis, growth and ageing, and growth curves and their interpretation.
- The students will be well versed with various concepts of Ethology, behaviors with the help of examples around us.

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SUBJECT: BOTANY

B.Sc. PART I

On completion of this course students will be able to

Paper I: Fungi, Lichen, Bacteria & Viruses

- Understand general characteristics of fungi including structure, Reproduction and economic importance.
- Learn classification and Life history of different genera of fungi.
- Understand occurrence, general structure and reproduction and Economic importance Lichens.
- Learn structure, reproduction and economic importance of bacteria.
- Understand Nature, structure, transmission, multiplication and Economic importance viruses.

Paper II: Algae & Bryophyta

- Gain adequate knowledge about occurrence, distribution, structure and life history of various genera of Algae and Bryophytes.
- Study and impart knowledge about the ecological and economical importance of Algae and Bryophytes.

Paper III: Pteridophyta & Gymnospermophyta

- Study and impart knowledge about the occurrence, structure and life history of various genera of Pteridophytes and Gymnosperms.
- Learn the Classification of living & extinct Pteridophytes and Gymnosperms and their distribution in India as well as in world.
- Study the Distinguishing features of Pteridophytes and Gymnosperms and their economic importance. –

B.Sc. PART II Paper I: Morphology, Anatomy, Taxonomy and Life History of Angiosperm

- Able to understand the general characters of Dicotplant.
- Different classification of Angiosperm with examples.
- Studies of different families of Monocots and Dicots.

- Learn Anatomy and morphology of root, stem and leaves.
- Understand life history of Angiosperms.

Paper II: Plant Physiology & Plant Ecology

- Understand the process of Photosynthesis, Respiration and Nitrogen metabolism.
- Learn about the Photoperiodism.
- Know about the structure, function and regulation of different plant growth hormones (Auxin, Gibberellins, Cytokinins, ABA and Ethylene).
- Awareness of environment and environmental factors.
- To understand the interaction between abiotic and biotic components.
- Knowledge about the various floristic regions and phytogeography.
- Awareness of various environmental programs by the government and non governmental bodies.
- To spread awareness about various types of pollution.

Paper III: Cytology, Genetics, Molecular Biology and Evolution

Learn about structural organization and function of intracellular organelles. ∞

- Gain knowledge on the organization of genes and chromosome. ∞
- Learn about Mendelian Principles and cell divisions in plants.
- Know about linkage and crossing over, mutation, extra chromosomal inheritance, chromosomal aberration.
- Understand the structure and function of nucleic acid and evidences to prove DNA as genetic material.
- Learn about the process of protein synthesis and genetic code.
- Understand the evolution in living organism. ∞

B.Sc. PART III Paper I: Biotechnology and Plant Pathology ∞

- Understand Role of microorganism in daily life.
- Study Application of microbes in different industries like dairy, food, pharmaceutical and others.
- To know about basic concept of Genetic Engineering.
- Understand Basic concept of genetic engineering; tools and technology.
- Study Application of Genetic Engineering in human welfare such as environment, agriculture, medicine and industries.
- To understand the history of Plant Pathology and Koch's Postulates.

- Learn the different symptoms of diseases of Plants and distinguishing character of fungal, bacterial and viral symptoms.
- Understand Role of Toxins, Chemicals etc. on Plant diseases. ∞ Learn about the defense mechanism in plant diseases.
- Understand the Forecasting of Plant diseases.
- Understand the Dissemination of Plant diseases.

Paper II: Economic Botany, Applied Plant Anatomy, Plant Breeding, Marine Biology and Limnology

- Enumerate the macroscopic and microscopic characters, chemical constituents, adulterants, therapeutically, pharmaceutical uses of cereals, spices and medicinal plants.
- To study the structure and dynamics in biogeochemical cycles and organism communities.
- To study how pollution and other human influences affect the aquatic system from rivers and lakes to coastal and ocean.
- Understand the structure of Secondary xylem or wood anatomy of Gymnosperms and Angiosperms.
- Know in detail about plant breeding methods.

Paper III: Palaeobotany, Palynology, Plant Diversification, Morphogenesis and Tissue Culture

- Understand the paleontology, different types of rocks, Geological time scale and methods of fossilization of plant fossils.
- Understand different methods for study of fossils specimens.
- Understand the morphology and function of pollen grains.
- Learn about Morphogenesis, Diversification, Totipotency and Plant tissue culture techniques.
- Understand the advantage of in vitro propagation in various areas.

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SUBJECT: CHEMISTRY

B.Sc. PART I

After studying this course the students will be able to:

Paper- I (Inorganic Chemistry):

- Understand the modern periodic table and the periodic properties like atomic and ionic size, ionization energy, electron affinity, electro negativity etc.
- Understand the behavior of the inert gases.
- Be aware of definition of oxidation, reduction, oxidizing agent and reducing agents.
- Have basic knowledge of chemical bonding and coordination chemistry.

Paper- II (Organic Chemistry):

- Understand the basic principles of organic chemistry.
- Understand the basic terms for chemical reactions i.e. substrate and reagents, types of reagents, electrophilic and nucleophilic reaction, homolytic and heterolytic fission and inductive effect etc.
- Understand basics of the alkenes and alkynes chemistry.
- Gain information about stereoisomerism.

Paper- III (Physical Chemistry):

- Understand the basic principles of physical chemistry.
- Know about applications of first law of thermodynamics.
- Have thorough knowledge of electrochemistry and chemical equilibria.
- Know the importance of chemical kinetics. —

B.Sc. PART II Paper- I (Inorganic Chemistry):

- Develop ability to draw the shapes of molecules.
- Know about preparation and properties of p and d block elements.
- Know the principles involved in metallurgical extraction of some metals.
- Have adequate information about preparation, properties and uses of some inorganic compounds.

Paper- II (Organic Chemistry):

- Acquire the ability to characterize compounds using UV and IR spectroscopy.

- Understand the preparation and properties of functional groups.
- Gain knowledge about different name reactions.
- Have ability to complete the given reaction.

Paper-III (Physical Chemistry):

- Have insight into principles of thermodynamics.
- Know principles of electrochemistry.
- Know applications of colloidal state.
- Have knowledge of molar refraction, dipole moment etc.

B.Sc. PART III Paper-I (Inorganic Chemistry):

- Know the nature and purity of the crystal.
- Have detailed knowledge of theories of covalent and coordinate bond.
- Gain knowledge of metallurgical extraction of some heavy metals.
- Know the basic principles of glass, cement, fertilizer and steel industry.

Paper-II (Organic Chemistry):

- Understand the synthesis and properties of organometallics.
- Know the basic principles of proton magnetic resonance spectroscopy.
- Have proper information about preparation and properties of heterocyclic compounds.
- Know the synthetic application of acetoacetic ester and diethylmalonate.
- Understand the classification, nomenclature and chemistry of carbohydrates, proteins and polymers.

Paper- III (Physical Chemistry):

- Know the basics of nuclear chemistry.
- Understand the principles of chemical kinetics.
- Gain knowledge of thermodynamic derivation of laws of thermodynamics.
- Know the basic principles of photochemistry and E.M.F.
- Have clear concept of atomic structure. (

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SUBJECT: PHYSICS

After the completion of the course, Students will be able to understand following points.

CO1 Mechanics

- Get the knowledge about role of physics in sports in their daily life.
- The velocity and acceleration parameter give the knowledge about how the vehicles move.
- The information will teach the students about the rolling concept.

CO2 Heat & Thermal Physics

- Understand the concept of thermodynamics and there laws.
- Understand the Heat Engine and there uses.
- Describe the thermodynamic function and there relations.

CO3 Electricity and Magnetism

- Explain various phenomenons like Ferromagnetism, anti Ferromagnetism etc.
- Understand the relation in between Electromagnetic theory.
- Explain various phenomenons in light of Maxwell equations.

CO4 Optics

- Understand the physics behind various phenomenons in wave and optics.
- Understand various phenomenons and the cause or origin of them.
- Explain the relationship in between various optical phenomenons with the Fourier and matrix.
- Understand the physics behind various optical phenomenons.
- Understand various natural phenomenons which are happening in their surroundings.
- Explain the relationship in between various optical phenomenons.

CO5 Statistical Mechanics

- After taking this course students are able to determine the probability of any type of events. They are able to interpret different types of events.
- Students understand the concept of phase space and its volume.

- They can easily distinguish between different types of particles and statistics and can easily distribute bosons, fermions and classical particles among energy levels.
- After studying Fermi-Dirac statistics, students learn to deal with much electron system in real life.

CO6 Solid State Physics

- Demonstrate an understanding of the crystal lattice and how the main lattice types are described
- Formulate the theory of X-ray diffraction in the reciprocal lattice (k-space) formalism and apply this knowledge to generalize the formulation for matter waves
- Be able to perform structure determination of simple structures
- Learn Stefan's Boltzmann law is valid only at high temperature.
- Learn that lattice specific heat of solid vary T^3 at very low temperature.

CO7 Quantum Mechanics

- Pinpoint the historical aspects of development of quantum mechanics.
- Understand and explain the differences between classical and quantum mechanics.
- Understand the idea of wave function.
- Understand the uncertainty relations.
- Solve Schrödinger equation for simple potentials.

CO8 Nuclear Physics

- After taking this course, students are able to determine the charge, mass of any nucleus by using various spectrographs.
- They are able to understand the size of nucleus and all its properties.
- This course has led the students to understand interaction of various types of radiation with matter which they observe in their daily life. It's easy for them now to relate the theory to practical.
- Students now know various methods of accelerating various types of particles to perform scattering experiments.
- Students are able to understand the detecting methods and instruments for different types of charged and neutral particles.

CO9 Atomic Physics

- Describe theories explaining the structure of atoms and the origin of the observed spectra.
- List different types of atomic spectra.

- Explain different Laser used and makes a comparison between them.

CO10 Electricity & Electronics

- Manipulate voltages, currents and resistances in electronic circuits.
- Demonstrate familiarity with basic electronic components and use them to design simple electronic circuits.
- See how signals can be represented in the time and frequency domains for Fourier analysis.
- Basics of electric and electronic circuit's theory.
- Basics of electric power systems.

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SUBJECT: MATHEMATICS

B.SC. II SEM

PAPER-I TOPIC: DIFFERENTIAL AND INTEGRAL CALCULUS

Course Learning Outcomes: This course will enable the students to:

- Sketch curves in Cartesian and polar coordinate systems.
- Finding the arc length, curvature and radius of curvature by using Integration method.
- Evaluate and Involute using application of integration.
- Finding the Integration of Higher order trigonometry functions using reduction formula.
- Know to find the angle of the intersection of two curves

PAPER-II TOPIC: ALGEBRA AND GEOMETRY

Course Learning Outcomes: This course will enable the students to:

- Explain the properties of three dimensional shapes.
- Able to find Prime and composite numbers.
- Able to find Unit place of higher power of any number using congruence method.
- Finding the Centre and diameter of 3-D Equations.
- Know to finding the Enveloping cone of a sphere.

B.SC.III SEM

PAPER-I TOPIC: MATHEMATICAL LOGIC AND REAL ANALYSIS

Course Learning Outcomes: This course will enable the students to

- Assimilate the notions of limit of a sequence and convergence of a series of real numbers.
- Able to write Truth open sentence of a given compound statement.
- Able to prove a compound open sentence by direct and indirect Pr0ofs using rule of inferences.
- Able to find maximum and minimum value of two variables.
- Able to solve Mean value theorem for the function of two variables.

PAER-II TOPIC: GROUP THEORY, INTEGRAL CALCULUS AND DIEFFERNTIAL EQUATIONS

Course Learning Outcomes: The course will enable the students to

- Recognize the mathematical objects called groups.
- Link the fundamental concepts of groups and symmetries of geometrical objects.
- Explain the significance of the notions of cosets, normal subgroups, and factor groups.
- Analyze consequences of Lagrange's theorem.
- Learn about structure preserving maps between groups and their consequences.

B.SC.IV SEM

PAPER-I TOPIC: VECTOR CALCULUS AND INFINITE SERIES

Course Learning Outcomes: This course will enable the students to:

- Finding the absolute convergent of alternating series using Leibnitz theorem.
- Know to finding convergence of the infinite series.
- Infinite geometrical series solutions are able to find.
- Able to find Solution of Infinite harmonic series solution.
- Finding the velocity and acceleration by vector method.
- Able to find Divergence and curl of a vector point function.

PAPER-II TOPIC: PAPER-2 GROUP THEORY, FOURIES SERIES AND DIFFERENTIAL EQUATIONS

Course Learning Outcomes: This course will enable the students to

- Know to recognize the Normal subgroups and Quotient group.
- Able to solve half range series of Sine and Cosine functions using Fourier series.
- Able to Graphical representation of Sine and Cosine waves.

- Capable to find the Kernel of Homomorphism.
- Able to solve L.D.E. of nth order.

B.SC.V SEM

PAER-I TOPIC: REAL ANALYSIS

Course Learning Outcomes: This course will enable the students to:

- Understand many properties of the real line \mathbb{R} and learn to define sequence in terms of functions from \mathbb{R} to a subset of \mathbb{R} .
- Recognize bounded, convergent, divergent, Cauchy and monotonic sequences and to calculate their limit superior, limit inferior, and the limit of a bounded sequence.
- Apply the ratio, root, and alternating series and limit comparison tests for convergence and absolute convergence of an infinite series of real numbers.
- Learn some of the properties of Riemann integral functions, and the applications of the fundamental theorems of integration.

PAPER-II TOPIC: NUMERICAL ANALYSIS

Course Learning Outcomes: This course will enable the students to:

- Solving an Algebraic and Transcendental equations by various methods like Bisection and Iteration.
- Solution of Non- Homogeneous System of equations are to be solved using Iteration method.
- Finding the Nth order derivatives using difference formula.
- Solution of Linear differential equations with constant coefficients using Difference formula.
- By estimation method evaluating for the unknown value of y for the function $y=f(x)$.

PAPER-III TOPIC: DYNAMICS AND CALCULUS OF VARIATIONS

Course Learning Outcomes: This course will enable the students to:

- Familiarize with subject matter, which has been the single centre, to which were drawn mathematicians, physicists, astronomers, and engineers together.
- Understand necessary conditions for the equilibrium of particles acted upon by various forces and learn the principle of virtual work for a system of coplanar forces acting on a rigid body.
- Understand problems, methods and techniques of calculus of variations.

- Determine the centre of gravity of some materialistic systems and discuss the equilibrium of a uniform cable hanging freely under its own weight.
- Deal with the kinematics and kinetics of the rectilinear and planar motions of a particle including the constrained oscillatory motions of particles.
- Learn that a particle moving under a central force describes a plane curve and know the Kepler's laws of the planetary motions, which were deduced by him long before the mathematical theory given by Newton.

B.SC. VI SEM

PAPER-I TOPIC: DIEFERENTIAL EQUATIONS

Course Learning Outcomes: This course will enable the students to:

- Solving O.D.E. using Power series solutions.
- Formation of P.D.E. by Eliminating Arbitrary constants.
- Solving the Non-Linear P.D.E. by using Char pit's Method.
- Know to Solve Simultaneous Differential equations with two and three variables.
- Able to solve Total differential equations and condition of Integrability.
- **PAPER-II TOPIC: COMPLEX ANALYSIS AND RING THEORY**
- Course Learning Outcomes: This course will enable the students to:
- Know the fundamental concepts in ring theory such as the concepts of ideals, quotient rings, integral domains, and fields.
- Learn in detail about polynomial rings, fundamental properties of finite field extensions, and classification of finite fields.
- Able to solve Bounded area by using Complex Integration method
- To solve Integral value with bounded and unbounded area .
- Able to solve Taylor's and Laurent's series expansion by using Equality formula.

PAER-III TOPIC: TOPLOGY AND LAPLACE TRANSFORMS

Course Learning Outcomes: This course will enable the students to:

- Know about piecewise continuous functions, Dirac delta function, Laplace transforms and its properties.
- Solve ordinary differential equations using Laplace transforms.
- Understanding of the fundamental Axioms in mathematics and Capability of Developing ideas based on them.
- Ability to differentiate between some more Topological spaces.

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COURSE OUTCOMES FOR BCOM

B.COM PARTI

After completing B.Com, Students will be able to

Paper 101 Accounting

- Understand the concept of Accounting Principles and Indian Accounting Standards.
- Learn the meaning of government accounting and Lease accounting.
- Learn how to maintain royalty accounts, Accounts of Installment Retailing, Branch accounting and accounting of Insurance claim.
- Understand the important concepts of corporate accounting viz. Amalgamation of companies, Accounts of holding companies and liquidation of company.
- Perform accounting related to amalgamation of companies, Holding companies and liquidation of company.

Paper 102 Business Law

- Students will be able to demonstrate an understanding of the Legal Environment of Business.
- Students will be able to apply basic knowledge to business transactions.
- Students will be able to communicate effectively using standard business and legal terminology. Paper

103 Business Economics

Upon the completion of the paper, the students are expected to be able to acquire a good understanding of:

- The concept of business economics and its role in business decision-making.
- Law of demand, elasticity of demand and their applicability in business operations.
- The concept of various types of costs.
- The various factors of production and suitable theories related to them.
- Analyze operations of markets under varying competitive conditions.

Paper 104 Business Communication

Upon the completion of the paper, the students are expected to be able to acquire a good understanding of:

- Effective business writing.
- Effective business communications.
- Developing and delivering effective presentations.
- Effective interpersonal communications.
- Skills that maximize team effectiveness.
- The usefulness of visual aids and identifying common presentation tools.
- Overcome the problem of public speaking. • Facilitate intercultural communication.
- The shift from paper to digital communication.

Paper 105 Money, Banking and Foreign Exchange

After studying this paper, students will be able to understand:

- Various aspects of money such as its functions, demand, supply, value.
- Composition and working of money market.
- Various aspects of banking such as its functions, significance, types, operation.
- Concept of digital banking.
- Theories of foreign exchange.
- Working of IMF.

Paper 106 Business Organization and Management

On successful completion of the course students will be able in:

- Understanding of the main working aspects of organizations, not only from an economic point of view but also considering organizations as part of society.
- Analysis of the emerging opportunities in business.
- Knowledge of comprehensive major theories of management.
- Interpreting the meaning of the social responsibility and business ethics. →

B.COM PART II

Paper VII

Cost Accounting

On successful completion of the course students will be able:

- To understand the basic concepts and processes used to determine product costs.
- To be able to interpret cost accounting statements.
- To be able to analyze and evaluate information for cost ascertainment, planning, control and decision making.
- To be able to solve simple cases.

Paper VIII Auditing

After studying this paper, students will be able to:

- Understand the process of Financial Audit.
- Comprehend the importance of Internal Check, Vouching, Verification and valuation.
- Understand the provisions of companies Act regarding Audit.
- Understand the special points to be considered at the time of audit of statutory corporations, local bodies banking and insurance companies.

Paper IX Business Statistics

On successful completion of this subject, student should be able to:

- Explain basic statistical concepts such as statistical collection, species characteristics, statistical series, tabular and graphical representation of data, measures of central tendency, dispersion and asymmetry, correlation and regression analysis, time series analysis.
- Independently calculate basic statistical parameters (mean, measures of dispersion, correlation coefficient, indexes).
- Based on the acquired knowledge to interpret the meaning of the calculated statistical indicators.
- Choose a statistical method for solving practical problems.

Paper X Business Finance

- Learn concepts like Finance, Financial management, Time value of money, Leverage.
- Understand the various sources of procurement of funds for different organization.
- Understand the application of different methods of procurement and utilization of funds.

Paper XI Business Environment

After studying this paper, students will be able to understand:

- The concept of business environment and eco-environment.
- Role of the Government in economy-business, industry, agriculture and services.
- Social environment.
- Legal environment.

Paper XII Business Communication and Computers

Upon the completion of the paper, the students are expected to be able to acquire a good understanding of:

- The importance of ethical communication.
- Effective business writing.
- Effective business communications.
- Developing and delivering effective presentations.

- Effective interpersonal communications.
- Skills that maximize team effectiveness.
- Good time management.
- Awareness of concept of computers. →

B.COM PART III

Paper XIII Income Tax and Accounts

- Students will be able to develop approach to have proper interpretation of the statute.
- Students will be able to analyze simple fact situations and recognize income tax ramifications.
- Students will be able to demonstrate progressive learning of various tax issues and tax forms related mainly to individuals, HUF, Firm and others.
- Students will be able to communicate effectively using standard business and legal terminology.

Paper XIV Corporate Accounting

The objective of this paper is to:

- Give knowledge about preparation of accounts of companies as per latest companies Act.
- Understand accounting requirement of banking and insurance companies.

Paper XV Human Resource Management

After studying this paper, students will be able to understand:

- Evolution, concept, object and function of HRM.
- Human resource planning, recruitment and selection.
- Management of industrial relations.
- Concept, causes and prevention of industrial disputes.
- Leadership style, qualities of an effective leader.
- Human resource audit and research.

Paper XVI Marketing Management

- Understand the concept of Market, Marketing and Marketing Management.
- Know the process of Product planning, development and its pricing.
- Know the terms related to channels of distribution and promotional tools.
- Learn the concepts of marketing research and rural marketing.

Paper XVII-A Principles & Practice of Life and Property Insurance

- Understand the nature, scope and principles of Insurance.
- Know the importance of taking Insurance policy in life.
- Know about the various types of Insurance available at present.

- Locate the terms like premium, surrender value, re-insurance, double insurance.
- Learn about the characteristics of life and property insurance.

Paper XVII- B Insurance and Risk Management

After studying this paper, students will be able to understand:

- Present insurance law in India.
- The insurance act 1938.
- The LIC act1956.
- The IRDA act1999.
- Insurance salesmanship, insurance agent, branch manager and development officer.
- Meaning, nature and sources of risk management, types, objective and process of risk management. • Importance of risk management in insurance.