

Estd Year -1967

Adarsh Education Society's

ARTS, COMMERCE & SCIENCE COLLEGE, HINGOLI

Akola Road, Hingoli Dist. Hingoli - 431513 (Maharashtra)

(Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)



Accredited By NAAC (B⁺)

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DOCUMENTS

CRITERION – II

TEACHING-LEARNING AND EVALUATION

2.6 STUDENT PERFORMANCE AND LEARNING OUTCOMES (90)

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

ADARSH EDUCATION SOCIETY'S
ARTS, COMMERCE AND SCIENCE
COLLEGE, HINGOLI



PROGRAMME OUTCOME,
PROGRAMME SPECIFIC OUTCOME
AND COURSE OUTCOME

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PROGRAMME OUTCOME

B. A. –

1. To produce students with advanced skills in writing, reading and reasoning that will enable them to enter the work force directly or via professional or graduate schools.
2. The students will be familiarized with the significant socio-cultural issues in India through close reading of literary texts from diverse regions.
3. To impart them factual and theoretical information but to develop critical thinking faculty of their mind to enable them to think and reflect on the political issues and phenomenon objectively.
4. To learner develop the ability to use critical, analytical, and reflective thinking and reasoning.
5. The learner acquires the ability to reflect on social and ethical responsibilities in his/her professional life.
6. The learner acquires the competence to work responsibly and creatively as an individual or as a member or leader of a team and in multidisciplinary environments.
7. Realize the personal values i.e. ethical, moral & social responsibility, integrity and cross civilization consciousness.
8. Research methodology will be providing base for scientific thinking and rationalizing the minds, thoughts of students.
9. Promote and prepare students for greater commitment to higher ethical standards of public administration.
10. Analytical and critical thinking skills and aptitude required to serve and address the public issues and concerns.

B. COM. –

1. The B. Com. Graduates would be able to acquire basic and fundamental knowledge and skills for doing business and commercial activities of their choice.
2. The program also empowers the graduates to appear for various competitive exams or choose a profession of their choice such as CA, CS, ICWA, MBA, M.Com etc.
3. The program enables the students to acquire the accounting knowledge, management principles, retail trading, banking and insurance transactions, business economics and financial management.

4. The students also acquire knowledge in the field of management accounting, corporate accounting, statistical and mathematical techniques and knowledge relating to corporate law and business laws.

5. The students become capable of doing a business of their choice or choosing a profession or can become employees having basic knowledge and skill required for such activities

B. SC. –

1. Design and conduct experiments demonstrate their understanding of scientific method and process.
2. Students develop the skills on different methods of qualitative and quantitative analysis.
3. Increase an aptitude towards science and nature and also undertakes the fundamental and applied research in plant science in the benefit of the human and nature.
4. Familiarize the students with various skills such as analyze problem formulate hypothesis, and draw reasonable conclusion.
5. Develop generic skills to become an enlightened citizen.
6. Students will be acquired knowledge about Processing of Milk and Manufacturing of Different products.
7. Through responding to networking, the learners will acquire the knowledge of networking basics and components.
8. The learners will gain practical skill based knowledge of PC Installation, Networking, Google Site, etc.
9. The learner will be able to understand the evolution of various organs and systems in the vertebrate body according to its environment.
10. Theoretical, practical and skill oriented practices will not only improve students complete knowledge about fundamental Physics but also develop their interest to make their carrier in Physics subject.

B. C. A. –

1. Learners will be able to develop the codes as per the requirements.
2. The learners will able to design customer software by utilizing the knowledge of software engineering and various SDLC models.

3. Learners is able to Gather the requirement of software, able to place the various phases of software engineering and modelling and design, to code as per the need of software and host their respective website on free Google server.
4. Students will obtain the knowledge of Database Management System using various software like oracle, MySql and MS SQL server.
5. Learners will be able to understand functionality of Operating system Concepts and Structure and how various component work together in operating system.
6. The learners will gain practical skill based knowledge of Desktop publishing, project Development and etc.
7. Leaner is able to design various images as per requirement using various multimedia software's.

B. C. S. –

1. The learners are able to formulate the algorithms for simple problems, translate given algorithms to a working and correct program and correct syntax errors as reported by the compilers.
2. A learner is able to identify and correction of logical errors encountered during execution of computer language program.
3. The learner to work with an IDE to create edits, compile, run and debug programs and to analyze the various steps in program development.
4. Learners understand the concept of Web Applications.
5. Create web-based distributed applications using C#, ASP.NET, SQL Server and ADO.NET.
6. Proficiency in usage of popular and specialized software for the development of quality systems.

M. A. MARATHI –

1. मराठी भाषा आणि वाङ्मयाचे प्रगत ज्ञान प्राप्त होते.
2. विद्यार्थ्यांना आवड असलेल्या क्षेत्रात संशोधन करता येते.
3. वाङ्मयीन व जीवनविषयक जाणीव प्रगल्भ होते.
4. लेखन व गुणांना उत्तेजन मिळते.

5. चिकित्सक अभ्यासाची क्षमता विकसित होते.
6. वाङ्मयीन प्रश्न व चळवळी विषयी विचारप्रवणता वाढते.
7. विशिष्ट कालखंडातील साहित्याच्या व्याप्तीबद्दल माहिती मिळते.
8. भाषेचे विविध व्यवहार आणि साहित्याच्या संदर्भातील भाषा व्यवहार या विषयीच्या आकलनाची क्षमता वाढते.
9. विविध साहित्य प्रवाहाच्या प्रेरणा समजून घेता येतात.
10. साहित्य अवलोकनाच्या माध्यमातून सामाजिक बांधिलकी वृद्धिंगत करता येते.

M. A. HINDI –

1. शिक्षार्थियों को हिंदी साहित्य का पूर्णतः परिचय होगा।
2. हिंदी भाषा तथा व्याकरण के क्षेत्र में शिक्षार्थी सक्षम होंगे।
3. शिक्षार्थियों में नैतिक मूल्यों की स्थापना होंगी।
4. साहित्य और जीवन के स्थापित संबंध को शिक्षार्थी जान सकेंगे।
5. हिंदी भाषा एवं साहित्य के अध्ययन से शिक्षार्थियों में अनुसंधान के प्रति रुचि बढ़ेगी।
6. जनसंचार माध्यम, विज्ञापन, अनुवाद, पत्रकारिता तथा अध्यापन आदि क्षेत्रों में शिक्षार्थियों को रोजगार के अवसर उपलब्ध होंगे।
7. भाषा-विज्ञान और समीक्षा-सिद्धांत के क्षेत्र में शिक्षार्थी सक्षम लेंगे।

M. A. POLITICAL SCIENCE –

1. Understand the conceptual, theoretical and applied aspects of the discipline as one of the social sciences with interdisciplinary nature
2. Understand / imbibe / develop a command over / Nurture the vocabulary of politics.
3. Estimate institutional mechanisms and non-institutional political events and processes and formulate one's view of the same
4. Defend their views and ideas confidently with adequate evidence, be receptive to the views of others and carry forward the dialogue.
5. Build skills for accessing information, listening and reading comprehension, analytical and critical thinking, writing skills
6. Understand the role of human beings as conscious citizens and realise a constructive citizenship role for themselves inspired by a sense of social responsibility.

7. Create a community of informed consumers of knowledge geared towards academic excellence and increase the knowledge base and skill sets aimed at enhancing their professional competence.
8. Nurture professional skills, entrepreneurial skills, leadership and organizational skills while developing a sense of social responsibility.
9. Promote innovation and research by instilling a sense of independent and critical thinking with sensitivity to social needs.
10. Imbibe a sense of social responsibility, constitutional spirit and democratic ethos through nurturing citizenship values and multicultural understanding among the students.
11. Identify problems by closely examining the situations around them and think holistically about the phenomena and generate viable solutions to these problems
12. Demonstrate ability to accommodate the views of others and present their own opinions and complex ideas, in written or oral form, in a clear and concise manner in group settings.

M. A. SOCIOLOGY –

1. This course will help learner to understand the fundamental and foundational knowledge of sociological theories.
2. This course also helps to identify the research questions for inquiry and make able to the learners to formulate research proposal.
3. This course has importance and relevance in the knowing the social realities with using multiple approaches.
4. This course has aim to build up the capacity of the learners and make them able to understand the sociological perspectives to capture the social realities.
5. This course has importance in many ways to provide orientation to the students about the contemporary social movements India
6. This course would be helpful to provide foundational ideas of learners. This course enriches the sociological knowledge of the students.
7. The rural sociology and approaches and methods of village studies provide source of understanding the rural social structure.

M. SC. COMPUTER SCIENCE

1. Students will able to apply knowledge of mathematics, science and algorithm in solving Computer problems. Implement fundamental domain knowledge of core courses for developing effective computing solutions by incorporating creativity and logical reasoning.
2. Students will able to generate solutions by understanding underlying computer science environment.
3. Students will able to Design component, or processes to meet the needs within realistic constraints. Develop leadership skills and incorporate ethics, team work with effective communication & time management in the profession.
4. Students will able to Identify, formulate, and solve problems using computational temperaments and to write a programming code for any computer language well.
5. Students will able to comprehend professional and ethical responsibility in computing profession.
6. Students will able to express effective communication skills and developed group discussion study method to understand topic in detail with group.
7. Students will able to Recognize the need for interdisciplinary, and an ability to engage in life-long learning.
8. Students will apply Actual hands on technology to understand its working.
9. Students will able to Knowledge of contemporary issues and emerging developments in computing profession and project work.
10. Students will able to utilize the techniques, skills and modern tools, for actual development process.
11. Students will able to Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings in actual development work.
12. Students will apply the knowledge to Research insights and conduct research in computing environment and get new, recent knowledge, ideas to make new solutions.

M.SC. ZOOLOGY

1. Students will be able to classify animals from different groups based on their features.
2. Compare the functional morphology different groups of invertebrates.
3. Classify animals from different groups based on their features.

4. Explain the similarity and differences in the structure and function of organs in different groups of animals.
5. Classify animals from different groups based on their features.
6. Describe different taxa and elaborate on their anatomical and morphological features.
7. Identify and describe homologies between different groups of animals.
8. Describe evolutionary relationship between different taxa.
9. Identify animal pathogenic diseases in humans and suggest remedial measures.
10. Identify and describe economically important fish and other animals.
11. Identify animal pathogenic diseases in humans and suggest remedial measures.
12. Evaluate and describe the economic impact of animals on human society.
13. Feed and tabulate raw data using computer.
14. Explain and perform data representation using digital methods.
15. Perform basic operations of protein structure retrieval and comparison using different software.

M. SC. BOTANY

1. The program will train and orient the students in the field of Botany.
2. The students will be placed in plant-based industries, research and educational institutes. They can establish their own tissue culture labs.
3. The students can provide consultancy services for cultivation of medicinal plants and Identification of plants.
4. Understand the nature and basic concepts of Cell Biology, Biochemistry, Taxonomy and Ecology.
5. Analyze the relationships among plants, animals and microbes.
6. Perform procedures as per laboratory standards in the areas of Biochemistry, Bioinformatics, Taxonomy, Economic Botany and Ecology.
7. Understand the applications of Biological Sciences in Agriculture, Medicine, Pharmacy, Industrial Biology and Biotechnology.
8. Expand and increase current knowledge about plants in order to solve problems in many fields including Agriculture, Ecology, Medicine, Biotechnology and Horticulture.
9. Increase an aptitude towards science and nature and also undertakes the fundamental and applied research in plant science in the benefit of the human and nature.

M. SC. CHEMISTRY

1. To impart the chemistry knowledge of global standard.
2. Global level opportunity for research and Ph.D. program
3. Discipline specific competitive examinations conducted by different organizations
4. Enormous job opportunities in chemical, pharmaceutical, food and material industries including academic institutions
5. Specific placement in R and D in various industries

M. COM.

1. The M. Com. {Post Graduates} would be able to acquire basic and fundamental knowledge and skills for doing business and commercial activities of their choice.
2. The program also empowers the post graduates to appear for various competitive exams or choose a profession of their choice such as CA, CS, ICWA, etc.
3. The program enables the students to acquire the accounting knowledge, management principles, retail trading, banking and insurance transactions, business economics and financial management.
4. The students also acquire knowledge in the field of management accounting, corporate accounting, statistical and mathematical techniques and knowledge relating to corporate law and business laws.
5. The students become capable of doing a business of their choice or choosing a profession or can become employees having basic knowledge and skill required for such activities.
6. The program empowers the students to choose a profession of their choice such as CA, CS, CMA, etc. and become a professional in particular field.
7. The students become a successful accountants, managers, entrepreneurs and bankers etc.
8. The students become analyst in the industry on different issues like human resource, finance, marketing etc.
9. The students become capable of doing a business of their choice or choosing a profession or can become employees.

PROGRAMME SPECIFIC OUTCOME

Programme – B. A. English (Compulsory)

1. Through the close study of texts, students will develop knowledge, understanding and skills in order to communicate effectively in English.
2. Learners will be acquiring the skill of using English for media and electronic communication.
3. The ability to communicate and interpret written texts shall be augmented.
4. Students will learn the skills of language.
5. To create literary text in a variety of literary genres that demonstrates an ability to apply literary techniques and discriminate among aesthetic values.
6. Helps to analyse the literary text from critical point of view.
7. To produce students with advanced skills in writing, reading and reasoning that will enable them to enter the work force directly or via professional or graduate schools.
8. Learners will be able to acquire written and oral skills of language.
9. Learners will develop leadership qualities.

Programme – B. A. English (Optional)

1. Learners will understand and learn different forms of literature in English.
2. Analyse the text in a variety of the critical perspectives.
3. Through responding to different texts of Prose Fiction, the learners will acquaint themselves with the wide range of expressions in the English language.
4. Through responding to different Poetic texts the learners will acquaint themselves with the various nuances of poetic expressions in the English language.
5. Learners will be able to appreciate English Non-fictional prose with an understanding of various prose writings as developed through ages.
6. Learners will be able to appreciate English Drama with an understanding of various dramatic texts.
7. Through responding to different texts of Indian Writing in English the learners will acquaint themselves with the wide range of expressions in the Indian English language.

8. The learners will identify, explicate, and respond to key themes and elements in American literature in various literary genres.
9. The students will be familiarized with the significant socio-cultural issues in India through close reading of literary texts from diverse regions.
10. Students will acquire knowledge of the major concerns of the women through a reading of the representative works from different nations.
11. Learners will be able to understand the historical background of the canon of Western Literary Criticism.
12. The learners will gain practical skills of transcribing data in the International Phonetic Alphabet (IPA).
13. An ability to appreciate literary text through the practice of actual critical analysis will be gained.
14. The learners will gain capability of producing grammatically and idiomatically correct spoken and written discourse.

Programme – B. A. Marathi (Second Language)

1. मध्ययुगीन व आधुनिक गद्य-पद्य वाङ्मयाचा परिचय होतो.
2. मराठीतील वाङ्मय प्रकारांची ओळख होते.
3. मराठी साहित्यनिर्मिती आणि त्यांच्या प्रेरणासंबंधी आकलन होते.
4. मराठी भाषेतील व्याकरणाचे उपयोजन करण्याचे ज्ञान होते.
5. भाषाज्ञान होते.
6. मराठी भाषेच्या उपयोजनाशी परिचय होतो.
7. मराठी साहित्याची ओळख होते.
8. गद्य-पद्यांमधील विविध प्रकारांचा परिचय होतो.
9. मराठी भाषेच्या प्रमाण लेखनाची ओळख होते.
10. जीवनमूल्ये व कलामूल्ये यांच्याशी परिचय होतो.
11. मध्ययुगीन व आधुनिक गद्य-पद्य वाङ्मयाचा परिचय होतो.
12. मराठीतील वाङ्मय प्रकारांची ओळख होते.
13. मराठी साहित्यनिर्मिती आणि त्यांच्या प्रेरणांची माहिती होते.

14. मराठी व्याकरणाचे उपयोजनात्मक ज्ञान प्राप्त होते.
15. मराठी गद्य-पद्य घटकांच्या स्वरूपांचे ज्ञान होते.

Programme – B. A. Marathi (Optional)

1. साहित्यातील जीवनदर्शन,
2. साहित्य व भाषाविषयक आकलन क्षमता वाढते.
3. विविध वाङ्मयप्रकार समजून घेता येतात.
4. मराठी साहित्य, भाषा व संस्कृती यांचा जवळून परिचय होतो.
5. आधुनिक मराठी साहित्यातील विविध वाङ्मय प्रवाहांचा परिचय होतो.
6. मराठी भाषा व साहित्य अवलोकनाची रुची वाढते.
7. साहित्य कृतीला मुक्त प्रतिसाद देण्याची क्षमता निर्माण होते.
8. मराठी साहित्याच्या परंपरेचे स्थूल ज्ञान मिळते.
9. साहित्यप्रकारांचा तात्त्विक गति विकासात्म अभ्यास होतो.
10. साहित्यकृतींमधील सांस्कृतिक संदर्भांचे ज्ञान मिळते.
11. साहित्यभाषा व व्यवहारभाषा यांचे ज्ञान मिळते.
12. साहित्यातून प्रकट होणाऱ्या मानवी मूल्यांचे आकलन होते.
13. लेखन, वाचन, संभाषण, आकलन, परीक्षण इत्यादी भाषिक कौशल्यांचा विकास होतो.

Programme – B. A. Hindi (Second Language)

1. शिक्षार्थी स्नातक स्तर पर द्वितिय भाषा के रूप में हिंदी भाषा और साहित्य का सामान्य परिचय प्राप्त कर सकेंगे।
2. शिक्षार्थी हिंदी के व्यावहारिक ज्ञान से अवगत होंगे।
3. हिंदी भाषा के प्रति छात्रों में रुचि उत्पन्न होंगी।
4. हिंदी साहित्य का विधागत अध्ययन करने में शिक्षार्थी दक्ष होंगे।
5. शिक्षार्थी हिंदी कविता, कहानी, कथेतर गद्य, नाटक विधाओं के प्रमुख विषय और तत्त्वों की पहचान कर प्रतिक्रिया देने में सक्षम होंगे।
6. हिंदी भाषा-व्यवहार के कौशल को शिक्षार्थी हासिल कर सकेंगे।
7. पाठ का विश्लेषण करने में शिक्षार्थी सक्षम होंगे।

Programme – B. A. Hindi (Optional)

1. हिंदी साहित्य की विभिन्न विधाओं को शिक्षार्थी समझ और सिख सकेंगे।
2. विभिन्न आलोचनात्मक परिप्रेक्ष्य में पाठ का विश्लेषण शिक्षार्थी कर सकेंगे।
3. गद्य-कथा के विभिन्न पाठों का उत्तर देकर, शिक्षार्थी हिंदी भाषा की व्यापक अभिव्यक्तियों से स्वयं को परिचित करेगा।
4. विभिन्न काव्य ग्रंथों के माध्यम से शिक्षार्थी हिंदी भाषा के विभिन्न काव्यात्मक अभिव्यक्तियों से स्वयं को परिचित करा सकेंगे।
5. शिक्षार्थी हिंदी (गैर-काल्पनिक गद्य की) कथेत्तर गद्य की सराहना करने में सक्षम होंगे, जो गद्य-लेखन विभिन्न युगों में विकसित हुआ था।
6. विभिन्न नाट्य-ग्रंथों की सहायता से शिक्षार्थी हिंदी नाटक एवं एकांकी को नाट्यशास्त्रीय पद्धति से समझ सकेंगे।
7. शिक्षार्थी हिंदी साहित्य की विभिन्न विधाओं के प्रमुख विषयों और तत्वों की पहचान, व्याख्या और प्रतिक्रिया दे सकेंगे।
8. देश के विभिन्न भू-प्रदेशों में लिखे गए हिंदी साहित्य का अध्ययन करने से शिक्षार्थी भारत में हुए या हो रहे हैं महत्वपूर्ण सामाजिक-सांस्कृतिक मुद्दों से परिचित होंगे।
9. शिक्षार्थी हिंदी साहित्यिक आलोचना के सिद्धांत की ऐतिहासिक पृष्ठभूमि समझ सकेंगे।
10. हिंदी भाषा-व्यवहार का कौशल शिक्षार्थी हासिल करेंगे।
11. वास्तविक आलोचनात्मक विश्लेषण के अभ्यास के माध्यम से साहित्यिक पाठ की सराहना करने की क्षमता शिक्षार्थी प्राप्त कर सकेंगे।
12. शिक्षार्थी व्याकरणिक और मुहावरेदार रूप से सही बोली जानेवाली और लिखी जानेवाली हिंदी के प्रयोग की क्षमता हासिल करेंगे।

Programme – B. A. Political Science

1. To impart them factual and theoretical information but to develop critical thinking faculty of their mind to enable them to think and reflect on the political issues and phenomenon objectively.
2. To learner develop the ability to use critical, analytical, and reflective thinking and reasoning.
3. To explain different approaches to politics and build their own understanding of politics.

4. The learner acquires the ability to reflect on social and ethical responsibilities in his/her professional life.
5. To gain experience and confidence in the dissemination of project/research outputs.
6. The learner acquires the competence to work responsibly and creatively as an individual or as a member or leader of a team and in multidisciplinary environments.
7. To become able to assess the impact of the economic, social, and political environment from a global, national and regional level.

Programme – B. A. History

- 1) Aware of the basic themes, concepts, chronology and the Scope of Indian History
- 2) Acquaint with range of issues related to Indian History that span distinct eras
- 3) Think and argue historically and critically in writing and discussion
- 4) Prepare for various types of Competitive Examinations
- 5) Critically recognize the Social, Political, Economic and Cultural aspects of History
- 6) Carry out the basic research in Indian History
- 7) Realize the personal values i.e. ethical, moral & social responsibility, integrity and cross civilization consciousness
- 8) Cognizant of the basic subjects, impressions, timeline and the Scope of Modern Indian History & Social Reformers of Modern Maharashtra
- 9) Learn the history of Maharashtra from an investigative perspective
- 10) Develop a spirit of enquiry & the capability to critically assess the authentic evidence necessary for renovation of history
- 11) They will draw a valuable lesson from the contribution of great social reformers of Modern India
- 12) They will acquire in-depth understanding of art & architecture available at region & native level
- 13) Be familiarized with the interdisciplinary nature of History and its auxiliary subjects.
- 14) Achieve a historical awareness of the diversity of human experience across time & space

Programme – B. A. Sociology

1. Student will be able to demonstrate an understanding of how social class affects individual life
2. Social institutions are usually conceived of as the basic focuses of social organization.
3. Transcending individuals and intention by mediating the rules that govern living behavior.
4. This course gives insights about social change in India.
5. Principles of human rights are fundamental rights.
6. Social movements are a type of group action.
7. An attempt to familiarize students with the different sociological perspectives and theories.
8. Research methodology will be providing base for scientific thinking and rationalizing the minds, thoughts of students.

Programme – B. A. Economics

1. Students will be familiar with the knowledge and application of micro economics for the formulation of policies and planning.
2. Students will be able to consider the role of Industry in economy of Maharashtra and study the Industrial policies of Maharashtra.
3. Student will get the knowledge about the theory of distribution into various factors of production, such as: Land owner, labour, organizer, and Capital owner.
4. Students will be able to study the Transport, Infrastructure and Co-operative Movement in Maharashtra and understand the various challenges of Economy in Maharashtra.
5. This programme will enable students to understand and comment upon real economic issues like inflation, money supply, GDP and their interlinkages.
6. Students will be able to elucidate the role of government's scheme in economic development
7. Not only the students learn about traditional modes of payments but they are also able to know about the modern modes of payments which help in making cashless economy.

8. This programme will enable students to understand and comment upon real economic issues like employment and multiplier, acceleration, banking system, open economy, and their interlinkages.
9. Students will be able to comprehend the role of agriculture and industrialization in Economic Development and brings in light the environmental concepts such as natural resources, pollution, sustainable development etc.
10. Students will be able to classify and present the collected data in the form of graph, bar diagram, chart etc.
11. This programme intends to students to provide basic issues to students such as industrial policy and problems of industries as well as impact of MNCs on Indian Industrial Development.
12. Students will be able to know a major issues in international trade and finance as well as the conceptual frameworks for understanding these issues.
13. Students will understand the imbalance between Public Revenue & Public Expenditure. It will clarify the concept of deficit financing.
14. Students will gain knowledge and comprehension for the development and application of ideas for entrepreneurship.
15. Student develops an awareness of career choices and the option for higher studies.

Programme – B. A. Public Administration

1. Programme Outcome of the B.A in Public Administration provides students' knowledge, skills and aptitude needed to begin careers in the public service sectors and not-for-profit sector. After the completion of the same student will:
2. Develop a sound theoretical and practical understanding of the basic concepts and theories of organization and functioning of public administration in diverse field.
3. Prepare and inculcate the requisite skills and aptitude imperative for to be a good public administrator.
4. Promote and prepare students for greater commitment to higher ethical standards of public administration.
5. Theoretical and practical underpinnings about public administration theories, research and practices.
6. Analytical and critical thinking skills and aptitude required to serve and address the public issues and concerns.

7. An understanding of the ethical basis for public services and governance.
8. Communicate and interact productively with a diverse social groups and citizenry.
9. Prepare for higher order of thinking and analysis in different research areas of public administration.

Programme – B. Sc. Chemistry

- 1) After completion of B.Sc. Chemistry Degree, students gain theoretical and practical knowledge of handling chemicals
- 2) Demonstrate, solve and understand the major concept in the discipline of chemistry.
- 3) Students expand the knowledge of chemistry in Government services through Public Service Commission particularly in the field of food safety, health inspector, pharmacist etc.
- 4) Achieve the skills required to succeed in graduate school and post graduate school.
- 5) Students' gets opportunities in chemical industries like pharmaceutical industry, Agro product, paint polymer, rubbers, Bulk and fine chemicals, Drugs and dyes etc.
- 6) Design and conduct experiments demonstrate their understanding of scientific method and process.
- 7) Realise and develop understanding of impact of chemistry on Society.
- 8) To develop the ability to apply the principle of chemistry.
- 9) To appreciate the achievements in chemistry and to know the role of chemistry in nature as well as society.
- 10) To be familiarize with the emerging areas of chemistry and their applications in various spheres of chemical sciences to appraise the students its relevance in future study.
- 11) Students develop the skills on different methods of qualitative and quantitative analysis.

Programme – B. Sc. Botany

1. Understand the nature and basic concepts of Cell Biology, Biochemistry, Taxonomy and Ecology.
2. Analyse the relationships among plants, animals and microbes.
3. Perform procedures as per laboratory standards in the areas of Biochemistry, Bioinformatics, Taxonomy, Economic Botany and Ecology.

4. Understand the applications of Biological Sciences in Agriculture, Medicine, Pharmacy, Industrial Biology and Biotechnology.
5. Development of knowledge of modern and applied plant science and its use in establishment of self-employment or job career.
6. Expand and increase current knowledge about plants in order to solve problems in many fields including Agriculture, Ecology, Medicine, Biotechnology and Horticulture.
7. Develop skills in plant sciences and practical experience.
8. Increase an aptitude towards science and nature and also undertakes the fundamental and applied research in plant science in the benefit of the human and nature.

Programme – B. Sc. Mathematics

1. Think in logical and critical manner
2. Familiarize the students with various skills such as analyze problem formulate hypothesis, and draw reasonable conclusion.
3. Inculcate effective scientific and/or technical tools to handle issues in mathematics.
4. Introduce the students with multiple discipline of mathematics.
5. Prepare students for pursuing further studies in mathematics.
6. Equip the students with good knowledge and understanding in advanced mathematics.
7. Develop generic skills to become an enlightened citizen.

Programme – B. Sc. Electronics

1. Basic Electronics, Network Analysis, Semiconductor Devices and Electronic Instruments
2. Basic Digital Electronics and Digital Logic Circuits
3. Amplifiers, Oscillators and Multivibrators
4. Microprocessor (Intel 8085) and Microcontroller (Intel 8051)
5. Communication Electronics and Power Electronics
6. Electronic lab skills and Electrical circuit skills
7. Linear circuit design and Digital Logic Design

Programme – B. Sc. Dairy Science

1. After completing Degree in Dairy science one can work as a livestock supervisor in a various well established Dairy farm and Animal breeding farm.
2. Work as a supervisor in conservation of Animal Genetic Resources centers.
3. Job Opportunities as wage employment in Veterinary Assistant/Livestock Assistant.
4. Learners can be a Dairy farm Assistant, Artificial insemination Assistant/Inseminator.
5. Job as a Dairy Farm supervisor/ Animal Farm assistant.
6. Job as a Fodder production Assistant/Supervisor/Livestock Supervisor.
7. Self-Employment as Feed and Fodder producer, Dairy farm owner.
8. Students can be a Supervisor in Cattle feed Manufacturing unit, Artificial insemination Centre.
9. Learner will be getting a post of Supervisor in a Milk processing plant.
10. Learners can be a Dairy chemist in Milk processing plant (laboratory, Manufacturing unit.)
11. The Learners will identify Different species and breeds for easy management and precaution.
12. The Learners will gain capability to establish a Dairy farm, Goat farm, Sheep farm, pig farm and Poultry.
13. Students will be acquired knowledge about Processing of Milk and Manufacturing of Different products.
14. Students can understand the historical background of different traditional dairy Milk products and modern dairy products.

Programme – B. Sc. Computer Science

1. Learners will understand and learn Basics of Computer Hardware.
2. Learners will learn different problem solving techniques.
3. Learners will learn Algorithms and Flowcharts.
4. Learners will acquire the knowledge of programming languages.
5. Learners will acquire the knowledge of websites and web page development.
6. Learners will be able to write codes.
7. Through responding to networking, the learners will acquire the knowledge of networking basics and components.

8. The learners will be able to design their own software using the knowledge of software engineering.
9. Learners can design, edit and host their own free website on free Google server.
10. Students will acquire knowledge of Database Management System
11. Learners will be able to understand Operating system Concepts and Structure.
12. The learners will gain practical skill based knowledge of PC Installation, Networking, Google Site, etc.

Programme – B. Sc. Zoology

1. The student will be able to identify a given invertebrate up to class level.
2. Ability to understand the contribution of Invertebrates in the biodiversity index of any given habitat.
3. Ability to understand anatomical relations between different vertebrate classes.
4. The learner will be able to understand the evolution of various organs and systems in the vertebrate body according to its environment
5. Ability to identify and describe the structure and functions of different body parts of invertebrates and vertebrates.
6. Students would be able to relate different bones and be able to articulate them to form skeletons.
7. Students would be able to prepare temporary and permanent mountings of biological material.
8. Students would make observations of organisms in their natural environment and document them.
9. Monitor their blood pressure and identify blood groups.
10. Understand the function and types of the heart & circulatory system
11. Understand the chemical structure and functions of various biomolecules.
12. Students are able to improve their skills in microscopy, slide preparation, and observations.
13. Knowledge of changes in blood composition in disease.
14. Graduates will be able to explain and interpret various processes, phenomena, states, and evolutionary tendencies at a biological system level.
15. Understand the theories and concepts of evolution.
16. Understand the Recombinant DNA Technology.

17. Ability to understand and describe the life stages and social organization of honey bee species.

18. Awareness of various climatic zones of Earth.

Programme – B. Sc. Physics

1. Students will understand and learn fundamental concepts of Physics.
2. Students will get knowledge of principles of cooling and liquefaction of gasses, thermodynamics and theoretical physics.
3. Students will understand the Physics principles at deeper level.
4. This course also enables the students to develop their keen interest in studying Physics.
5. Learners will be able to know the principles of waves and oscillations, statistical mechanics, electromagnetism, optics and electronics.
6. Course will help the students to develop their skills through hands-on activities related to basic laws of Physics.
7. Practical experience will enhance the student interest and knowledge about various physics branches.
8. Student will understand different sub branches of the physics and their necessity in day today life.
9. Physics course will enable the students to apply them to the advanced courses as well as in industrial and research related fields.
10. Theoretical, practical and skill oriented practices will not only improve students complete knowledge about fundamental Physics but also develop their interest to make their carrier in Physics subject.

Programme – B. Com.

1. The program empowers the students to choose a profession of their choice such as CA, CS, CMA, MBA and M. Com etc. and become a professional in particular field.
2. The students become a successful accountants, managers, retailers and bankers etc.
3. The students become analyst in the industry on different issues like human resource, finance, marketing etc.

4. The students become capable of doing a business of their choice or choosing a profession or can become employees.

Programme – B. C. A.

1. Learners will be able to understand and learn Basics of Computer Programming fundamentals.
2. Learners will learn different algorithm techniques for solving the problem.
3. Learners will learn Basic of Computer Science.
4. Learners will obtain the knowledge of programming languages like C,C++, Java, Python and android .
5. Learners will obtain the knowledge of various web development technique like HTML, CSS, Java script, PHP and MySQL and so on.

Programme – B. C. S.

1. An ability to appreciate the actual hands on technology to understand it's working.
2. Learners will be able to knowledge of contemporary issues and emerging developments in computing profession.
3. Learner will be able to Identify, formulate, and solve problems using computational temperaments.
4. The learner will gain experience of procedural computer language programming.
5. The learner will gain practical skills of computer programming and their syntax and codes.
6. Learner to know the steps involved in compiling, linking and debugging C code

COURSE OUTCOME

ENGLISH - COMPULSORY

Subject – English Compulsory

Class – B. A. I / B. Com. I / B. Sc. I (Sem. I)

**Name of the Course – Ability Enhancement Compulsory Course –
English Communication**

Paper No – I

- 1) Through responding to and composing a wide range of texts, the learners will begin to use the English language in the best possible manner.
- 2) Through the close study of texts, students will develop knowledge, understanding and skills in order to communicate effectively in English.
- 3) Learners will value and appreciate the importance of the English language as a key to learning.
- 4) Learners will gain the personal enrichment from study of literary pieces in English.

Subject – English Compulsory

Class – B. A. I / B. Com. I / B. Sc. I (Sem. II)

**Name of the Course – Ability Enhancement Compulsory Course –
English Communication**

Paper No – II

- 1) Through responding to and composing a wide range of texts, it helps learners to understand the English language in a best possible manner.
- 2) Through the close study of texts, students will get the knowledge for understanding and skills in order to communicate effectively in English.
- 3) Learners will acquire ability to communicate through oral and written texts.
- 4) Learners will develop their knowledge about communication skills like report writing and news writing.

Subject – English Compulsory

Class – B. A. II / B. Com. II / B. Sc. II (Sem. III)

**Name of the Course – Ability Enhancement Compulsory Course –
English Communication**

Paper No – III

- 1) The students will attain a higher level of understanding and skills in order to carry out communicative activities.
- 2) Learners will be able to make practical use of the mechanics of the English language.
- 3) Learners will be acquiring the skill of using English for media and electronic communication.
- 4) The ability to communicate and interpret written texts shall be augmented.

Subject – English Compulsory**Class – B. A. II / B. Com. II / B. Sc. II (Sem. IV)****Name of the Course – Ability Enhancement Compulsory Course – English Communication****Paper No – IV**

- 1) The learners will be able to use the English language in a refined way for the personal and social purposes.
- 2) The students will achieve language skills in order to carry out communicative activities.
- 3) Learners will be able to make practical use of the mechanics of the English language through active and passive voice.
- 4) Learners will be acquiring the skill of electronic communication.

ENGLISH OPTIONAL**Subject – English Optional****Class – B. A. I (Sem. I)****Name of the Course – Understanding Prose Fiction****Paper No – I**

- 1) Learners will be able to appreciate the texts in English Prose Fiction genre.
- 2) Through responding to different texts of Prose Fiction, the learners will acquaint themselves with the wide range of expressions in the English language.
- 3) Learners will carry out the tasks of interpretation of novels and short stories by studying the critical analyses of the prescribed texts.

Subject – English Optional

Class – B. A. I (Sem. I)

Name of the Course – Understanding Poetry in English

Paper No – II

- 1) Learners will be able to appreciate English Poetry with an understanding of diverse poetic forms and themes.
- 2) Through responding to different Poetic texts the learners will acquaint themselves with the various nuances of poetic expressions in the English language.
- 3) Learners will carry out the tasks of interpretation of poems by studying the critical analyses of the prescribed texts.

Subject – English Optional

Class – B. A. I (Sem. II)

Name of the Course – Understanding Non-fictional Prose in English

Paper No – III

- 1) Learners will be able to appreciate English Non-fictional prose with an understanding of various prose writings as developed through ages.
- 2) Through responding to different Prose writings learners will be enriched in the use of prose for diverse thematic expressions.
- 3) Learners will attain a certain degree of proficiency in the interpretation of English prose.

Subject – English Optional

Class – B. A. I (Sem. II)

Name of the Course – Understanding Drama in English

Paper No – IV

- 1) Learners will be able to appreciate English Drama with an understanding of various dramatic texts.
- 2) Through responding to different plays learners will be introduced to various types of dramatic experiences.
- 3) Learners will be able to critically analyse texts from different dramatic genres.

Subject – English Optional

Class – B. A. II (Sem. III)

Name of the Course – Indian Writing in English

Paper No – V

- 1) Learners will be able to appreciate the texts in Indian Writing in English
- 2) Through responding to different texts of Indian Writing in English the learners will acquaint themselves with the wide range of expressions in the Indian English language.
- 3) Learners will carry out the tasks of literary interpretation by studying the critical analyses of the prescribed texts.

Subject – English Optional**Class – B. A. II (Sem. III)****Name of the Course – American Literature****Paper No – VI**

- 1) The learners will gain an overall insight of the American literature, and understand the background, historical context, the importance of American literature and its role in the society.
- 2) The learners will identify, explicate, and respond to key themes and elements in American literature in various literary genres.
- 3) Students will be enabled to review and recognize the body of literary works from America and will be able to understand the American spirit as well as to analyse various literary innovations and their culture.

Subject – English Optional**Skill Enhancement Course (SEC)****Class – B. A. II (Sem. III)****Name of the Course – Skills for Employability I – SEC-ENG-I****Paper No – I**

1. Learners will get sound knowledge and training of Employability Skills.
2. Learners will be enabled to a variety of self-instructional, learner-friendly modes of communication for improving their employability
3. Learners will expose to a variety of sub-skills in order to hone their skills as required in the present job market
4. Learners will be able to get a work culture for upcoming job opportunities

Subject – English Optional**Class – B. A. II (Sem. IV)****Name of the Course – Indian Literature in English Translation**

Paper No – VII

- 1) The students will acquire an introductory knowledge of Indian literary heritage.
- 2) The students will be familiarized with the significant socio-cultural issues in India through close reading of literary texts from diverse regions.
- 3) The students will realize the intellectual potential available from the Indian literary texts from various Indian languages.

Subject – English Optional**Class – B. A. II (Sem. IV)****Name of the Course – Women’s Literature****Paper No – VIII**

- 1) Students will be able to critically analyze the structure and meaning of various literary works written by women authors.
- 2) Students will acquire knowledge of the major concerns of the women through a reading of the representative works from different nations.
- 3) Students will be acquainted with the richness and depth of the female experience as depicted through their literary representations.

Subject – English Optional**Skill Enhancement Course (SEC)****Class – B. A. II (Sem. IV)****Name of the Course – Skills for Employability II – SEC-ENG-II****Paper No – II**

1. Learners will get sound knowledge and training of Employability Skills.
2. Learners will be able to expose to a variety of self-instructional, learner-friendly modes of communication for improving their employability
3. Learners will expose to a variety of sub-skills in order to hone their skills as required in the present job market
4. Learners will develop a work culture for upcoming job opportunities

Subject – English Optional**Class – B. A. III (Sem. V)****Name of the Course – Literary Criticism I****Paper No – IX**

- 1) Learners will be able to understand the historical background of the canon of Western Literary Criticism

- 2) Learners will appreciate the various theories developed during the Classical times and European Renaissance
- 3) Learners will be sensitized to the foundations of different critical traditions

Subject – English Optional

Class – B. A. III (Sem. V)

Name of the Course – Modern English Structures: Understanding English Phonology

Paper No – X

- 1) The learners will be able to perceive, and transcribe the sounds of the English language, while learning the acoustic and articulatory properties.
- 2) The learners will gain practical skills of transcribing data in the International Phonetic Alphabet (IPA).
- 3) The ability of synthesizing speech will be acquired.

Subject – English Optional

Skill Enhancement Course (SEC)

Class – B. A. III (Sem. V)

Name of the Course – Life Skills I – SEC-ENG-III

Paper No – III

- 1) Learners will get assistance for a smooth transition from student life into the world of work.
- 2) Learners will develop the skills necessary for understanding oneself and the sociocultural group.
- 3) Learners will be able to choose the best ways of utilizing their time, efforts and mental energies.

Subject – English Optional

Class – B. A. III (Sem. VI)

Name of the Course – Literary Criticism II

Paper No – XI

- 1) Learners will understand the basic principles of Literary Criticism as revealed from the study of the individual critics.
- 2) Learners will perceive the development of English Literary Criticism through the ages.

- 3) An ability to appreciate literary text through the practice of actual critical analysis will be gained.

Subject – English Optional

Class – B. A. III (Sem. VI)

Name of the Course – Modern English Structures: Understanding English Grammar

Paper No – XII

- 1) The learners will be able to have an appreciable understanding of English grammar.
- 2) The learners will gain capability of producing grammatically and idiomatically correct spoken and written discourse.
- 3) The learners will acquire the skill of locating language errors and ambiguities.

Subject – English Optional

Skill Enhancement Course (SEC)

Class – B. A. III (Sem. VI)

Name of the Course – Life Skills II – SEC-ENG-IV

Paper No – IV

- 1) Learning will training in skills required to find, understand, evaluate, create, and communicate digital information in a wide variety of formats.
- 2) Learners will be able to use diverse technologies appropriately and effectively to retrieve information, interpret results, and judge the quality of that information.

MARATHI – SECOND LANGUAGE

Subject – Marathi – Second Language

Class – B. A. I / B. Com. I / B. Sc. I (Sem. I)

Paper Name - अक्षरलेणी

Paper No – I

1. मध्ययुगीन व आधुनिक गद्य-पद्य वाङ्मयाचा परिचय होतो.
2. मराठीतील वाङ्मय प्रकारांची ओळख होते.
3. मराठी साहित्यनिर्मिती आणि त्यांच्या प्रेरणासंबंधी आकलन होते.
4. मराठी भाषेतील व्याकरणाचे उपयोजन करण्याचे ज्ञान होते.
5. भाषाज्ञान होते.

Subject – Marathi – Second Language

Class – B. A. I / B. Com. I / B. Sc. I (Sem. II)

Paper Name - साहित्यशिल्प सत्र - II

Paper No – II

1. मराठी भाषेच्या उपयोजनाशी परिचय होतो.
2. मराठी साहित्याची ओळख होते.
3. गद्य-पद्यांमधील विविध प्रकारांचा परिचय होतो.
4. मराठी भाषेच्या प्रमाण लेखनाची ओळख होते.
5. जीवनमूल्ये व कलामूल्ये यांच्याशी परिचय होतो.

Subject – Marathi – Second Language

Class – B. A. II / B. Com. II / B. Sc. II (Sem. III)

Paper Name - अक्षरविद्या सत्र - III

Paper No – III

1. मध्ययुगीन व आधुनिक गद्य-पद्य वाङ्मयाचा परिचय होतो.
2. मराठीतील वाङ्मय प्रकारांची ओळख होते.
3. मराठी साहित्यनिर्मिती आणि त्यांच्या प्रेरणांची माहिती होते.
4. मराठी व्याकरणाचे उपयोजन करण्याचे ज्ञान प्राप्त होते.
5. मराठी गद्य-पद्य घटकांच्या स्वरूपाचे ज्ञान होते.

Subject – Marathi – Second Language

Class – B. A. II / B. Com. II / B. Sc. II (Sem. IV)

Paper Name - साहित्यसरीता सत्र - IV

Paper No – IV

1. मध्ययुगीन व आधुनिक गद्य-पद्य वाङ्मयाचा परिचय होतो.
2. मराठीतील वाङ्मय प्रकारांची ओळख होते.
3. मराठी साहित्यनिर्मिती आणि त्यांच्या प्रेरणा यांचे आकलन होते.
4. मराठी व्याकरणाचे उपयोजनात्मक ज्ञान प्राप्त होते.
5. मराठी गद्य-पद्य घटकांच्या स्वरूपाचे ज्ञान होते.

MARATHI (OPTIONAL)

Subject – Marathi Optional

Class – B. A. I (Sem. I)

Paper Name - आधुनिक मराठी कथा वाङ्मय- I

Paper No – I

1. कथा वाङ्मयाच्या विविध प्रकारांची ओळख होते.
2. विद्यार्थ्यांची कथात्म दृष्टी विकसित होते.
3. विद्यार्थ्यांच्या साहित्याभिरुचीच्या आकलन कक्षा रुंदावतात.
4. भाषिक आणि वाङ्मयीन सौंदर्यदृष्टिचा विकास होतो.
5. मराठीच्या विविध बोलींचा परिचय होतो.

Subject – Marathi Optional

Class – B. A. I (Sem. I)

Paper Name - मध्ययुगीन आणि आधुनिक मराठी पद्य वाङ्मय

Paper No - II

1. मराठी काव्यप्रवाहातील विचारधारांची ओळख होते.
2. कवितेंमधून प्रकट झालेल्या मानवी मूल्यांचे आकलन होते.
3. भाषिक वाङ्मयीन सौंदर्यदृष्टिचे विकसन होते.
4. कवितेच्या विविध रचना प्रकारांचा परिचय होतो.
5. प्राचीन आणि आधुनिक काव्यप्रकारांची ओळख होते.

Subject – Marathi Optional

Class – B. A. I (Sem. II)

Paper Name – मराठी कथात्म साहित्य- III

Paper No - III

1. महामानवांच्या व्यक्तिमत्त्वातून प्रेरणा मिळते.
2. मानवी मूल्यांची रुजवणूक होते.
3. आत्मकथनपर, चरित्रपर, प्रवासवर्णनपर व इतर कथात्म साहित्य निर्मितीस प्रेरक वातावरण निर्मिती होते.
4. वाचन आणि लेखन अभिरुची वृद्धिंगत होते.

Subject – Marathi Optional

Class – B. A. I (Sem. II)

Paper Name – आधुनिक मराठी कविता - IV

Paper No – IV

1. आधुनिक मराठी कवितेचा परिचय होतो.
2. काव्यप्रवाहातून आविष्कृत मानवी मूल्यांचे आकलन होते.
3. काव्यरचनाप्रकार, भाषा आणि प्रतिमा सृष्टीचा अभ्यास होतो.
4. मराठी काव्यप्रवाहातील वैचारिक अधिष्ठानांचा शोध घेता येतो.

Subject – Marathi Optional

Class – B. A. II (Sem. III)

Paper Name – निवडक मराठी गद्य-V

Paper No - V

1. गद्य संकल्पनेचा परिचय होतो.
2. मानवी मूल्यांची रुजवणूक होते.
3. आत्मकथनपर, चरित्रपर, प्रवासवर्णनपर व इतर गद्यसाहित्य निर्मितीस प्रेरणा मिळते.
4. वाचन आणि लेखन यांची अभिरुची वृद्धिंगत होते.
5. मराठी साहित्य वाचनाकडे वाचकांचा ओढा वाढतो.

Subject – Marathi Optional

Class – B. A. II (Sem. III)

Paper Name – मराठी नाटयात्म साहित्य-VI

Paper No – VI

1. आधुनिक मराठी नाटकांचा परिचय होतो.
2. नाटयप्रवाहातून प्रकटलेल्या मानवी मूल्यांचे आकलन होते.
3. मराठी वाङ्मय प्रवाहांचा मागोवा घेता येतो.

4. नाट्यरचना प्रकार, भाषा आणि प्रतिमा सृष्टीचा अभ्यास करता येतो.
5. मराठी नाट्यप्रवाहातील वैचारिक अधिष्ठानाचा शोध घेता येतो.

Subject – Marathi Optional

Class – B. A. II (Sem. III)

Paper Name – मराठी भाषिक कौशल्ये : संभाषण कौशल्ये - SEC-I

Paper No – I

1. संभाषण कौशल्य विकासाला सहाय्य होते.
2. मराठी भाषा क्षमतेच्या वाढीस मदत होते.
3. संभाषण क्षेत्राची दारे खुली होतात.
4. विविध व्यवसाय क्षेत्रात संधी मिळतात.

Subject – Marathi Optional

Class – B. A. II (Sem. IV)

Paper Name – मराठी भाषिक कौशल्ये : लेखन कौशल्ये -- SEC-II

Paper No - II

1. लेखन कौशल्य विकासाला सहाय्य होते.
2. मराठी भाषा क्षमतेच्या वाढीस मदत होते.
3. लेखन क्षेत्राची दारे खुली होतात.
4. विविध व्यवसाय क्षेत्रात संधी मिळतात.

Subject – Marathi Optional

Class – B. A. II (Sem. IV)

Paper Name – निवडक कादंबरी वाङ्मय - VII

Paper No - VII

1. कादंबरी वाङ्मयाच्या विविध प्रकाराची ओळख होते.
2. विद्यार्थ्यांची कथात्मदृष्टी विकसित होते.
3. कादंबरी अध्ययनामुळे जीवन आकलन कक्षा रुंदावतात.
4. भाषिक आणि वाङ्मयीन सौंदर्यदृष्टिचा विकास होतो.

Subject – Marathi Optional

Class – B. A. II (Sem. IV)

Paper Name – वैचारिक साहित्य - VIII

Paper No – VIII

1. विविध विचारधारांची ओळख होते.
2. मानवी मूल्यांचे आकलन होते.
3. विविध तत्त्वज्ञानाचा परिचय होतो.
4. सामाजिक प्रश्नांची ओळख होते.

Subject – Marathi Optional

Class – B. A. III (Sem. V)

Paper Name – मध्ययुगीन मराठी वाङ्मयाचा इतिहास -IX

Paper No - IX

1. मध्ययुगीन कालखंडातील महत्त्वपूर्ण भक्तिसंप्रदायांची ओळख होते.
2. मध्ययुगीन कालखंडातील वाङ्मयातून प्रकट झालेल्या मानवी मूल्यांचे आकलन होते.
3. मध्ययुगीन मराठी वाङ्मयीन चळवळी व प्रेरणांचे आकलन होते.
4. मध्ययुगीन वाङ्मयाच्या निर्मिती आणि स्वरूपाचे ज्ञान होते.
5. मध्ययुगीन कालखंडातील वाङ्मयीन रचना प्रकारांचा परिचय होतो.

Subject – Marathi Optional

Class – B. A. III (Sem. V)

Paper Name – साहित्यविचार -X

Paper No – X

1. वाङ्मयीन दृष्टिकोनाचे विकसन होते.
2. भारतीय साहित्यशास्त्राची ओळख होते.
3. पाश्चिमात्य साहित्यशास्त्राची ओळख होते.
4. रसविचाराचे पायाभूत ज्ञान होते.
5. शब्दांच्या विविध अर्थांचे ज्ञान होते.

Subject – Marathi Optional

Class – B. A. III (Sem. VI)

Paper Name – मध्ययुगीन मराठी वाङ्मयाचा इतिहास -XI

Paper No - XI

1. मध्ययुगीन भक्ति संप्रदायाची ओळख होते.
2. मध्ययुगीन काळातील मानवी मूल्यांचे आकलन होते.
3. मध्ययुगीन वाङ्मयीन चळवळी व प्रेरणांचे आकलन होते.

4. मध्ययुगीन वाङ्मयाच्या निर्मितीचे आणि स्वरूपाचे ज्ञान होते.
5. मध्ययुगीन वाङ्मयीन रचनाप्रकारांचा परिचय होतो.

Subject – Marathi Optional

Class – B. A. III (Sem. VI)

Paper Name – भाषाविज्ञान व व्याकरण -XII

Paper No – XII

1. भाषिक ज्ञानाची वृद्धी होते.
2. मराठी भाषेच्या इतिहासाची ओळख होते.
3. विविध क्षेत्रातील व्यावसायिक संधी प्राप्त होतात.
4. मराठी व्याकरणीक घटकांचे ज्ञान होते.

Subject – Marathi Optional

Class – B. A. III (Sem. V)

Paper Name – मराठी भाषिक कौशल्ये विकास - SEC- III

Paper No – III

1. मराठी भाषिक क्षमतांच्या वाढीस मदत होते.
2. मराठी भाषिक कौशल्ये विकासाला वाव मिळतो.
3. विविध क्षेत्रातील व्यावसायिक संधी प्राप्त होतात.
4. मराठी भाषेतील ग्रंथ प्रकाशनाचे स्वरूप समजून घेण्यास मदत होते.

Subject – Marathi Optional

Class – B. A. III (Sem. VI)

Paper Name – मराठी भाषिक कौशल्ये विकास - SEC-IV

Paper No – III

1. विविध प्रकारच्या कार्यक्रमांचे आयोजन करता येते.
2. विविध क्षेत्रातील व्यवसायांच्या संधी उपलब्ध होतात.
3. देहबोलीच्या वापरतून प्रभावी संभाषण कला अवगत होते.
4. मुद्रितशोधन कौशल्ये विकसित होते.
5. प्रमाण मराठीच्या नियमांचा लेखन क्रियेमध्ये उपयोग करता येतो.

HINDI – SECOND LANGUAGE

Class: B.A., B.Com. B.Sc. First Year, Semester First

Name of the Course: साहित्य भारती -I

Paper No. : I

1. शिक्षार्थी सामान्यतः हिंदी भाषा और साहित्य से परिचित होंगे।
2. कालानुरूप हिंदी कहानी और कविता में आये परिवर्तन को शिक्षार्थी समझ सकेंगे।
3. हिंदी रचनाओं में अभिव्यक्त समस्याओं के समाधान के लिए शिक्षार्थी प्रेरित होकर उनमें नैतिक मूल्यों की स्थापना हो सकेंगी।
4. प्रयोजनमूलक हिंदी से शिक्षार्थी परिचित होंगे।
5. कहानी के तत्वों से शिक्षार्थी परिचित होंगे।

Class: B.A., B.Com., B.Sc., First Year, Semester Second,

Name of the Course: साहित्य भारती-II

Paper No. :II

1. हिंदी कहानी का तात्त्विक विवेचन करने में शिक्षार्थी दक्ष होंगे।
2. कविता का आकलन और मूल संवेदना की समझ शिक्षार्थियों में आएगी।
3. शिक्षार्थी आलोच्य रचनाकारों से परिचित होंगे।
4. पत्र-लेखन की प्रविधि से शिक्षार्थी अवगत होंगे।
5. गद्य और पद्य रचनाओं की विषय-वस्तु समझने में शिक्षार्थी दक्ष होंगे।

Class: B.A., B.Com., B.Sc. Second Year, Semester Third.

Name of the Course : निबंध तथा कथेतर गद्य

Paper No. : III

1. निबंध विधा से शिक्षार्थी परिचित होंगे।
2. एकाँकी विधा का सामान्य परिचय शिक्षार्थी पा सकेंगे।
3. शिक्षार्थी संस्मरण, जीवनी, पत्र, लेख, सम्बोधन आदि कथेतर गद्य-विधाओं से शिक्षार्थी परिचित होंगे।

4. विभिन्न गद्यकारों से शिक्षार्थी परिचित होंगे।
5. निबंध तथा कथेत्तर गद्य-रचनाओं के अध्ययन से शिक्षार्थियों के वैचारिकता में सुधार होगा।

Class: B.A., B.com., B.Sc Second Year, Semester fourth.

Name of the Course: नाटक तथा प्रयोजनमूलक हिंदी.

Paper No. : IV

1. शिक्षार्थी प्रयोजनमूलक हिंदी से परिचित होंगे।
2. इंटरनेट-वेब सर्चिंग, ई-मेल की प्रविधी के प्रयोग में शिक्षार्थी सक्षम होंगे।
3. दूरदर्शन और मोबाइल के विज्ञापन-लेखन से शिक्षार्थी परिचित होंगे ।
4. नाटक के तत्वों से शिक्षार्थी अवगत होंगे।
5. शिक्षार्थी नाटकीय पाठ का समालोचनात्मक विश्लेषण करने में सक्षम होंगे।

HINDI - OPTIONAL

Class: B.A. First Year, Semester First

Name of the Course: कथा साहित्य

Paper. No. I

- 1 शिक्षार्थी हिंदी गद्य कथा-शैली में पाठ को समझने में सक्षम होंगे।
2. कथा-साहित्य की लेखन शैली से शिक्षार्थी परिचित होंगे।
3. कहानी और उपन्यास सृजक तत्वों को शिक्षार्थी समझ सकेंगे।
4. कथाकार की रचनात्मक-प्रक्रिया से शिक्षार्थी अवगत होंगे।
5. कथा-साहित्य में वर्णित विविध समस्याओं की जानकारी प्राप्त कर शिक्षार्थियों को उन समस्याओं के समाधान के लिए एक निश्चित दिशा मिलेगी।

Class: B.A. First Year, Semestor First

Name of the Course: नाटक तथा एकांकी

Paper. No. II

1. शिक्षार्थी विभिन्न नाटकीय पाठों की समझ के साथ हिंदी नाटक को समझने में

सक्षम होंगे।

2. विभिन्न नाट्य-प्रकारों से शिक्षार्थी परिचित होंगे।
3. शिक्षार्थी विभिन्न नाटकीय विधाओं के पाठ का समालोचनात्मक विश्लेषण करने में सक्षम होंगे।
4. शिक्षार्थियों में नाट्य-लेखन-कौशल का विकास होगा।
5. नाट्य-शास्त्र विषयक मान्यताओं का परिचय शिक्षार्थियों को होगा।

Class: B.A. First Year, Semestor second

Name of the Course : कथा साहित्य

Paper. No. III

1. हिंदी साहित्य की कहानी और उपन्यास विधा से शिक्षार्थियों का परिचय होगा।
2. कथा-साहित्य के माध्यम से छात्रों की चिंतन तथा लेखन कौशल की क्षमता का विकास होगा।
3. विविध पात्रों की मानसिकता एवं क्रिया-कलापों से शिक्षार्थियों में सही और गलत को परखने की क्षमता विकसित होगी।
4. हिंदी साहित्य की कहानी और उपन्यास विधा से शिक्षार्थी परिचित लेंगे।
5. कहानी और उपन्यास के शिल्प-शैली के अध्ययन में शिक्षार्थी दक्षता प्राप्त करेंगे।

Class: B.A. First Year, Semester Second

Name of the Course: नाटक तथा एकांकी

Paper No: IV

- 1 शिक्षार्थियों का नाटक और एकांकी विधा से परिचय होगा।
2. नाटक तथा एकांकी के प्रति छात्रों में अभिरुचि बढ़ेगी।
3. शिक्षार्थियों में संवाद लेखन-वाचन कौशल का विकास होगा।
4. रंगमंच से संबंधित जानकारी शिक्षार्थियों को होगी।
5. अभिनय के प्रति आकर्षण निर्माण होकर शिक्षार्थियों की अभिरुचि विकसित

होंगी।

Class : B.A Second Year, Semester third

Name of the course : मध्ययुगीन काव्य

Paper. No. V

1. शिक्षार्थी मध्ययुगीन हिंदी काव्य से परिचित होंगे।
2. मध्ययुगीन हिंदी काव्य के विविध रूपों और विषयों को समझने के साथ विषय-वस्तु के आकलन में शिक्षार्थी सक्षम होंगे।
3. मध्ययुगीन काव्य, परिस्थितियाँ-प्रवृत्तियों से शिक्षार्थी परिचित होंगे।
4. भवन कवियों एवं संतों के उपदेशों को आचरण में लाने हेतु शिक्षार्थी सक्षम होंगे।
5. मध्ययुगीन हिंदी काव्य ही के भाव-पक्ष और कला पक्ष, शिल्प-शैलीगत अध्ययन में शिक्षार्थी सक्षम होंगे।

Class : B.A., Second Year, Semester Third.

Name of Course: निबंध तथा कथेत्तर गद्य

Papor No. VI

1. शिक्षार्थी हिंदी निबंध तथा कथेत्तर गद्य से परिचित होंगे।
2. निबंध की वैचारिकता का अनुशीलन कर शिक्षार्थी विचारवान बनने में सक्षम होंगे।
3. निबंधों के अध्ययन से शोधार्थी में भाषा-सौष्ठव आएगा।
4. कथेत्तर गद्य की अवधारणा से शिक्षार्थी परिचित होंगे।
5. निबंधों की भाषा-शैली से शिक्षार्थी परिचित होंगे।

Class: B.A. Second Year, Semester fourth

Name of Course: आधुनिक काव्य

Paper No : VII

1. शिक्षार्थी विविध काव्य-रूपों और विषयों की समझ के साथ आधुनिक हिंदी कविता को समझने में सक्षम होंगे।

2. आधुनिक हिंदी काव्य में अभिव्यक्ति की विभिन्न बारीकियों से शिक्षार्थी परिचित होंगे।
3. शिक्षार्थी आलोचनात्मक विश्लेषण का अध्ययन कर आधुनिक हिंदी काव्य की व्याख्या करने में दक्ष होंगे।
4. शिक्षार्थियों को हिंदी-काव्य की व्याख्या में एक निश्चित स्तर की प्रविणता होंगी।
आधुनिक हिंदी काव्य के विषय-वस्तु, कला पक्ष एवं शिल्प-शैली गत अध्ययन में शिक्षार्थी सक्षम होंगे।

Class : B.A. Second Year, Semester fourth

Name of Course: निबंध तथा कथेतर गद्य

Paper No. VIII

1. कथेतर गद्य की जीवनी, संस्मरण, रेखाचित्र, आत्मकथा, डायरी, यात्रा वर्णन, साक्षात्कार आदि विभिन्न विधाओं में शिक्षार्थी दक्ष होंगे।
2. कथेतर गद्य की भाषा-शैली से शिक्षार्थी परिचित होंगे।
3. निबंध तथा कथेतर गद्य में चिंतन-मनन कर शिक्षार्थी सृजनशील बनेंगे।
4. निबंध के अध्ययन से चिंतन-मनन की प्रवृत्ति बढ़कर शिक्षार्थी सृजनशील बनेंगे।
5. निबंध तथा कथेतर गद्य के अध्ययन से शिक्षार्थियों के अभिव्यक्ति पक्ष में निखार आएगा।

Class : B.A. Third Year, Semestor Fifth

Name of the Course : हिंदी साहित्य का इतिहास

Paper No. : IX

1. हिंदी साहित्य के बृहत् इतिहास से शिक्षार्थियों का परिचय होगा।
2. शिक्षार्थी हिंदी साहित्य के सृजन की पृष्ठभूमि से शिक्षार्थी अवगत होंगे।
3. हिंदी की साहित्यिक प्रवृत्तियों की परम्परा को शिक्षार्थी समझ सकेंगे।
4. साहित्य के माध्यम से जीवन मूल्यों एवं जीवन-दर्शन को समझने में शिक्षार्थी

सक्षम होंगे।

5. शिक्षार्थी विविध युगों के भाषाई शिल-परिवर्तनों को समझने में सक्षम होंगे।

Class: B.A.Third Year, Semester Fifth

Name of the Course: हिंदी भाषा

Paper No. X

1. हिंदी भाषा के प्रति शिक्षार्थियों में रुचि उत्पन्न होगी।
2. शिक्षार्थी हिंदी भाषा के स्वरूप को समझ सकेंगे।
3. शिक्षार्थी हिंदी भाषा के प्रयुक्ति-क्षेत्रों से परिचित होंगे।
4. हिंदी भाषा के महत्व को शिक्षार्थी समझ पाएंगे।
5. वर्तमान प्रौद्योगिकी के युग में हिंदी भाषा की उपयोगिता को शिक्षार्थी समझेंगे।
6. शिक्षार्थी हिंदी की संवैधानिक स्थिति से अवगत होंगे।

Class : B.A. Third Year, Semester Sixth

Name of the Course : साहित्यशास्त्र

Paper. No. XI

1. शिक्षार्थियों में साहित्य के प्रति शास्त्रीय दृष्टिकोण विकसित होगा।
2. साहित्य का शास्त्रीय पद्धति से अध्ययन करने में शिक्षार्थी दक्ष होंगे।
3. शिक्षार्थी आलोचना की मानवीय सहज प्रवृत्ति का साहित्यिक विश्लेषण करने में सक्षम होंगे।
4. शब्द और अर्थों के सम्बन्धों को शिक्षार्थी जान जाएंगे।
5. शिक्षार्थी साहित्य शास्त्र के महत्व को परिलक्षित करेंगे।

Class : B.A. Third Year, Semester Sixth

Name of the Course : भाषा-शिक्षण

Paper. No. XII

1. भाषाई शुद्धता एवं कुशलता के माध्यम से रोजगार के अवसर प्राप्त कराने में

शिक्षार्थी सक्षम बनेंगे।

2. शिक्षार्थी हिंदी भाषा के व्याकरणिक कोटियों को समझ सकेंगे।
3. बदलते भाषाई परिवेश में परंपरागत भाषाई मौलिकता और लोकभावनाओं को शिक्षार्थी समझेंगे।
4. शिक्षार्थी हिंदी भाषा के महत्व को समझ सकेंगे।
5. शुद्ध वर्तनी के नियमों को सीखकर शुद्ध-लेखन में शिक्षार्थी सक्षम होंगे।
6. हिंदी व्याकरण में शिक्षार्थी सक्षम होंगे।
7. शिक्षार्थी महापुरुषों के सृजनात्मक व्यक्तित्व से परिचित होंगे।

Skill Enhancement Course

Class: B.A. Second Year, Semester Third

Name of the Course: हिंदी कौशल विकास - I

Paper. No. I

1. शिक्षार्थी कम्प्यूटर-अनुप्रयोग करने में सक्षम होंगे।
2. संभाषण कौशल प्राप्त कर शोधार्थी संभाषण में दक्ष होंगे।
3. हिंदी-पत्र लेखन में शिक्षार्थी सक्षम होंगे।
4. हिंदी लेखन और संभाषण कौशल में प्राप्ति में शिक्षार्थी सफल होंगे।

Skill Enhancement Course

Class: B.A. Second Year, Semester fourth

Name of the Course: हिंदी कौशल विकास-II

Paper. No : II

1. पटकथा-स्वरूप से शिक्षार्थी परिचित होंगे।
2. प्रिंट मीडिया और इलेक्ट्रॉनिक मीडिया के लिए समाचार-लेखन की दृष्टि से शिक्षार्थी प्रशिक्षित होंगे।
3. नकदी रहित व्यवहार (Cashless Transication) करने में शिक्षार्थी सक्षम होंगे।

4. ऑन लाईन आर्थिक-व्यवहार में शिक्षार्थी दक्ष होंगे।

Skill Enhancement Course

Class: B.A. Third Year, Semestor Fifth

Name of the Course : हिंदी कौशल विकास-III.

Paper. No III

1. सिनेमा, दूरदर्शन, रेडियो की पटकथा लेखन-विधि से शिक्षार्थी परिचित होंगे।
2. हिंदी भाषा कौशल के श्रवण, वाचन, लेखन माध्यमों के प्रयोग में शिक्षार्थी दक्ष होंगे।
3. हिंदी लेखन में शुद्धता लाने में शिक्षार्थी सक्षम होंगे।

Skill Enhancement Course

Class B.A. Third year, Semestor Sixth

Name of the Course: हिंदी कौशल विकास- IV

Paper No. IV

1. प्रिंट मिडीया एवं इलेक्ट्रॉनिक मिडीया के विज्ञापन-क्षेत्र से शिक्षार्थी परिचित होंगे।
2. हिंदी में पावर-पॉइंट निर्माण एवं संचालन तथा एम. एस. वर्ड, एक्सलशीट निर्माण विधि से परिचित होकर शिक्षार्थी प्रयोग में दक्ष होंगे।
3. इंटरनेट-यु-ट्यूब, ब्लॉग लेखन जैसे समाज माध्यमों के प्रयोग में शिक्षार्थी सक्षम होंगे।

POLITICAL SCIENCE

Class B.A.I (Sem – I)

Name of the Course – Introduction of Political Concepts

Paper No – I

1. Students will understand the basic Political concepts by standing the course.
2. Students will be able to solve the Political problems by standing this course.
3. Students will acquire the judgment power by standing the various Political ideas, concepts and other Political issues concern with Politics..

Class B.A.I (Sem – I)

Name of the Course – Government and Politics of Maharashtra

Paper No – II

1. Students will understand the formation, Government and other Political issues concern with Maharashtra Government.
2. Students will be to solve the Political problems by studying this course.
3. Students will acquire to understand various Political issues, Political process and Political activity.
4. Students get various political ideas concern with state Government and other relevant Political issues.

Class B.A.I (Sem – II)

Name of the Course – Introduction of Political Concepts

Paper No – III

1. Students will understand the basic Political concepts by standing the course.
2. Students will be able to solve the Political problems by standing this course.
3. Students will acquire the judgment power by standing the various Political ideas, concepts and other Political issues concern with Politics.

Class B.A.I (Sem – II)

Name of the Course – Government and Politics of Maharashtra

Paper No – IV

1. Students will understand the formation, Government and other Political issues concern with Maharashtra Government.
2. Student will be to solve the Political problems by studying this course.

3. Pupils will acquire to understand various Political issues, Political process and Political activity.
4. Student get various political ideas concern with state Government and other relevant Political issues.

Class B.A.II (Sem – III)

Name of the Course – Indian Government and Politics

Paper No – V

1. Students will be able to understand the terms of partition and how princely states were integrated.
2. They will come to know the importance of the Preamble in the constitutional design of India.
3. The students will be able to understand and apply different approaches to explain the functioning of different types of governing regimes.
4. They will be able to answer how constituent assembly decided about our National flag, National song, and Anthem and how debates unfolded on National language and Minority rights in the Constitution.

Class B.A.II (Sem – III)

Name of the Course – International Relations

Paper No – VI

1. Students will have develop theoretical insights on international relations and global politics.
2. Students will be awareness about the global International Politics with Key concepts, approaches and Political Institutions like UNO.
3. It will also helps students to prepare themselves for competitive exams like UPSC, MPSC Railway, Staff Selection etc.
4. Moreover it will build career like Political analyst Media, Professionals and Ideal Politicians.

Skill Enhancement Course (SEC)

Class B.A.II (Sem – III)

Name of the Course – Basic Information and Preparation Skills for

Competitive Examination - I

Paper No – I

1. It will help students to eradicate fear of competitive examinations.

2. Students will develop skills to pass the competitive examination.
3. Students will know that acquisition of knowledge is a matter of vast study and voracious reading.
4. Students will understand the difference and co-ordination between legislature and bureaucracy.

Class B.A.II (Sem – IV)

Name of the Course – Indian Government and Politics

Paper No – VII

1. The students would be able to explain different approaches to politics and build their own understanding of politics.
2. They will be able to make a distinction between nation and state.
3. They will be able to answer why the state plays so much central place in the discourses on politics.
4. It will also go a long way in building Democracy and mass awareness among with about Indian Constitutions with their Fundamental Rights and Duties.
5. They will be made aware of the role of new media and technology involved in election campaign

Class B.A.II (Sem – IV)

Name of the Course – International Relations

Paper No – VIII

1. Familiarization with the key concepts of the discipline of IR.
2. Understanding of linkages between Classical Realism and Classical Geopolitics.
3. Comprehensive understanding of the key assumptions and arguments of the mainstream IR .
4. Appreciation of what is Global IR and why non-western perspectives are needed

Skill Enhancement Course (SEC)

Class B.A.II (Sem – IV)

Name of the Course – Basic Information and Preparation Skills for Competitive Examination - II

Paper No – II

1. It will help students to eradicate fear of competitive examinations.
2. Students will develop skills to pass the competitive examination.
3. Students will know that acquisition of knowledge is a matter of vast study and voracious reading.
4. Students will understand the difference and co-ordination between legislature and bureaucracy.

Class B.A.III (Sem – V)

Name of the Course – Indian Political Thought

Paper No – IX

1. It deals with the writings and thoughts articulated by Indian thinkers from the ancient till the modern period.
2. The course will also enable the student to understand the emergence and articulation of socio-political issues such as statecraft, nationalism, socialism, *satyagraha*, *swadeshi* etc.
3. It helps the students to understand the importance of equality of different cultures.

Class B.A.III (Sem – V)

Name of the Course – Western Political Thinker

Paper No – X

1. Understand the classical tradition of western political thought and grasp its relevance through a historical comparative approach.
2. Understand the continuity and growth in western political thought in the socio-economic and historical- political contexts of the respective times.
3. Perceive the unfolding of modernity through the stages of evolution of western political thought.
4. Build their own thought process through a perception of political ideas evolving through the western classical tradition.

Skill Enhancement Course (SEC)

Class B.A.III (Sem – VI)

Name of the Course – Indian Parliamentary Procedure

Paper No – III

1. This paper will helpful and encourage students to know the actual working of the houses the sittings
2. The role of the presiding officers, the Question Hour.

Class B.A.III (Sem – VI)

Name of the Course – Political Ideology

Paper No – XI

1. Understand the differences between various political ideologies.
2. Understand the evolution and changing nature of ideologies.
3. Realize the relevance and impact of political ideologies on the actual political process.

Class B.A.III (Sem – VI)

Name of the Course – Modern Political Analysis

Paper No – XII

1. Use the conceptual tools to study and understand politics scientifically and systematically.
2. Appreciate the approaches and basic concepts for the study of modern political analysis.
3. Understand the interdisciplinary nature of the sub-discipline.
4. Connect with the non-institutional processes of politics.

Skill Enhancement Course (SEC)

Class B.A.III (Sem – V)

Name of the Course – Indian Democracy & Good Governance

Paper No – IV

1. Understand the significance of democratic values.
2. Realize the importance of the rule of law in the functioning of true democracy.
3. Realize the significance of the roles of citizens, administrators and policy makers in making democracy effective.
4. This Course will helpful and encourage students to Acknowledge about Good Governance.

HISTORY

Class B.A First Year (Sem. I)

CCHIS -I History of Ancient India (Up to 647AD)-I

- 1) This paper will help the students to know the archaeological & literary sources.
- 2) Students will know about the great kings in ancient India.
- 3) Students will study the different religion.
- 4) Students will study the process of decline of great dynasties

Class B.A First Year (Sem. I)

CCHIS –II History of India (648 To 1526AD)-II

- 1) To understand the historical events from
- 2) To understand the archaeological& literary sources.
- 3) To develop a broad view about various dynasty.
- 4) To create an interest among the students about Muslim invasions and dynasties.

Class B.A First Year (Sem. II)

CCHIS –III History of Ancient India (Up to 647AD)-III

- 1) Know about the Mauryan Empire.
- 2) Observe socio-economic, religious situation under the Maurya.
- 3) Comprehend about the Gupta period.
- 4) Know the History of Satvahanas, Shungas, Kushans, and Hunas

Class B.A First Year (Sem. II)

CCHIS –IV History of India (648 to 1526AD)-IV

- 1) To understand the Muslim invasion.
- 2) Get Knowledge of territorial expansion of sultanate period.
- 3) Understand the empires emerged in Deccan.
- 4) Comprehend about the important sultans.

Class B.A Second Year (Sem. III)

HIS-I Chhatrapati Shivaji and His Times (1630A.D. to 1707 A.D.) –V

- 1) Realize the importance of Sources of Maratha history.
- 2) Understand the motivation of the foundation of swarajya.

- 3) Know about the administrative need and the importance of grand coronation of Chhatrapati Shivaji.
- 4) Know more about great personality & qualities of Chhatrapati Sambhaji Maharaj
- 5) Understand the significance of war of independence.

Class B.A Second Year (Sem. III)
HIS-I History of India (1707-1757)-VI

- 1) To help students to know the expansion of Mughal Empire.
- 2) The Students will know about the great kings in this period.
- 3) The Students study the governor Generals policy.
- 4) The students will study the process of Mughal kings and British Governors.

Class B.A Second Year (Sem. III)
SEC I Tourism

- 1) Students will know about the concept of Tourism
- 2) This will help the students to learn the government policies regarding Tourism.
- 3) It will help the students to learn more sectors related to Tourism.

Class B.A Second Year (Sem. IV)
HIS-I - Chhatrapati Shivaji and His Times (1630A.D. to 1707 A.D.) –VII

- 1) Understand the formation of welfare state during the Maratha rule
- 2) Understand the industrial and agricultural aspects of Chhatrapati Shivaji Regime
- 3) Understand the administrative aspect of the Swarajya.
- 4) Able to introduce the Socio-economic and Cultural History of Maratha period.
- 5) Able to understand rural economy and its developments in society.
- 6) Able to assess the cultural developments in Medieval India.

Class B.A Second Year (Sem. IV)
HIS-II History of India (1757-1856)-VIII

- 1) Student will understand the nature, policies and administration of British Rule in India.
- 2) Intended to comprehend the colonial rule in India.
- 3) Students will get acquainted with economic concepts of 19 th century.
- 4) Student will be able to explain the causes and development of Nationalism

Class B.A Second Year (Sem. IV)
SEC II Tourism

- 1) Student will understand role of history in Tourism sector.
- 2) Student will appreciate the art & architecture of local level.
- 3) Student will know the importance of history museum.

Class B.A Third Year (Sem. V)
DSE-HIS I History of Modern India-IX

- 1) Students will acquire the spirit of healthy Nationalism & Secularism.
- 2) Students will get knowledge of History of freedom movement of India
- 3) Students get acquainted with fundamental aspects of Modern Indian History.
- 4) To understand major events of Indian freedom struggle.

Class B.A Third Year (Sem. V)
DGE-HIS II Social Reformers in Maharashtra & Awakening Movements -X

- 1) To aware the students to know the contribution of Social Reformers.
- 2) To contribute constructively towards the building of society.
- 3) To make preparation for competitive examinations.
- 4) To maintain the social harmony.
- 5) To know the legacy of the great social reformers and thinkers

Class B.A Third Year (Sem. V)
SEC- III -Appreciation of Art

- 1) Understand the importance of past in exploration of present context.
- 2) Student will familiarize about the use and importance of various Historical Fields.
- 3) Student will Understand and appreciate its multiplicity and its aesthetic prosperity

Class B.A Third Year (Sem. VI)
DSE-HIS II History of Modern India-XII

- 1) This paper will create awareness of the events of freedom struggles in India
- 2) This paper will create awareness about the works of freedom fighters of India
- 3) Student will understand the processes of rise of modern India.
- 4) Students will get thorough knowledge of various acts of 19 th & 20 th century.

Class B.A Third Year (Sem. VI)
DGE-HIS II Social Reformers in Maharashtra & Awakening Movements -XI

- 1) To enable the student to reinterpret the Indian socio-religious scenario.
- 2) Student will understand the role of Socio Religious Reformers in the development of 19th century of Maharashtra.
- 3) To contribute constructively towards the building of society.
- 4) To maintain the social harmony.

Class B.A Third Year (Sem. VI)
SEC - IV -Appreciation of Art

- 1) Student will appreciate the art & architecture.
- 2) It will help to increase the regional tourism.
- 3) Student will understand the meaning and historical importance of archaeology anthropology, archaeological sites.

SOCIOLOGY

Class B.A First Year (Sem. I)

CCSOI-I - Introduction to Sociology-I

- 1) Student will be able to demonstrate on understanding of how social call affects individual life.
- 2) To understand society in context of the sociology theory.
- 3) Attitudes and behaviors and the wider society and culture.
- 4) The student learn basic concept of sociology and acquire scientific knowledge.

Class B.A First Year (Sem. I)

CCSOI -II - New Changes in Social Institution-II

- 1) Students will obtain a sociological understanding of diverse:
- 2) Social groups: organization and social institutions.
- 3) Social institutions are usually conceived of as the basic focuses of social organization.
- 4) Common to all societies.

Class B.A First Year (Sem. II)

CCSOI-I - Basic concepts in Sociology- III

- 1) To understand the basic concepts in sociology and their fundamental theoretical interrelationship.
- 2) Such that students will be able do office.
- 3) Gives examples, show interrelationships and demonstrate the relevance.

Class B.A First Year (Sem. II)

CCSOI -II - Contemporary Social Institutions –IV

- 1) Institutions can refer to mechanism of social order: which govern the behavior of set of individuals within a given community.
- 2) Moreover: institutions are identified with social purpose.
- 3) Transcending individuals and intention by mediating the rules that govern living behavior.
- 4) Debates about the social impact of sociology have been historically centered.

Class B.A Second Year (Sem. III)

CCSOI-I - Indian Society: Structure and Change-V

- 1) Sociologists are typically motivated by the desire to better understand the principles of social life and by the conviction that understanding these principles may aid in the formulation of enlightened and effective social policy. India is a land of diverse religions.
- 2) Social Structure of India underwent some changes. The Indian society in the recent past, particularly since the Independence.
- 3) There are two main forms of social stratification caste and class both are the agencies of social mobility and selection.
- 4) They decided largely the position that man occupies in society Democracy is very much linked with modernization. Secularism and National integration are soul of India.
- 5) This course gives insights about social change in India.

Class B.A Second Year (Sem. III)

CCSOI-II - Human rights & Social Justice-VI

- 1) Principles of human rights are fundamental rights.
- 2) Justice is the concept of fairness.
- 3) Social Justice and human rights have a shared goal human dignity, equally for all.
- 4) The issues that make social justice difficult to achieve, such as poverty, exclusion and discrimination are in direct contradiction with human rights, which apply to all individuals indiscriminately.
- 5) Human rights can help to fight indignity.
- 6) In addition to promoting equality generally human rights protect against direct and indirect discrimination based on certain characteristics.
- 7) Human rights provide legal framework that allows individuals to hold government to account and requires the state to create conditions necessary for the achievement for social justice.

Class B.A Second Year (Sem. III)

SEC - I - Personality Development

- 1) Personality Development course will polish students presentation and communication skill and proper to successful career.

- 2) Apply the understanding of communication skill into everyday practice and understanding the importance of human life.

Class B.A Second Year (Sem. IV)

CCSOI-I - Issues and Problems in Indian Society – VII

- 1) Thomas pain address the individual's duty to "allow the same right to other as we allow ourselves." A social issue is a problem that influences many citizens within a society and one that many people strive to solve.
- 2) It is often the consequence of factors extending beyond an individual's.
- 3) After studying this course students should able to illustrate what is a social about social science.
- 4) Demonstrate how certain social concretion become dominate.
- 5) Distinguish how labeling something can create excretion about behavior and action

Class B.A Second Year (Sem. IV)

CCSOI-II - Neo-Social Movement -VIII

- 1) Social movements are a type of group action.
- 2) The knowledge obtained in this social movement was valuable because they could use it for the cause.
- 3) Social movements play such an important role in bringing about social change in political, religious, educational, health, corporate, government and other institutional areas.
- 4) Finally learning outcomes in social movements more rewarding than other learning outcomes because the outcome includes a direct impact on social change.

Class B.A Second Year (Sem. IV)

SEC - II - Time Management

- 1) When you are aware of what you need to do, you are able to better manage things.
- 2) Students understanding the how to set SMART (specific, measurable, action oriented, realistic and timely) goals and work toward accomplishing those goals by self-reflection and self - monitoring

Class B.A Third Year (Sem. V)

DSE SOCI DSE-A - Classical Sociological Thinkers-IX

- 1) Sociology is branch of social sciences that uses systematic methods.

- 2) This course is to provide to the sociology students with the understanding of sociological theory.
- 3) To train students for the application of these theories to social situations, acquaintance with the writing of these four thinkers, so as to equip the students with theoretical insights to know analysis and interpret the social scenario around them.
- 4) An attempt to familiarize students with the different sociological perspectives and theories.

Class B.A Third Year (Sem. V)
DGE SOCI GE-A - Methods of Social Research –X

- 1) This course has importance in the field of sociological research. Research methodology will be providing base for scientific thinking and rationalizing the minds, thoughts of students.
- 2) This course has major aims to provide basic and fundamental knowledge of research methodology. This paper provides conceptual objectives, tools and techniques of research methodology.
- 3) This course has also significance in providing scientific attitude and temper among the student of social sciences in general sociology in particular by doing this course, students will get job opportunities the research institutions, teaching, research field corporate and marketing sector.

Class B.A Third Year (Sem. V)
SEC - III - Social Counselling

- 1) How should I live my life? and what should I do next?" These are the philosophical moral question, and the social counseling is designed to address in active and constructive ways.
- 2) Good counseling helps student to build skill, they can use in solving their problems.
- 3) Counseling is important because it gives the opportunity and offer a positive benefits which can enhance person life.

Class B.A Third Year (Sem. VI)
DSE SOCI DSE-B - Classical Sociological Thinkers - XI

- 1) This course has multiple utilities. This course will help students to introduce the philosophy, thoughts, views and works of social reformer of India.

- 2) This course has aim to orient the students of sociology towards the contribution of modern social reformers of India who spent their entire life for the cause of social reforms.
- 3) This course would help to enlighten the understanding the importance of the thoughts of social reformers to understand the contemporary social ills, issues, problems and challenges.
- 4) Thus, this course has sociologically relevance to inculcate these ideas & thoughts of the reformers in the minds of the young students and make them thought for the cause of social reformers.
- 5) The teaching and reading of the thoughts and ideas of reformers contributed on building up the capacities of the young generation of the country.
- 6) Therefore, this course has still relevance to follow these thoughts of reformers to bring out social reforms in the contemporary society

Class B.A Third Year (Sem. VI)
DGE SOCI GE-B - Techniques of Social Research- XII

- 1) This course has importance in the field of sociological research.
- 2) Research methodology will be providing base for scientific thinking and rationalizing the minds, thoughts of students.
- 3) This course has major aims to provide basic and fundamental knowledge of research methodology. This paper provides conceptual objectives, tools and techniques of research methodology.
- 4) This course has also significance in providing scientific attitude and temper among the student of social sciences in general sociology in particular by doing this course, students will get job opportunities the research institutions, teaching, research field corporate and marketing field.

Class B.A Third Year (Sem. VI)
SEC - III - Social Counseling

- 1) “How should I live my life? and what should I do next?” These are the philosophical moral question, and the social counseling is designed to address in active and constructive ways.
- 2) Good counseling helps student to build skill, they can use in solving their problems.

3) Counseling is important because it gives the opportunity and offer a positive benefits which can enhance person life.

ECONOMICS

Class – B. A. I (Sem. I)

Name of the Course – Micro Economics-I (Compulsory)

Paper No – I

1. Student's ability will be utilized to tackle the current economic problems
2. Students will be able to adept more knowledge in the field of modern economics by studying this course.
3. This course will increase the utility and application of students to acquire more satisfaction in life
4. Students will be able to evaluate the various microeconomic theories

Class – B. A. I (Sem. I)

Name of the Course – Economy of Maharashtra -I (Optional)

Paper No – II

1. Awareness will be created Among Students about development in economy of Maharashtra
2. Students will able to understand the various challenges of Economy in Maharashtra.
3. Students will able to study the Problems of economy in Maharashtra.
4. Students will be able to enhance the different concepts of economy in Maharashtra.

Class – B. A. I (Sem. II)

Name of the Course – Micro Economics-II (Compulsory)

Paper No – III

1. Student will be able to get the knowledge about Production, Cost and Revenue.
2. Students will be able to acquaint with the various markets from the point of view of competition.
3. This course will be helpful to students to realize the actual market through competitive point of view.

Class – B. A. I (Sem. II)

Name of the Course – Economy of Maharashtra -II (Optional)

Paper No – IV

1. Awareness among the students will be created about development in economy of Maharashtra.

2. Students will be able to understand the various challenges of Economy in Maharashtra.
3. Students will be able to studying the problems of economy in Maharashtra.
4. Students will be able to enrich with the different concept of economy in Maharashtra.

Class – B. A. II (Sem. III)

Name of the Course – Macro Economics-I (Compulsory)

Paper No – V

1. Students will enable to understand and comment upon real economic issues like inflation, money supply, GDP and their interlinkages
2. Students will be able to Explain National income aggregate and the role of money in modern economy
3. Students will be able to evaluate the role of government expenditure in the economy

Class – B. A. II (Sem. III)

Name of the Course – Economics of development (Optional)

Paper No – VI

1. Students will be able to understand the concept of development from many dimensions.
2. Learners will be aware of the different approaches towards development.
3. Students will be able to understand different government scheme in the process of economic development.
4. Course will enable students with the current scenario of development among different countries.

Skill Enhancement Course (SEC)

Class – B. A. II (Sem. III)

Name of the Course –Cashless Transaction – SEC-ECO-I

Paper No – I

1. Learners will be able to discuss Banking systems inexistence and how they are structured
2. Learners will be able to explain the relative importance of new modes of payments (cashless) in transactions.

3. Learners will be able to discuss the main types of cashless instruments and the main techniques employed by banks.
4. Learners will be able to get the basic knowledge of Money and Banking systems

Class – B. A. II (Sem. IV)

Name of the Course – Macro Economics-II (Compulsory)

Paper No – VII

1. Students will be able to analyze the globalized world economic issues in a rational manner.
2. Students will enable to understand and comment upon real economic issues like employment.
3. Students will be able to understand the basic analytic framework and models of banking system in a gradual manner.
4. Students will be able to explain the concept and determinates of inflation

Class – B. A. II (Sem. IV)

Name of the Course – Economics of Development & Environment (Optional)

Paper No – VIII

1. Students will be able to understand the Environmental Concept.
2. Students will be able to know the role of environment in the process of development.
3. Students will be able to have an idea about sustainable development & natural resource management.
4. Learners will be able to familiar with the concept and theories of welfare

Skill Enhancement Course (SEC)

Class – B. A. II (Sem. IV)

Name of the Course – Data Collection – SEC-ENG-II

Paper No – II

1. Learner will be able to demonstrate his/her understanding of sampling methods and the ability to use collection of data
2. Learner will be able to identify the appropriate sample techniques for different kinds of research questions
3. Learner will be able to identify the appropriate source of data in relation to the collection of research data.

4. Learner will be able to classify and present the collected data in the form of graph, bar diagram, chart etc.

Class – B. A. III (Sem. V)

Name of the Course – Industrial Economics (Optional) DSE-ECO-IX

Paper No – IX

1. Students will be able to know why the entrepreneurs choose specific locations to establish the industries
2. Students will be able to aware about the importance of MNCs in Indian Industrial Economy
3. Students will be able to get knowledge of some large industries, agro-based and small-scale Industries
4. Students will be able to learn about the changes in Industrial Policy of India

Class – B. A. III (Sem. V)

Name of the Course – Indian Economy (Compulsory) EG-ECO-X

Paper No – X

1. Student will be able to suggest various measures to policy makers for solution of economic problem
2. Student will be able to know more about opportunities offered by Indian Economy.
3. Student will be able to identify the demographic features of the Indian economy
4. Student will be able to assess the causes and measures of poverty inequalities and unemployment

Skill Enhancement Course (SEC)

Class – B. A. III (Sem. V)

Name of the Course – Financial Inclusion & Financial Literacy – SEC-ECO-III

Paper No – III

1. Student will be able to create their own financial plan and their own budget
2. Student will be able to propose a personal saving and Investment plan
3. Student will be able to examining how their choice of carrier and lifestyles will affect their financial plan
4. Student will be able to aware about financial inclusion and financial literacy

Class – B. A. III (Sem. VI)

Name of the Course – International Economics (Optional) DSE – ECO - XI

Paper No – XI

1. Student will be able to know the balance of payments accounting and the valuation effect.
2. Student will be able to understand the policy tools available to government that can be applied to international trade.
3. Student will be able to analyze the impact of international trade on the economy.

Class – B. A. III (Sem. VI)

Name of the Course – Public Finance - GE – ECO - XII

Paper No – XII

1. Student will able to analyze different concept of public finance.
2. Student will able to understand the imbalance between public revenue and public expenditure.
3. Students will be able to suggest various measures to decrease deficit.
4. Student will be able to evaluate working of recent finance commission

Skill Enhancement Course (SEC)

Class – B. A. III (Sem. VI)

Name of the Course – Entrepreneurship Development- SEC-ECO-IV

Paper No – IV

1. Student will be able to understand the concept of entrepreneurship and its functions.
2. Student will be able to describe the process of entrepreneurship and the competencies of an entrepreneur.
3. Student will be able to understand the meaning and ways of generating ideas and able to prepare a business plan.
4. Student will be able to understand the reasons for success and failure of a business plan.

PUBLIC ADMINISTRATION

B. A. First Year Semester - I

Course - BPA-101

Name of the Course - Basic Principles of Public Administration

- Explain basic concept of Public Administration, Meaning, Nature and Scope of Public Administration.
- Describe the types of Administration.
- Explain basic concept of Organization, its Meaning, Bases, Types, of Organization.
- Describe the Principles of organization.
- Explain important concepts of Public Administration.

B. A. First Year Semester - I

Course - BPA-102

Name of the Course - District Administration

- Focus on evolution and Importance of District Administration in India.
- Explain Role, Power and Functions of District Collector.
- Describe Law and Order setup.
- Describe key posts in District Administration. • Describe Statutory and non-statutory bodies.

B. A. First Year Semester - II

Course - BPA-103

Name of the Course - Administrative Organization and Its Principles

- To promote understanding of the political, social, legal, and economic environments in which public organizations operate
- To provide understanding of, and insight into, the nature of the administrative process and bureaucratic behaviour, leadership, and decision making

B. A. First Year Semester - II

Course - BPA-104

Name of the Course - Administrative System of Maharashtra State

- Explain formation of Maharashtra State.
- Describe silent features of Maharashtra Administration.
- Explain the Maharashtra administration setup.

- Draw the structure of Maharashtra administration i.e., State Executive, State Legislature and State Judiciary
- Describe Statutory and non-statutory bodies.
- This course attempts to enable the students to understand the complex nature of organization behaviour, conflicts and challenges in the organizational setting.

B. A. Second Year Semester - III

Course - BPA-105

Name of the Course - Personnel Administration

- Explain Importance and aspect of Personnel Administration.
- Explain Public Services in India i.e. All India Services, Central and State Services.
- Describe Training and Training Instructions.
- Describe problems of Personnel Administration and grievance redressal setup in India.

B. A. Second Year Semester - III

Course - BPA-106

Name of the Course - Rural Local Government

- Focus on evolution of Panchyatraj in India. • Explain Constitutional Framework for Panchyatraj in India.
- Explain the salient features of 73 rd Constitutional Amendment.
- Explain the Panchyatraj System in Maharashtra.
- Analyze role of Panchyatraj and rural development agency in Rural Development.

B. A. Second Year Semester - III

Course - SEC-PA1

Name of the Course - E-Administration

- The course will help to the students learn about the basic elements of E-Administration.
- It will provide knowledge of E-devices in Public Administration.
- Awareness of the basic E- administrative system as well as various issues in E-administration.

B. A. Second Year Semester - IV

Course - BPA-107

Name of the Course - Financial Administration

- Explain importance of Financial Administration.
- Explain concept and principles of good budgeting.
- Describe monitoring system of budgetary process.
- Describe the Principles of organization.
- Explain important concepts of Public Administration.

B. A. Second Year Semester - IV

Course - BPA-108

Name of the Course - Urban Local Government

- Explain concept of Urban Development.
- Explain Constitutional Framework for Urban Local Self Government in India.
- Explain the salient features of 74 rd Constitutional Amendment.
- Explain the Urban Local Self Government institutions.
- Analyze role of Urban Development Agencies in urban development.

B. A. Second Year Semester - IV

Course - SEC-PA2

Name of the Course - Administrative Skill

- The course will aid the students to develop their personality.
- It will introduce them about the functioning of the Administrator in Public Administration.
- It will make the students aware of the various issues in Public Administration.

B. A. Third Year Semester - V

Course - BPA-109

Name of the Course - Indian Administrative Thinkers

- Explain the Indian administrative philosophies by different administrative thinkers.
- Analyze the principle and theories for the different organizational setup.
- Apply the principles and philosophies in the administration of organization.
- Compare the philosophies of administrative thinkers in India and overseas.
- Describe the growth of public administration based on the Indian philosophical thoughts.

B. A. Third Year Semester - V

Course - BPA-110

Name of the Course - Indian Administration

- This course intends to familiarize students with the nature of the Indian Constitution, Form and organs of Government, Federalism, Decentralization and Devolution, Electoral System and their relationship.
- The paper attempts to make the students understand the system of Indian Administration and Governance. Students will be able to understand the basic Structure, Function and Behaviour of Indian Administration.

B. A. Third Year Semester - V

Course - SEC-PA3

Name of the Course - Disaster Management

- The Course Introduce and Provides Knowledge of Disaster Management
- To understand the role of various factors in Disaster Management.

B. A. Third Year Semester - VI

Course - BPA-111

Name of the Course - Western Administrative Thinkers

- To provide basic Knowledge of administrative theories.
- To understand the western administrative theory.
- To familiarize the students with basic Knowledge administrative thoughts.

B. A. Third Year Semester - VI

Course - BPA-112

Name of the Course - Indian Constitution & Administration

- To introduce Indian constitution.
- To know fundamental rights.
- To study Indian government.
- To understand budgetary process.

B. A. Third Year Semester - VI

Course - SEC-PA3

Name of the Course - Administration of N.G.O.

- To Provides Knowledge of Non-Government Organization and their Administration.
- To understand the work of N.G.O's in Nation building.
- The ability of Students to understand the Non-Government organization and its works.

M. A. MARATHI

M.A. Marathi I Semester - I

स्वातंत्र्यपूर्व काळातील मराठी वाङ्मयाचा इतिहास -I (इ.स. 1818 ते इ.स. 1947)

1. मराठी पदव्युत्तर अभ्यासक्रम पूर्ण करतांना प्रगल्भ व्यक्तिमत्व निर्माण होण्यासाठी मदत होते.
2. स्पर्धा परीक्षांच्या तयारीसाठी मराठी वाङ्मयाचा अभ्यास उपयुक्त ठरतो.
3. स्वातंत्र्यपूर्व काळातील सांस्कृतिक वाङ्मयीन व ऐतिहासिक पार्श्वभूमीचे आकलन होते.
4. आधुनिक काळातील मराठी वाङ्मयीन वारसा जतन करता येतो.
5. मराठी लेखनातील ठळक प्रवृत्ती, ग्रंथकार आणि साहित्यकृती या अनुषंगाने साहित्याचा अभ्यास होतो.

M.A. Marathi I Semester - I

ऐतिहासिक भाषाविज्ञान - II

1. मराठी भाषेचा इतिहास समजून घेता येतो.
2. बोलीविषयीचे गैरसमज दूर होतात.
3. भाषा अभ्यासाच्या विविध दृष्टिकोनांचा परिचय होतो.
4. स्वभाषेकडे पाहण्याची नवी दृष्टी विकसित होते.

M.A. Marathi I Semester - I

वाङ्मय प्रकारांचा अभ्यास: कथा आणि कादंबरी - III

1. कथा आणि कादंबरीच्या अभ्यासातून जीवनदर्शन होते.
2. समकालीन सामाजिक प्रश्न समजून घेण्यास मदत होते.
3. लेखकाच्या लेखनशैलीचे स्वरूप समजून घेण्यास मदत होते.
4. कथा आणि कादंबरी या वाङ्मय प्रकाराविषयी अभिरुची विकसित होण्यास आधार मिळतो.
5. नवोदित लेखकांना लेखनासाठी प्रेरणा मिळते.

M.A. Marathi I Semester - I

लोकप्रिय साहित्य - IV

1. लोकप्रिय साहित्य या संकल्पनेविषयी गैरसमज दूर होतात.
2. लोकप्रिय आणि बाजारु यातील अंतर लक्षात येते.
3. श्रेष्ठ अभिजात साहित्याची लोकप्रियता आणि तिचे निराळेपण समजते.
4. मराठी समाजाच्या अभिरुचीचे आकलन होते.

M.A. Marathi I Semester - II

स्वातंत्र्योत्तर काळातील मराठी वाङ्मयाचा इतिहास – V (इ.स. 1947 ते इ.स. 2010)

1. मराठी पदव्युत्तर अभ्यासक्रम पूर्ण करताना प्रगल्भ व्यक्तिमत्व निर्माण होण्यासाठी मदत होते.
2. विविध स्पर्धा परीक्षांच्या तयारीसाठी मराठी वाङ्मयाचा अभ्यास उपयुक्त ठरतो.
3. स्वातंत्र्यपूर्वकालीन सांस्कृतिक, वाङ्मयीन व ऐतिहासिक पार्श्वभूमीचे आकलन होते.
4. आधुनिक काळातील मराठी वाङ्मयीन वारसा जतन करता येतो.

5. मराठी लेखनातील ठळक प्रवृत्ती, ग्रंथकार आणि साहित्यकृती या अनुषंगाने साहित्याचा अभ्यास करता येतो.

M.A. Marathi I Semester - II

वर्णनात्मक भाषाविज्ञान – VI

1. भाषेच्या अंतःसुत्रांचा परिचय होतो.
2. मराठी भाषेचे सूक्ष्म आकलन होते.
3. भाषाविज्ञानातील जागतिक संकल्पनांची ओळख होते.
4. भाषा अभ्यासाच्या नवीन विविध दृष्टिकोनांचा विकास होतो.

M.A. Marathi I Semester - II

वाङ्मय प्रकारांचा अभ्यास: कविता आणि नाटक – VII

1. नाटक आणि कविता या वाङ्मय प्रकाराची वैशिष्ट्ये लक्षात येतात.
2. मराठीतील विशिष्ट वाङ्मय प्रकारांची वाटचाल योगदान व वेगळेपण समजते.
3. विशिष्ट कलाकृतीचे साहित्य इतिहासातील स्थान कसे निश्चित होते ते समजते.
4. निवडक कलाकृतींचा सूक्ष्म पातळीवरील अभ्यास करता येतो.

M.A. Marathi I Semester - II

सामाजिक दृष्टिकोनातून साहित्याचा अभ्यास – VIII

1. साहित्याकडे पाहण्याची सामाजिक दृष्टी विकसित होते.
2. विविध वाङ्मयीन सैध्दांतिक वादांचा, तात्विक संकल्पनांचा अभ्यास होतो.
3. साहित्यकृतीची समीक्षा करण्याची नवी भूमिका विकसित होते.
4. मराठी समाज आणि मराठी साहित्य यांच्या अंतःसंबंधांचे आकलन होते.

M.A. Marathi II Semester - III

साहित्य समीक्षाशास्त्र- IX

1. साहित्याचे स्वरूप, प्रयोजने आणि निर्मिती प्रक्रिया, प्रयोजने आणि निर्मिती प्रक्रिया यांचा अनुबंध लक्षात येतो.
2. साहित्याची भाषा आणि आस्वाद प्रक्रिया समजून घेता येते.
3. साहित्य आणि समाज अनुबंध उलगडता येतो.
4. साहित्याचे आकलन, मूल्यमापन आणि विश्लेषण करण्याची समीक्षा दृष्टि निर्माण होते.

M.A. Marathi II Semester - III

सामाजिक भाषाविज्ञान- X

1. सामाजिक भाषाविज्ञान या अभ्यासशाखेचा परिचय होतो.
2. भाषा आणि सामाजिक व्यवहार यातील आंतरसंबंधांचा अभ्यास होतो.
3. संदर्भानुसार व परिस्थितीनुसार भाषेत दिसून येणाऱ्या भेदांचा अभ्यास होतो.
4. सामाजिक संज्ञापण प्रक्रियेतील भाषा संपर्काचे स्वरूप कळते.

M.A. Marathi II Semester - III

साठोत्तरी वाङ्मयीन प्रवाह- XI

1. साहित्य प्रवाहाच्या संकल्पनेची ओळख होते.
2. विविध साहित्य प्रवाह आणि साहित्यिक यांचे मूल्यमापन कसे करावे याबाबत दृष्टिकोन विकसित होतो.
3. विशिष्ट लेखकाची स्थाननिश्चिती कशी करावी याचे आकलन होते.
4. साहित्य चळवळीच्या उदयाची कारणमीमांसा करता येते.
5. विशिष्ट लेखकांचे योगदान तपासता येते.

M.A. Marathi II Semester - III

एका लेखकाचा अभ्यास – मध्ययुगीन- संत तुकाराम - XII

- 1 संत तुकारामांच्या समकालीन परिस्थितीचे अवलोकन करता येते.
- 2 संत तुकारामांची चरित्रात्मक माहिती प्राप्त होते.
- 3 अभंग या काव्यछंद प्रकाराचा परिचय होतो.
- 4 संत तुकारामांच्या अभंग रचनेतील वैविध्यपूर्णतेचा परिचय होतो.
- 5 मध्ययुगीन मराठी कवितेचे निखळ सौंदर्य समजून घेता येते.

M.A. Marathi II Semester- IV

समीक्षा पध्दती आणि साहित्य संशोधन - XIII

1. साहित्य, समाज, संस्कृती आणि वाङ्मयीन प्रवाह, प्रवृत्ती यांच्या सखोल आणि परिपूर्ण अध्ययन-अध्यापन आणि समीक्षा व संशोधनासाठी महत्वाचे ठरते.
2. समीक्षा व संशोधन संदर्भात सत्यशोधन व मूल्यमापन करता येते.
3. साहित्यिक, कलावंत, समाज आणि संस्कृती यांचा अनुबंध लक्षात घेण्यासाठी साहित्य व संशोधन पध्दतींची गरज लक्षात येते.

M.A. Marathi II Semester- IV

मध्ययुगीन मराठी वाङ्मयाची सांस्कृतिक पार्श्वभूमी - XIV

1. संस्कृती अभ्यासाची संकल्पना स्पष्ट होते.
2. संस्कृती आणि साहित्य यांचे अन्योन्यसंबंध लक्षात येतात.
3. साहित्याच्या आधारे संस्कृतीचे नवे विश्लेषण करण्याचा दृष्टिकोन विकसित होतो.
4. साहित्य निर्मितीच्या बदलत्या प्रेरणा कळतात.
5. राजसत्तेचे साहित्यावर होणारे परिणाम लक्षात येतात.

M.A. Marathi II Semester- IV

मराठी वैचारिक साहित्य - XV

1. मराठी विषयाच्या प्रस्तुत अभ्यासक्रमातून वैचारिक प्रगल्भता निर्माण होते.
2. सामाजिक, धार्मिक, सांस्कृतिक सौहार्द टिकविण्यासाठी दृष्टि प्राप्त होते.
3. वैचारिक वाङ्मयातील समृद्ध परंपरेचे आकलन होते.
4. स्वातंत्र्य, समता, बंधुता व न्याय या आदर्श मूल्यांच्या उपयोजनाची जाणीव होते.
5. नवोदितांना वैचारिक साहित्य लेखनाची प्रेरणा मिळते.

M.A. Marathi II Semester- IV

प्रादेशिक साहित्य - XVI

1. साहित्याचे प्रवाह आणि प्रकार लक्षात येतात.
2. काळ आणि साहित्य लेखनाचा दृष्टिकोन याबद्दल जाणीव समृद्ध होते.
3. महत्त्वाच्या प्रादेशिक लेखकांच्या लेखनाचा परिचय होतो.
4. विविध साहित्य प्रवाहातील कलाकृतीमध्ये असणारा मानव-भुप्रदेश कसा निराळा असतो हे कळते.
5. निवडक कलाकृतींचा परिचय होतो.

M.A. Marathi II Semester- IV

प्रकल्प लेखन - XVII

1. विद्यार्थ्यांना प्रत्यक्ष लघुप्रकल्प सादर करता येतो.
2. संशोधनाची पूर्वतयारी होते.
3. संशोधनाची भाषा आणि दृष्टिकोन विकसित होतो.
4. विविध संशोधन पध्दतीचे उपयोजन करता येते.

M. A. HINDI

Class : M.A. First Year, Semester First

Name of the Course: प्राचीन एवं मध्यकालीन काव्य-भाग: १

Paper No. : I

1. शिक्षार्थियों को हिंदी की प्राचीन एवं मध्यकालीन काव्य का विस्तृत परिचय होगा।
2. प्राचीन एवं मध्ययुगीन हिंदी काव्य के विविध रूपों और विषयों को समझने के साथ समीक्षा में शिक्षार्थी सक्षम होंगे।
3. संत एवं भक्त कवियों के साहित्य का विस्तृत परिचय शिक्षार्थी को होगा।
4. हिंदी के प्राचीन कवि जगनिक, अमीर खुसरो, जगनिक आदि से शिक्षार्थी परिचित होंगे।

Class: M.A. First Year, Semester First

Name of the Course : भाषा विज्ञान एवं हिंदी भाषा-भाग : १

Paper No. : II

1. भाषा और भाषा विज्ञान की संकल्पना का शिक्षार्थियों को विस्तृत परिचय होगा।
2. शिक्षार्थी हिंदी की ऐतिहासिक पृष्ठभूमि से अवगत होंगे।
3. हिंदी के भाषिक स्वरूप एवं रूप रचना से शिक्षार्थी परिचित होंगे।
4. देवनागरी लिपि के मानकीकरण में शिक्षार्थी दक्ष होंगे।

Class : M.A. First Year, Semester First

Name of the Course: हिंदी साहित्य का इतिहास-भाग: १

Paper No. III

1. इतिहास दृष्टि और साहित्येतिहास लेखन की मान्यताओं से शिक्षार्थी परिचित होंगे।
2. हिंदी साहित्येतिहास लेखन-परंपरा एवं पुनर्लेखन की समस्याओं से शिक्षार्थी अवगत होंगे।
3. हिंदी साहित्येतिहास के विभिन्न कालखंडों में निर्मित साहित्य की प्रेरक परिस्थितियों एवं प्रवृत्तियों से शिक्षार्थी परिचित होंगे।
4. आदिकाल, भक्तिकाल एवं रीतिकाल का विस्तृत परिचय शिक्षार्थियों को होगा।

Class: M.A.First Year, Semester First

Name of the Course : नाट्य-साहित्य भाग: १

Papur. No. : IV

1. शिक्षार्थियों को हिंदी नाटक विधा का विस्तृत परिचय होगा।
2. नाटक: अवधारणा और तात्विक विवेचन में शिक्षार्थी सक्षम होंगे।
3. रंगमंच की अवधारणा से शिक्षार्थी अवगत होंगे।
4. नाट्य-समीक्षा में शिक्षार्थी सक्षम होंगे।

Class : M.A. First Year, Semester Second

Name of the Course : प्राचीन एवं मध्यकालीन काव्य-भाग : २

Paper No. : V

1. प्राचीन एवं मध्ययुगीन काव्य की प्रेरक परिस्थितियाँ एवं प्रवृत्तियों से शिक्षार्थी परिचित होंगे।
2. भक्त कवियों एवं संतों के उपदेशों को आचरण में लाने हेतु शिक्षार्थी सक्षम होंगे।
3. प्राचीन एवं मध्यकालीन हिंदी कवियों के भाव-पक्ष और कला पक्ष, शिल्प-शैलीगत अध्ययन में शिक्षार्थी असक्षम होंगे।
4. भक्त कवि, संत कवि, एवं अन्य मध्ययुगीन कवियों से शिक्षार्थी परिचित होंगे।

Class : M.A.First Year, Semester Second

Name of the Course: भाषा-विज्ञान एवं हिंदी भाषा

Paper. No. : VI

1. भाषा विज्ञान की रूप-विज्ञान, अर्थ विज्ञान, वाक्य की अवधारणा आदि शाखाओं से शिक्षार्थी परिचित होंगे।
2. हिंदी की उपभाषाएँ एवं बोलियाँ और हिंदी के विविध रूपों के अध्ययन में शिक्षार्थी दक्ष होंगे।
3. हिंदी में कम्प्यूटर सुविधाएँ और उनके प्रयोग करने में शिक्षार्थी सक्षम होंगे।
4. हिंदी की संवैधानिक स्थिति से शिक्षार्थी अवगत होंगे।

Class : M.A.First Year, Semester Second

Name of the Course : हिंदी साहित्य का इतिहास भाग:२

Paper No. VII

1. आधुनिक काल के हिंदी साहित्य की प्रेरक परिस्थितियों एवं प्रवृत्तियों से शिक्षार्थियों का विस्तृत परिचय होगा।
2. आधुनिक काल के विभिन्न युग/वाद आदि से शिक्षार्थी परिचित होंगे।
3. हिंदी की आधुनिक प्रमुख गद्य विधाओं के विकास-क्रम से शिक्षार्थी अवगत होंगे।

होंगे।

4. हिंदी साहित्य के आधुनिक विमर्श-दलित साहित्य के आत्मकथा के विकास-क्रम से शिक्षार्थी परिचित होंगे।

Class M.A. First Year, Semester Second

Name of the Course: नाट्य साहित्य-भाग : २

Paper. No. VIII

1. शिक्षार्थियों को हिंदी नाटक विधा का विस्तृत परिचय प्राप्त होगा।
2. शिक्षार्थी नाटकीय पाठों की समझ के साथ हिंदी नाटक की समीक्षा करने में सक्षम होंगे।
3. शिक्षार्थियों में नाट्य-लेखन कौशल का विकास होगा।
4. नाट्यशास्त्र विषयक मान्यताओं का सूक्ष्म परिचय शिक्षार्थियों को होगा।

Class : M.A. Hindi Second Year, Semester Third

Name of the Course: आधुनिक कविता-भाग: १

Paper No. : IX

- 1 आधुनिक हिंदी कविता के अध्ययन से शिक्षार्थियों में राष्ट्रप्रेम, समाज-निष्ठा, नैतिकता एवं मूल्य संवर्धन होगा।
2. शिक्षार्थी काव्य के विविध प्रकारों से परिचित होंगे।
3. काव्य शास्त्रीय समीक्षा में शिक्षार्थी दक्ष होंगे।
4. काव्य के रसास्वादन में शिक्षार्थी सक्षम होंगे।

Class : M.A. Second Year, Semester Third

Name of the Course: समीक्षा सिद्धांत-भाग: १

Paper No. : X

1. शिक्षार्थी भारतीय समीक्षा सिद्धांतों से परिचित होंगे।
2. भारतीय समीक्षा सिद्धांतों में संस्कृत एवं हिंदी के काव्य सिद्धांत विषयक मान्यताओं को शिक्षार्थी समझ पाएँगे।
3. रस, अंलकार, रीति एवं वक्रोक्ति विषयक मान्यताओं में शिक्षार्थी दक्ष होंगे।
4. हिंदी आलोचना की प्रमुख प्रवृत्तियों से शिक्षार्थी परिचित होंगे।

Class : M.A. Hindi Second Year, Semester Third

Name of the Course : हिंदी गद्य साहित्य-भाग: १

Paper. No. XI

1. हिंदी उपन्यास के उद्भव एवं विकास से शिक्षार्थी परिचित होंगे।

- 2 शिक्षार्थियों को हिंदी आत्मकथा के विकास-क्रम का परिचय होगा।
3. हिंदी संस्मरण-साहित्य से शिक्षार्थी अवगत होंगे।
4. हिंदी गद्य-साहित्य में विभिन्न रचनाकारों के योगदान से शिक्षार्थी परिचित होंगे।

Class: M.A. Hindi Second Year, Semester Third

Name of the Course : हिंदी नव-विमर्श एवं साहित्य-भाग: १

Paper No. : XII

1. दलित विमर्श एवं साहित्य की अवधारणा से शिक्षार्थी परिचित होकर रचना-मूल्यांकन की दृष्टि से सक्षम होंगे।
2. आदिवासी विमर्श की अवधारणा और आदिवासी-साहित्य से परिचित होकर शिक्षार्थी रचना-समीक्षा में सक्षम होंगे।
3. शिक्षार्थी अल्प संख्याक विमर्श एवं साहित्य से अवगत होंगे।
- 4 हिंदी नव-विमर्श परक रचनाकारों से शिक्षार्थियों का परिचय होगा।

Class: M.A. Hindi Second Year, Semester Third

Name of the Course : विकल्प में जनसंचार माध्यम-भाग: १

Paper. No : XII (विकल्प)

1. शिक्षार्थी जनसंचार की अवधारणा से अवगत होंगे।
2. जनसंचार के विविध रूपों से शिक्षार्थी परिचित होंगे।
3. शिक्षार्थी जनसंचार माध्यमों के दायित्व से परिचित होकर भविष्य में अपनी भूमिका-निर्वहन में सक्षम होंगे।
4. जनसंचार, विज्ञापन क्षेत्र में रोजगार के अवसरों से शिक्षार्थी लाभान्वित होंगे।

Class : M.A.Second Year, Semester fourth

Name of the Course: आधुनिक कविता-भाग : 2

Paper. No. XIII

1. हिंदी कविता के विविध प्रकारों से परिचित होकर काव्य-शास्त्रीय मान्यताओं के आकलन में दक्ष होंगे।
2. कविता का आकलन और कविता की मूल संवेदना की समझ में शिक्षार्थी सक्षम होंगे।
3. कविता के शिल, भाषा-शैली से शिक्षार्थी परिचित होंगे।
4. आधुनिक कविता की समीक्षा करने में शिक्षार्थी सक्षम होंगे।

Class: M.A.Hindi Second Year, Semester fourth

Name of the Course: समीक्षा सिद्धांत-भाग:2

Paper No. : XIV

1. शिक्षार्थी पाश्चात्य साहित्य समीक्षा सिद्धांतों से परिचित होंगे।
2. आधुनिक समीक्षा की प्रवृत्तियों का आकलन कर व्यावहारिक-समीक्षा में शिक्षार्थी सक्षम होंगे।

Class. : M.A. Hindi Second Year, Semester fourth

Name of the Course: हिंदी गद्य साहित्य-भाग: २

Paper No. : XV

1. गद्य की विभिन्न विधाओं से शिक्षार्थी परिचित होंगे।
2. हिंदी कहानी के विकास-क्रम से शिक्षार्थियों का परिचय होगा।
3. हिंदी निबंध के ऐतिहासिक विकास-क्रम से परिचित होकर शिक्षार्थी उपन्यास-समीक्षा में सक्षम होंगे।
4. हिंदी जीवनी साहित्य से शिक्षार्थी अवगत होंगे।

Class : M.A.Hindi Second Year, Semester fourth

Name of the Course: हिंदी नवविमर्श एवं साहित्य-भाग:२

Paper. No. XVI

1. शिक्षार्थी स्त्री-विमर्श परक साहित्य एवं अवधारणा से परिचित होंगे।
2. किन्नर विमर्श एवं साहित्य की अवधारणा से शिक्षार्थियों का परिचय होगा।
3. हिंदी में वृद्ध विमर्श परक साहित्य-अवधारणा के अध्ययन में शिक्षार्थी सक्षम होंगे।
4. नव विमर्श की अवधारणा और साहित्य-मुल्यांकन में शिक्षार्थी दक्ष होंगे।

Class : M.A. Hindi Second Year, Semester fourth

Name of the Course: विकल्प में जनसंचार माध्यम-भाग: २

Paper. No. : XVI (विकल्प)

1. माध्यम उपयोगी लेखन से शिक्षार्थी परिचित होंगे।
2. रेडिओ, दूरदर्शन, सिनेमा के लिए लेखन की प्रविधि से शिक्षार्थी परिचित होंगे।
3. साहित्यिक विधाओं का दृश्य-श्रव्य रूपांतर की प्रक्रिया में शिक्षार्थी सक्षम होंगे।
4. जन संचार माध्यम के लेखन-कौशल में शिक्षार्थी दक्ष होंगे।

Class : M.A.Hindi Second Year, Semester fourth

Name of the Course : Project writing प्रकल्प लेखन

Paper. No : XVII

1. शिक्षार्थियों को स्वयं अध्ययन की आदत लग जाएगी।
2. शिक्षार्थियों में जन्मतः से निरीक्षण, निवेदन, संकलन, प्रस्तुतिकरण आदि क्षमताओं का विकास होगा।
3. तर्कसंगत सोच-समझ से अनुमान प्रस्तुति में शिक्षार्थी दक्ष होंगे।
4. प्रकल्प-लेखन की कार्य पद्धति से शिक्षार्थी अवगत होंगे।

M. A. POLITICAL SCIENCE

Class M.A.I (Sem – I)

Name of the Course – Modern Political Theory

Paper No – I

1. Understand the key concepts and ideas in Political Theory.
2. Recognize the way in which State – society relationship impacts politics
3. Realize the importance of Political Theory in understanding the contemporary political issues and debates.
4. Develop / Nurture the vocabulary needed to understand politics
5. Imbibe the reading skills needed for the study of the discipline

Class M.A.I (Sem – I)

Name of the Course – Political Institutions in India

Paper No – II

1. Understand and appraise the process of the making of the Indian Constitution.
2. Comprehend the important features of the Constitution of India.
3. Realize the significance of fundamental rights and directive principles and the role of the Judiciary in safeguarding citizens' rights.
4. Understand the process of Nation & State building to be achieved through the Constitution of India.
5. Realize themselves as responsible citizens and imbibe the human values anticipated by the Indian Constitution.

Class M.A.I (Sem – I)

Name of the Course – International Relations

Paper No – III

1. Trace the historical developments of the twentieth century and contemporary world politics.
2. Grasp the issues & debates revolving around the major concerns of the global society today.
3. Discover the global perception of India.
4. Develop interest in the area of International Relations for further studies.

Class M.A.I (Sem – I)

Name of the Course – India’s Foreign Policy

Paper No – IV

1. Understand the institutional mechanisms, nature and evolution in India’s foreign policy.
2. Recognize the issues in bilateral relations with major powers and neighboring countries.
3. Foresee and understand the new dimensions of India’s foreign policy.
4. Appreciate the nuances of World Politics from the Indian perspective.
5. Understand the changing nature of Diplomacy in India’s Foreign Policy

Class M.A.I (Sem – II)

Name of the Course – Political Ideology

Paper No – V

1. Understand the differences between various political ideologies.
2. Understand the evolution and changing nature of ideologies
3. Perceive the various ways in which political ideologies explain and seek to change the world.
4. Realize the relevance and impact of political ideologies on the actual political process.
5. Comprehend the contemporary political processes at the global level with the advent of the new political ideologies.

Class M.A.I (Sem – II)

Name of the Course – Comparative Political Analysis

Paper No – VI

1. Get acquainted with the sub-discipline of Comparative Politics and its methodology.
2. Understand the dynamics of domestic politics across countries.
3. Distinguish between various types of political systems.
4. Carry out comparison of different aspects of government and politics of different countries.

Class M.A.I (Sem – II)

Name of the Course – Issues in International Politics

Paper No – VII

1. Identify the key concepts that influence the dynamics of world politics
2. Understand the sources of these concepts and their historical development
3. Use these concepts in order to critically research, analyse, and evaluate major issues in contemporary world politics
4. Develop a clear awareness of accepted academic practice -- referencing, citation, written expression, and so on
5. Develop skills for research, argument, and analysis in order to effectively communicate their own perspectives on key concepts and issues in world politics

Class M.A.I (Sem – II)

Name of the Course – Indian Political Thought

Paper No – VIII

1. Understand the thought of key Indian political thinkers in their historical context.
2. Appreciate some of the continuing themes in the context of Indian political thought.
3. Understand the connection between the lives of the thinkers with the nature of their political thought through the internal assessment on the life-sketches of the Indian political thinkers.
4. Grasp the role & significance of Indian political thought in the establishment of modern Indian polity.

Class M.A.II (Sem – III)

Name of the Course – Research Methodology

Paper No – IX

1. It is an important for the developing of Research interest of the Research students.
2. It also gives research knowledge, awareness about Social problems and it's solutions.
3. It also gives fundamental information about research, research problem, solutions and it's social relevance.
4. To increase or development of research activities about political concerns which are related to the political human life of the people or society.
5. To promote research in political science like other disciplines of the knowledge.

Class M.A.II (Sem – III)
Name of the Course – Political Sociology
Paper No – X

1. Introduce the linkage between politics and society.
2. Understand the political process with conceptual clarity.
3. Sensitize on the socio political issues.
4. Engage with the contemporary societal issues and grasp the different dimensions of it.
5. Create the interconnectedness between various socio political issues and draw inferences on the same.

Class M.A.II (Sem – III)
Name of the Course – Public Policy in India
Paper No – XI

1. To familiarize the students with the basic ideas, thoughts and theories in Policy making.
2. To help them to understand the importance of Public Policy and its impact in the national and global contexts.
3. To help them to understand the emergence and growth of Public Policy as an academic discipline and give them an idea of their functioning and relate them to the political realities.
4. To equip them to critically relate the theoretical aspects of public policy making processes to the socio economic and political realities of our times

Class M.A.II (Sem – III)
Name of the Course – International Organization
Paper No – XII

1. Understand the roles of the major international and regional organizations in world politics.
2. To make aware about contemporary International and regional organizations with their historical background, performance and relevance.
3. Trace the role of India in world politics through her contribution to the major international and regional organizations.

Class M.A.II (Sem – IV)
Name of the Course – Research Methodology

Paper No – XIII

1. Students understand a general definition of research design.
2. It also gives research knowledge, awareness about Social problems and it's solutions
3. It also gives fundamental information about research, research problem, solutions and its social relevance.
4. To increase or development of research activities about political concerns which are related to the political human life of the people or society.
5. To promote research in political science like other disciplines of the knowledge.

Class M.A.II (Sem – IV)**Name of the Course – Federalism in India****Paper No – XIV**

1. Students should know about Indian federal system and constitution amendment.
2. These courses will helpful learners to understand the basic Indian Federalism and Indian government.
3. Students get deep about Indian Federalism and acquaint knowledge about Indian Federalism.

Class M.A.II (Sem – IV)**Name of the Course – Media and Politics****Paper No – XV**

1. Critically analyze relationships between the media and political actors.
2. Analyze the effects of media and reporting on political behavior and outcomes.
3. Apply analytical frameworks to understand the effects of new and emerging media on political behavior and outcomes
4. Place the Indian media and political environments in comparative perspective.

Class M.A.II (Sem – IV)**Name of the Course – Indian Politics major issues and debates****Paper No – XVI**

1. To enable them to understand the role of caste and religion in Indian politics.
2. To develop the understanding of regional identity and other movements in Indian polity.
3. To be able to understand the social movement, its constituents and forms.

4. To appreciate the concepts and models of equity and development as well as new institutional arrangements.
5. To understand the significance of constitutional and institutional reforms.

M. A. SOCIOLOGY

M. A. I year Sem - I Basic Sociological Theories-I

- 1) This course will help learner to understand the fundamental and foundational knowledge of sociological theories.
- 2) Further this knowledge would be helpful to better understand the modern and postmodern sociological theories.

M. A. I year Sem - I Methodology of Social Research-II

- 1) This course has utility to provide logic, scientific temper and attitudes to the learners.
- 2) This course makes students rational and logical.
- 3) This course also helps to identify the research questions for inquiry and make able to the learners to formulate research proposal.

M. A. I year Sem - I Approaches to the Study of Indian Society-III:

- 1) This course provides the varieties of perspectives and approaches to the learners to understand the different dimensions of Indian society.
- 2) This course has importance and relevance in the knowing the social realities with using multiple approaches.
- 3) By using these varieties of approaches, students would come with concrete conclusion.

M. A. I year Sem - I Political Sociology-IV:

- 1) This course has relevance and significance to provide and sociological approaches to understand the contemporary Indian socio-cultural, socio-economical issues and problems.
- 2) This course has also utility to make learners aware of about the rights, duties and roles of the Indian citizen.
- 3) This course is designed to develop the feelings of nationalism among the young minds of the country.

M. A. I year Sem - II
Contemporary Sociological Theories-V

- 1) This course would be helpful to the learners to understand the contemporary sociological theories.
- 2) This course has aim to build up the capacity of the learners and make them able to understand the sociological perspectives to capture the social realities.

M. A. I year Sem - II
Methods of Social Research-VI

- 1) This course is useful t provide knowledge of advanced tools and techniques of research methodology.
- 2) This course has very wide scope and relevance in the different fields of inquiries and investigations.

M. A. I year Sem - II
Perspective on Indian Society-VII

- 1) This course has relevance in introducing the different approaches to the learners about the Indian society.
- 2) These perspectives gave direction to the learners to know the different complexities and nature, structure of the Indian society.
- 3) This course provide scientific approaches and developed scientific outlook and attitude in the case of inlaying Indian social truths.
- 4) The perspectives on Indian society would produce sociological knowledge that helps to policy makers and social scientists.

M. A. I year Sem - II
Social Movement in India-VIII

- 1) This course has importance in many ways to provide orientation to the students about the contemporary social movements India
- 2) Thus, the course tried to make students aware of about the demands and issues of the social movements.

M.A II Year Sem –III
Classical Sociological Traditions –IX

- 1) This course has its own significance and relevance in providing foundational theoretical inputs and orientations to the students about the first generations of sociologists.
- 2) The classical sociology provides fundamental clarifications about the sociological themes, perspectives and approaches. The classical sociologists made foundation of sociological theories.
- 3) Thus, after studying this course, Students would be able to understand fundamental concepts of the sociology and the contribution of classical sociologists.
- 4) This course would be helpful to provide foundational ideas of learners. This course enriches the sociological knowledge of the students.

M. A. II Year Sem. III
Sociology of Marginalized Communities-X

- 1) This course has its own significance and relevance in providing orientations to the students about present status and conditions of the Scheduled Tribes and Nomadic Tribes.
- 2) This course introduces the different methods, perspectives on the marginalized and weaker sections of the Indian society. By studying this course, students would get knowledge and sociological insights about these sections of the society.
- 3) This course also helps in many ways for offering information which make learners easy to qualify the MPSC/UPSC NET/SET examinations also.
- 4) This course also provides knowledge and information about these communities that make learners for advocate and activists. After studying this course, students would get job opportunities in the governmental as well as Non-governmental Sectors also.

M. A. II Year Sem. III
Social Welfare and Social Legislation-XI

- 1) This course has its own significance and relevance in providing orientations to the students about the provisions of welfare for the weaker and marginal sections of the society.
- 2) To understand the constitutional provisions and welfare goals of the state to appreciate to social welfare needs of India.

3) To enable the students to equip themselves for carrier in social welfare agencies NGOs and Industries. Thus, this course would provide the details about the laws and legislations are made for weaker sections of the society.

4) Thus, this course has utility to provide details needs of welfare programmes and social legislations for the weaker of the society.

M. A. II Year Sem. III Gender and Society-XII

1) This course has its own significance and relevance in providing orientations to the students about the gender sensitizations.

2) This course has also to provide alternative thoughts which would be helpful to understand the issues of gender.

3) This course also provides gender based theories, perspectives and approaches. Thus, gender and society would the gender based knowledge. After studying this course, Student would get opportunities in the field of NGOs, teaching and research centre such as women study centers.

4) This course also helps the students to associate with the women movements and activities for gender and equality in their respective societies.

M. A. II Year Sem. IV Contemporary Indian Sociological Thought- XIII

1) This course has its own significance and relevance in providing orientations to the students about the some contemporary thoughts produced by Indian sociologist in the context of Indian society.

2) These thoughts would help the students to reveal the complexities of Indian society. These thoughts gave direction to the learners to know the different complexities and nature, structure of the Indian society.

3) These thoughts also provide sociological insights, perspectives and approaches to know the contemporary society.

4) Thus, these thoughts would help to produce sociological knowledge and the same knowledge would be helpful to the policy makers, planners and social scientists.

M. A. II Year Sem. IV Society and Human Rights-XIV

- 1) This course has its own significance and relevance in providing orientations to the students about the significance of human rights in the context of Indian society.
- 2) After this paper students will understand the concept of human rights. Students will understand that how human rights are important for Development. Students would understand that what the present situation of human rights in India.
- 3) This course would also offer opportunities to provide job opportunities in the NGOs and in organizations those are working for the human right protection.

**M. A. II Year Sem. IV
Feminism in India-XV**

- 1) This course has its own significance and relevance in providing orientations to the students about the feminist thoughts of India. This course has also utility to provide Indian feminist thoughts about the Indian women.
- 2) This course also provides feminist ideas and views about the gender based roles, activities and action. After studying this course, Student would get alternatives thoughts of feminisms in the context of Indian society.
- 3) After studying this course, students would be able to get job opportunities in NGOs and organizations those are working for women.

**M. A. II Year Sem. IV
Rural Society in India-XVI**

- 1) This course has its own significance and relevance in providing orientations to the students about the contemporary issues and problems of rural society.
- 2) The rural sociology and approaches and methods of village studies provide source of understanding the rural social structure.
- 3) This course has relevance in providing information about the rural developmental programmes and provisions made for the rural development. After studying this course, student would be able to know the contemporary issues and challenges of Indian rural society.
- 4) This course also offers opportunities of employments in the NGOs those are working in the rural set up. Otherwise, learners also go for establishing Non-Governmental Organizations for the rural development.

PHYSICS

Class – B. Sc. I (Sem. I)

Name of the Course – *Mechanics and Properties of Matter*

Paper No – I

1. Students will gain knowledge of mechanics and properties of the matter that exists in different phases i.e., solid, liquid and gas.
2. This course is of fundamental nature and enable the students to handle different types of problems.
3. Student will get the knowledge of calculus, wave theory and modern physics.

Class – B. Sc. I (Sem. I)

Name of the Course – *Mathematical Methods in Physics*

Paper No – II

1. This course is also aimed to develop knowledge in mathematical physics and its applications.
2. To develop expertise in mathematical methods required in the study of Physics.
3. To develop critical thinking and problem solving skill.
4. This course is to apply the concept of vectors and complex variables to various physical quantities.
5. This course will also enable the students to solve the problems related to partial differentiation.

Class – B. Sc. I (Sem. II)

Name of the Course – *Heat and Thermodynamics*

Paper No – III

1. This course will introduce the students to the world of heat and thermodynamics and the behaviour of the physical systems at different thermodynamical conditions.
2. To understand the difference in the behavior of the ideal and real gases, transport phenomenon in gases.
3. To know the working of various heat engines and the ways to increase their working efficiency.

Class – B. Sc. I (Sem. II)

Name of the Course – *Electricity and Magnetism*

Paper No – IV

1. To introduce the students to the concepts of static and dynamical electrical magnetic fields, the sources for generating such fields, polarization and induction effects.
2. To understand the basic difference between the DC and AC circuits and their functioning.
3. To understand the role of electricity in everyday life, relate electrical conduction, relate using Ohm's law.
4. To understand the working principles of various electrical components and gadgets.

Class – B. Sc. I (Sem. II)

Name of the Course – *Physics Practical Paper*

Paper No – V

1. To introduce the students to the practical applications of the core courses in Physics that the students have studied in theory papers.
2. To perform experiments based on the computational methods applicable for solving problems in physical situations.

Class – B. Sc. II (Sem. III)

Name of the Course – *Waves and Oscillations*

Paper No – VI

1. To introduce the students the concepts of mechanical waves, propagation and reflection properties.
2. To understand the formation of standing waves & their applications in resonance tubes. Energy distribution in the standing waves.
3. Students will learn about free and forced vibrations, acoustics and acoustical designs and their applications.

Class – B. Sc. II (Sem. III)

Name of the Course – *Statistical Physics, Electromagnetics and Theory of Relativity*

Paper No – VII

1. The concepts of macroscopic world, statistical approaches for understanding properties of the macroscopic bodies.
2. To learn Maxwell's equations and their applications in the electromagnetic waves.
3. Students will understand energy carried by the EM waves and theory of relativity.

Class – B. Sc. II (Sem. III)

Name of the Course – *Statistical Physics, Electromagnetics and Theory of Relativity*

Paper No – VII

1. The concepts of macroscopic world, statistical approaches for understanding properties of the macroscopic bodies.
2. To learn Maxwell's equations and their applications in the electromagnetic waves.
3. Students will understand energy carried by the EM waves and theory of relativity.

Skill Enhancement Course (SEC)

Class – B. Sc. II (Sem. III)

Name of the Course – *Electrical Measurements*– SEC-PHY-I

Paper No – I

1. To acquire skills related to characteristics and usage of the instruments for measurement of the electrical quantities.
2. The students will learn the skills selecting meters of proper scales, connecting and handling them and also to use them.

Class – B. Sc. II (Sem. IV)

Name of the Course – *Optics and Lasers*

Paper No – VIII

1. Students will learn the concepts of geometrical optics and properties of optical instruments.
2. To understand concepts of interference and diffraction.
3. Students will acquire knowledge about polarization and LASERS and their applications.

Class – B. Sc. II (Sem. IV)

Name of the Course – *Basic Electronics*

Paper No – IX

1. To Identify and understand construction and properties of different types of P-N junction diodes
2. Apply knowledge of semiconductor devices to use them in different combinations to see their applications as amplifiers and oscillators
3. Design different circuits using semiconductor devices and demonstrate their usage.

Skill Enhancement Course –II (SEC)

Class – B. Sc. II (Sem. IV)

Name of the Course – *Applied Optics*– SEC-PHY-II

Paper No – II

1. To impart advanced skills related to the optical and photonic devices.
2. This course also enables the students to verify various facts that they have learned in the theory course on optics.

Class – B. Sc. II (Sem. IV)

Name of the Course – *Practical based on P.No.VI & VIII*

Paper No – X

1. Students will learn experiments based on the computational methods applicable for solving problems in physical situations.
2. After completing this course students will get insight of the theory course they have undergone and will understand the importance and applications of the courses.

Class – B. Sc. II (Sem. IV)

Name of the Course – *Practical based on P. No. VII & IX*

Paper No – XI

1. Students will learn about the practical applications of the core courses in Physics that the students have studied in Semester III and IV.
2. Students will get practical experience of theoretical knowledge.

Class – B. Sc. III (Sem. V)

Name of the Course – *Quantum Mechanics*

Paper No – XII

1. Students will learn the world of microscopic particles such as molecules, atoms, atomic nuclei and elementary particles.
2. Students will understand connections between the rules governing the microscopic particles with that of the macroscopic bodies around us.
3. Students will get knowledge about the behavior of molecules, atoms and elementary particles.

Class – B. A. III (Sem. V)

Name of the Course – *Solid State Physics*

Paper No – XIII

1. Students will get fundamental knowledge of the crystallography, principles behind the formation of matter, their structure and physical properties.

2. Students will understand the relationship between the internal structure and various properties of matter.
3. Students will be able to classify the materials in different classes based on their physical, thermal, electrical, and magnetic properties.

Skill Enhancement Course (SEC)

Class – B. Sc. III (Sem. V)

Name of the Course – *Electrical Circuit Analysis Skill* – SEC-PHY-III

Paper No – III

1. Students will get fundamental knowledge to check the electrical connections at house-hold.
2. Students will repair the electrical appliances for the general troubleshoots and wiring faults.

Class – B. Sc. III (Sem. VI)

Name of the Course – *Atomic, Molecular & Nuclear Physics*

Paper No – XIV

1. Students will get fundamental knowledge of atoms, molecules, nuclei & their structures.
2. Students will understand the interaction of atoms and molecules with electric and magnetic fields.
3. Students will get adequate knowledge on the nuclear energy sources and reactions with its application in establishing nuclear reactors.

Class – B. Sc. III (Sem. VI)

Name of the Course – *Digital and Communication Electronics*

Paper No – XV

1. Students will get adequate knowledge of the number system and basics of digital electronics.
2. Students will understand the importance and working of the communication system.
3. Students will get adequate knowledge of digital and communication electronics.

Skill Enhancement Course (SEC)

Class – B. Sc. III (Sem. VI)

Name of the Course — *Semiconductor Devices Application Skill* SEC-PHY-IV

Paper No – IV

1. Students will gain experience of soldering of electronic circuits.

2. Students will understand the working characteristics comparing the performances of various types of semiconductor devices.

Class – B. Sc. III (Sem. VI)

Name of the Course – Practical Based on Theory Paper Nos. P-XII & XIV

Paper No – XVI

1. Students will learn experiments based on the computational methods applicable for solving problems in physical situations.
2. After completing this course students will get experience of the theory course they have undergone and will understand the importance and applications of the courses.

Class – B. Sc. III (Sem. VI)

Name of the Course – *Practical based on P. No. P-XIII & XV*

Paper No – XVII

1. Students will learn about the practical applications of the core courses in Physics that the students have studied in Semester V and VI.
2. Students will get practical experience of theoretical knowledge.

CHEMISTRY

Subject- Chemistry

Class- BSc I (Sem-I)

Name of Course- Organic and Inorganic Chemistry

Paper -I (CCC-I)

1. Student should learn basic concept of organic chemistry, Nomenclature.
2. Student get well acquainted with functional group in organic chemistry.
3. To understand the basic concepts and differences aliphatic hydrocarbons.
4. To know about term cycloalkane, cycloalkene and diene.
5. Learn and practice about organic compounds with their names.
6. Students learn some exceptional electronic configuration, trends and Periodicity in the following properties like atomic size, ionization energy, electron affinity & electronegativity.
7. To understand the inert gases forms compounds, different fluoride compounds of Xenon.

Class- BSc I (SEM-I)

Name of Course- Physical and Inorganic Chemistry

Paper -II (CCC-I)

1. Learning and understanding rules of logarithm, Rules of drawing graph,
2. Derivatives, Integration, different mathematical concept and SI units, and their use in solving numerical.
3. Learning surface phenomena at heterogeneous surfaces.
4. Student will learn the basic knowledge of gas phase, Kinetic molecular theory, critical phenomenon, liquefaction and molecular velocities.
5. To impart knowledge about solid phase, crystallography and some crystal structure.
6. General characteristics of s-block elements, oxides, hydroxide, carbonate & its complexes
7. Study the oxidation and reduction by different methods.

Class- BSc I (Sem-II)

Name of Course- Organic and Inorganic Chemistry

Paper -III (CCC-II)

1. Student should learn the concept of aromatic hydrocarbons, Aromaticity and antiaromaticity.

2. Student should understand the phenols and synthesis of phenols
3. Student knows about the haloalkene and haloarenes compounds.
4. To know the concepts of carboxylic acids and their derivatives.
5. To know about the types of alcohols and reaction of epoxide.
6. To study the different properties of P- block elements.
7. To know the acids & Bases by different concepts

Class- BSc I (Sem-II)

Name of Course- Physical and Inorganic Chemistry

Paper –IV (CCC-II)

1. To impart knowledge of atomic structure, different theories of atomic structure, rules of electronic configuration and quantum numbers.
2. Learning of properties of liquid phase as surface tension, Viscosity and parachor.
3. Student will learn the basic knowledge of colloidal state, types, preparation, properties and applications of colloidal state.
4. Learning and understanding of catalysis, types of catalysis and characteristics of catalyzed reactions.
5. To understanding the chemical bond and its different types of bonds.
6. Learning the Concept of hybridization and study of VSEPR & Molecular Orbital theory

Name of Course- Laboratory Course-I

Paper-V [CCCP-I]

1. Learn the basic of semi-microanalysis.
2. Learn about organic synthesis.
3. Know to determine the melting point and boiling point of organic compounds.
4. Learn to determine viscosity, surface tension of organic compounds, heat of neutralisation and equivalent weight of metal.

Class- BSc II (Sem-III)

Name of Course- Organic and Inorganic Chemistry

Paper -VI (CCC-III, Section A)

1. Learn the mechanism of name reactions.
2. Know the Synthesis, and Reactions of Aromatic Carboxylic and Sulphonic acids.
3. Know the Synthesis, and Reactions of Organometallic compounds.

4. Learn the synthesis, mechanism, applications of active methylene compounds.
5. Gathering basic knowledge of Oils, Fats, Soaps and Detergents.
6. Understand the basic principle and application of Qualitative Analysis.
7. Know the Classification, Properties of Non- aqueous solvents.

Class- BSc II (Sem-III)

Name of Course- Physical and Inorganic Chemistry

Paper -VII (CCC-III, Section B)

1. Derive Schrodinger wave equation.
2. Understand De-Broglie's hypothesis and uncertainty principle.
3. Solve the numerical problems based on De-Broglie.
4. Understand concept of entropy.
5. Understand statements of first, second and third law of thermodynamics.
6. Know the meaning of phase, component and degree of freedom.
7. Know the nuclear structure & different energy of nuclear.
8. Understand the different steps & procedure in the gravimetric separation method.

Class- BSc II (Sem-IV)

Name of Course- Organic and Inorganic Chemistry

Paper -VIII (CCC-IV, Section A)

1. Learn the stereoisomerism of Chiral compounds.
2. Know the Classification, and Reactions of carbohydrates.
3. Know the Synthesis, and Reactions of Nitrogen Compounds.
4. Gathering applications of Reagents in Organic Synthesis.
5. Understand the Characteristics of d-Block Elements.
6. Know the Characteristics of d-Block Elements

Name of Course- Physical and Inorganic Chemistry

Paper -IX (CCC-IV, Section B)

1. Know the rate constant and factors affecting rate of reactions.
2. Write an expression for rate constant (K) for first order, second order reaction.
3. Know the terms cell constant, specific conductivity, equivalent conductivity and molar conductivity.
4. Know the applications of Kohlrausch's law.

5. Compare between thermal and photochemical reactions.
6. Discuss different types of photochemical process.
7. Know the preparation, properties, structure & application of different compounds.
8. Discuss different inter halogen compounds by preparation, properties, structure and uses

Name of Course- Organic and Inorganic Chemistry (Lab Course II)
Paper -X (CCCP-II, Section A)

1. Learn basics of thin layer chromatography and distillation.
2. Learn fundamentals of organic qualitative analysis.
3. Learn about organic estimations.
4. Basics of volumetric analysis

Name of Course- Physical and Inorganic Chemistry (Lab Course III)
Paper -XI (CCCP-II, Section B)

1. Calculate normality and strength of the solution using potentiometer and conductivity meter.
2. Find pka value on pH meter.
3. Verify Lamberts-Beer's law colorimetrically and determine unknown concentration of the solution.
4. Determine energy of activation.
5. Determine heat of solution.
6. Study the effect of solute on CST of phenol-water system.
7. Determine the enthalpy of ionization of weak acid / weak base.
8. Determine partition coefficient.
9. Separations of elements from each other & analysis by volumetric method.

Name of Course- SECC I

1. Learn the qualities of water.
2. Learn to determine electrical conductance, pH of water, conductance and hardness of water.
3. Learn about water pollution.

Name of Course- SECC II

1. Know to prepare the normal solutions.
2. Know the basic concepts of titrations.
3. Learn to determine normality and weight per litre.

Class- BSc III (Sem-V)

Name of Course- Organic and Inorganic Chemistry

Paper -XII (CCC-V, Section A)

1. After completion of this course, student will be able to Organic reaction and mechanism pathways.
2. Nomenclature of various heterocycles
3. Recognize and comment on different synthetic drugs and dyes
4. Able to discuss the uses and synthesis of some vitamins and pesticides
5. Understand the basic principle and application of coordination complexes
6. Know the application of elements in Medicine

Name of Course- Physical and Inorganic Chemistry

Paper -XIII (CCC-V, Section B)

1. Understand the concepts of molecular Spectroscopy and its applications
2. Analyze Rotational, Vibrational and Raman Spectra
3. Interpret the theoretical and experimental methods of chemical kinetics
4. Know the theory and application of Distribution law
5. Explain the Nomenclature, classification and application of Organometallic Compounds
6. Illustrate the classification and application of Metal Carbonyls

Class- BSc III (Sem-VI)

Name of Course- Organic and Inorganic Chemistry

Paper -XIV (CCC-VI, Section A)

1. Learn the basic principle and terms used in UV, IR & NMR Spectroscopy.
2. Apply spectroscopic techniques in analyzing the structure of simple organic molecules.
3. Acquire the basic knowledge and synthesis of polymers.
4. Describe the types of Rearrangement.
5. Postulates and limitations of VBT and CFT
6. Calculation of CFSE for Tetrahedral and Octahedral Complexes

7. Explain the types of electronic transition and selection rule
8. Apply spectroscopic techniques in analyzing the structure of simple organic Molecules

**Name of Course- Physical and Inorganic Chemistry
Paper -XV (CCC-VI, Section B)**

1. Basic concepts of electrochemistry and its applications
2. Understanding the Nernst heat theorem and the Thermodynamics open system
3. Know the Vant-Hoff's Reaction Isochore and numerical on it
4. Biological role of alkali and alkaline earth metal ions
5. Describe the structures and functions of Metal Cluster

**Name of Course- Organic and Inorganic Chemistry (Lab Course IV)
Paper -XVI (CCCP-III, Section A)**

1. Know to separate the binary mmixture.
2. Learn to identify the organic compounds.
3. Learn the gravimetric estimations.
- 4.

Name of Course- Physical and Inorganic Chemistry (Lab Couse V)

1. Learn to verify Onsagar's equation.
2. Study normality by conductometrically.
3. Study normality by potentiometrically.
4. Study inorganic preparations and estimation of metal ions.

**Paper -XVII (CCCP-III, Section B)
Name of Course- SECC I**

1. Able to know analytical and instrumental methods

Name of Course- SECC II

1. Able to know the use of software and Excel in Chemistry

MATHEMATICS

Class – B. SC. I (Sem. I)

Name of the Course – Calculus I (Differential Calculus)

Paper No – I

- 1) Understanding concept of Limit, Continuity of Single and two variable Functions.
- 2) Find the Higher order derivatives of Product of Functions
- 3) Expand functions in terms of infinite series.
- 4) Find Equation of Tangent, Normal and Length of Tangent, Normal, Sub-tangent, and Sub-normal.
- 5) Understanding of Mean Value Theorem concepts.
- 6) Understand the concept of Partial differentiation.
- 7) Use the results to solve problems. 8. Differentiate difference between derivative of single variable and two variables.

Class – B. SC. I (Sem. I)

Name of the Course – Algebra and geometry

Paper No – II

- 1) Add, Subtract and multiply two Matrices.
- 2) Recognize the different types of Matrices.
- 3) Find the Inverse of invertible Matrices.
- 4) Determine the Rank of a Matrix.
- 5) Transform matrix to Row Echelon form
- 6) Solve the System of Linear Equations.
- 7) Find the Characteristic Roots and Characteristic Vectors of a Square Matrix.
- 8) Check that every square matrix satisfies its own Characteristic Polynomial.

Class – B. SC. I (Sem. II)

Name of the Course – Calculus II (Integral Calculus)

Paper No – III

- 1) Apply method of integration to find the integral of function.
- 2) Solve examples of definite integrals using Properties definite integrals.
- 3) Find the area and volume of given shape.
- 4) Understanding concept of Gamma and Beta Functions.
- 5) Solve problems on Multiple Integrals.

Class – B. SC. I (Sem. II)

Name of the Course – Geometry

Paper No – IV

- 1) Understanding concepts on Three Dimensional Geometry.
- 2) Find equations of Right lines, Planes, Spheres, Cones and Cylinders.
- 3) Find the Direction cosines of any line under the different given conditions.
- 4) Understand the intersection of any two or three, three dimensional geometrical figures.
- 5) Transform the equation of a plane to the normal form.
- 6) Transform equation of line from the unsymmetrical to the symmetrical form.
- 7) Find the length of perpendicular from a point to a plane.
- 8) Find the angle of intersection of two spheres. 9. Understanding concepts of plane of contact

Class – B. SC. I (Annual Pattern)

Name of the Course – Practical

Paper No – V

- 1) Verify associativity of matrix addition, left distributive law and right distributive law of matrices.
- 2) Find determinant, Eigen values, Eigen vectors, inverse, powers and characteristics polynomial of a square matrix.
- 3) To draw the graph of different functions with the help of MATLAB software and related Freeware.

Class – B. SC. II (Sem. III)

Name of the Course – Real Analysis I

Paper No – VI

- 1) Understanding the basic concept of sets and their properties.
- 2) Understanding the concept of a neighbourhood of a point, interior points of a set, open set.
- 3) Understanding concept of limit points of a set, closed set, closure of a set, dense set.
- 4) Understanding the basic concept of sequences, sub sequences, bounds of sequences, limit point of sequences, general principle of convergence, different types of sequences.
- 5) Understanding the concept of infinite series, different types of series, the general principle of convergence
- 6) Use the results to solve some problems.

- 7) Understanding the difference between different types of sequences, series, and comparison tests.

Class – B. SC. II (Sem. III)

Name of the Course – Group Theory

Paper No – VII

- 1) Understand the concepts on an equivalence relation.
- 2) Find the examples of equivalence relation.
- 3) Check whether the given set, is a group for the given operation or not.
- 4) Understand the general properties of groups.
- 5) Solve problems on groups.
- 6) Understand the concepts of the cyclic group.
- 7) Use Lagrange's theorem to solve the problems in number theory.
- 8) Form a quotient group.
- 9) Find the kernel of a group homomorphism.

Class – B. SC. II (Sem. III)

Name of the Course – Ordinary differential equations

Paper No – VIII

- 1) Understanding concept of solution of differential equations, order and degree.
- 2) Transform the equations into variable separable form.
- 3) Transform first-order non-homogeneous equation in x and y to homogeneous equation in x and y and solve it.
- 4) Find the equations that can be resolved into components equation and solve it.
- 5) Solve Clairaut's equation.
- 6) Find the solutions when the auxiliary equations are equal, different, repeated, and imaginary roots.
- 7) Find the solution of the exact differential equation, rules of finding the integrating factor.
- 8) Transform non-linear equation to linear equation and solve it.
- 9) Find integral corresponding to a term of the form e^{ax} , x^m , $\sin ax$, $\cos ax$, $e^{ax}V$, xV , x^2V e in the second member.
- 10) Find the solution of linear equation with variable coefficients.
- 11) Transform the equations to the homogeneous linear form.

- 12) Transform the homogeneous linear equation with constant coefficient by changing the independent variable x to z by putting $x = e^z$ or $Z = \log x$

Skill Enhancement course

Class – B. SC. III (Sem. III)

Name of the Course – SECM1

- 1) Plots 2D and 3D graphs of various functions using MATLAB.

Class – B. SC. II (Sem. IV)

Name of the Course – Real Analysis II

Paper No – IX

- 1) Understand the meaning of interval, subinterval, partitions, and their refinement.
- 2) Understanding the basic concept of upper integral and lower integral and Riemann integral.
- 3) Understanding difference between upper sum, lower sum and Riemann sum
- 4) Acquire the idea about Riemann Integrability and Riemann Integration
- 5) Understand various theorems associated with Riemann Integration
- 6) Develop a knowledge about Riemann Integration and applies to problems
- 7) Understand the meaning of improper integral.
- 8) Determine convergence of improper integrals with discontinuities in their domain or infinite limits of integration.
- 9) Develop skill in checking the convergence of improper integral using various tests of convergence
- 10) Understanding distinguishes between convergence and absolute convergence of improper integral.
- 11) Use comparison test with a corresponding improper integral with other improper integral to decide whether improper integral converge or diverge
- 12) Use the results to solve some problems.

Class – B. SC. II (Sem. IV)

Name of the Course – Ring Theory

Paper No – X

- 1) Understand given algebraic structure is a Ring or not.
- 2) Construct the examples of ring with known examples of ring.
- 3) Differentiate between zero-divisors and non-zero-divisors in a given ring.
- 4) Check whether given two rings are isomorphic or not.

- 5) Check whether the given ideal of a ring is a principal ideal or not.
- 6) Understand the concepts on principal ideal ring
- 7) Understand concepts on Euclidean rings.

Class – B. SC. II (Sem. IV)

Name of the Course – Partial Differential Equation

Paper No – XI

- 1) Classification of PDE.
- 2) Solve linear as well as non-linear PDE of first and second order.
- 3) Apply PDE techniques to predict the behaviour of certain phenomena.
- 4) Solve real problems by identifying them approximately from the perspective of PDE.
- 5) Mathematical formation of real problem precisely.
- 6) Solve problem using boundary conditions.

Skill Enhancement course

Class – B. SC. III (Sem. IV)

Name of the Course – SECM2

- 1) Solve problems of Ordinary differential equations using MATLAB.

Class – B. SC. III (Sem. V)

Name of the Course – Metric Spaces

Paper No – XII

- 1) Demonstrate an understanding of metric spaces and subspaces by proving unseen results.
- 2) Produce examples and counterexamples illustrating the mathematical concepts.
- 3) Understand the concepts of open and closed sets.
- 4) Understand the concepts and develop skill to check the positions of a point in the space.
- 5) Understand the concepts of convergences and completeness.
- 6) Understand the concepts of fixed point and Banach principle.
- 7) Understand the concepts of continuity and uniform continuity.
- 8) Understand the concepts of compact and non-compact sets with various properties.
- 9) Understand the concepts of Lebesgue Number for Covers and connectedness of sets.
- 10) After completion of this course student can aware with basic concepts of functional analysis.

Class – B. SC. III (Sem. V)
Name of the Course – Linear Algebra
Paper No – XIII

- 1) Understand and prove algebraic statements about vector spaces, subspaces, basis, and Inner product spaces.
- 2) Determine a basis and the dimension of finite dimensional space.
- 3) Understand and prove statements about linear transformations.
- 4) Find the kernel, range, rank and nullity of linear transformation.
- 5) Determine Eigen values and Eigen vectors.
- 6) Interpret a matrix as a representation of linear transformation.

Class – B. SC. III (Sem. V)
Name of the Course – Numerical Analysis
Paper No – XIV

- 1) Estimate the value of a function under certain assumptions.
- 2) Find the missing terms in the given data using numerical techniques.
- 3) Apply numerical derivation and numerical integration methods.
- 4) Investigate numerical solutions of differential equations.
- 5) Find the integration of functions using numerical methods.
- 6) Find the solutions of ordinary differential equations.

Skill Enhancement course
Class – B. SC. III (Sem. V)
Name of the Course – SECM3

- 1) Solve problems of Partial Differential Equations using MATLAB.

Class – B. SC. III (Sem. VI)
Name of the Course – Complex Analysis
Paper No – XV

- 1) Operate basic mathematical operations with complex numbers in Cartesian and polar forms.
- 2) Demonstrate the ability of limit, continuity, analyticity of a function.
- 3) Find the derivative and integral of a complex variable function.
- 4) Work with exponential and logarithmic functions.
- 5) Use Cauchy integral theorem and Liouville's theorem.
- 6) Use Taylor and Laurent's series.

Class – B. SC. III (Sem. VI)

Name of the Course – Integral Transforms

Paper No – XVI

- 1) Understand the concept of Integral Transforms
- 2) Identify integral transforms by their integration limits and kernels
- 3) Obtain integral transforms of functions
- 4) Know the formulae for integral transforms of standard functions
- 5) Understand various properties of integral transforms
- 6) Apply the integral transforms for evaluating integrals
- 7) Apply the integral transforms along with their inversion formulae for solving differential equations with initial conditions
- 8) Apply the integral transforms along with their inversion formulae for solving systems of simultaneous differential equations with initial conditions

Class – B. SC. III (Sem. VI)

Name of the Course – Elementary Number Theory

Paper No – XVII

- 1) Apply different methods of proofs including induction, contradiction, and counter examples to verify mathematical assertions.
- 2) Explain basic concepts like divisibility, greatest common divisor, congruence's, linear congruence's.
- 3) Solve systems of Diophantine equations using the Euclidean algorithm and Chinese remainder theorem
- 4) Demonstrate knowledge and understanding of prime numbers.
- 5) Use Fermat's theorem and Wilson's theorem.

Skill Enhancement course

Class – B. SC. III (Sem. VI)

Name of the Course – SECM4

- 1) Apply Euler method, Trapezoidal rule, Simpson's rule of Numerical Analysis to solve problems using MATLAB.

BOTANY

Class – B. Sc. I (Sem. I)

Name of the Course – Viruses, Bacteria, Algae, Fungi, Lichens and Mycorrhiza

Paper No – I

- 1) Understand the morphology, structure and importance of the various organisms.
- 2) Differentiate between various groups of Algae, Fungi, Bacteria, Viruses, and Lichens & Mycorrhiza.
- 3) Learn the life cycles of individuals belonging to Algae, Fungi, Bacteria, Viruses, Lichens & Mycorrhiza.

Class – B. Sc. I (Sem. I)

Name of the Course – Plant Ecology, Phytogeography and Environmental Biology

Paper No – II

- 1) Able to understand the ecological principles, interactions taking place in the Ecosystems and the flow of energy.
- 2) Learn about the concept of phytogeography and its relations with other disciplines.

Class – B. Sc. I (Sem. II)

Name of the Course – Bryophytes, Pteridophytes, Gymnosperms and Paleobotany

Paper No – III

- 1) Learn the life cycles of individuals belonging to Bryophytes, Pteridophytes and Gymnosperms.
- 2) Learn about process of fossil formation and fossils plants.

Class – B. Sc. I (Sem. II)

Name of the Course – Taxonomy of Angiosperms

Paper No – IV

- 1) Proficiency with the basic terminology of plant morphology.
- 2) Able to identify the major families of plants and their economic importance.
- 3) Understand the methods of collecting and preserving plants.

Name of the Course – Practical Based on Theory Papers-I, II, III and IV

Paper No – V

- 1) Able to perceive practical knowledge of Algae, Fungi, Bacteria, Viruses, Lichens & Mycorrhiza.

- 2) Perform experimental analysis and practicals related to Plant Ecology, Phytogeography and Environmental Biology.
- 3) Understanding life cycles of individuals belonging to Bryophytes, Pteridophytes and
- 4) Gymnosperms.
- 5) Identify the major families of plants and their economic importance with collecting and preserving methods.

Class – B. Sc. II (Sem. III)

Name of the Course – Plant Anatomy

Paper No – VI

- 1) The students will be able to understand the meristem (RAM & SAM) different simple and complex tissues and secondary growth in root and stem.
- 2) Students will acquire knowledge of anatomy of root, stem and leaf in dicot and monocot plants.

Class – B. Sc. II (Sem. III)

Name of the Course – Plant Physiology and Biochemistry

Paper No – VII

- 1) Students will gain the knowledge of water and nutrient uptake, movement in plants, role of mineral elements, translocation of sugars, Role of various plant growth regulators, phytochrome in plants.
- 2) Students shall learn different types of biomolecules and secondary metabolites
- 3) Students will learn the flowering physiology, vernalization and seed dormancy in plants.

Class – B. Sc. II (Sem. IV)

Name of the Course – Plant Embryology

Paper No – VIII

- 1) This course will be able to demonstrate foundational knowledge in embryology of plants.
- 2) Students will be able to understand the development of pollen, Ovule, and fertilization and palynological information.

Class – B. Sc. II (Sem. IV)

Name of the Course – Plant Metabolism and Biotechnology

Paper No – IX

- 1) Students will be able to understand the various metabolic processes such as photosynthesis, respiration, Nitrogen metabolism etc. which are important for life.
- 2) Students shall become familiar with the gene cloning and its transfer in plants.
- 3) Students shall learn different databases and their applications.

Name of the Course – Practical Based on Theory Papers-VI and VIII
Paper No – X

- 1) Acquire practical knowledge about the meristem, different simple and complex tissues and secondary growth in root and stem.
- 2) Acquire practical knowledge of anatomy of root, stem and leaf in dicot and monocot plants.
- 3) Demonstration of foundational knowledge in embryology of plants.
- 4) Study of experimental development of pollen, Ovule, and fertilization and palynological information.

Name of the Course – Practical Based on Theory Papers-VII and IX
Paper No – XI

- 1) Students will gain the practical knowledge of water and nutrient uptake, movement in plants, role of mineral elements in plants.
- 2) Study of practical utilization of biomolecules and secondary metabolites.
- 3) Study of experiments related to flowering physiology, various metabolic processes such as photosynthesis and respiration.
- 4) Perform practical experiments in different biological databases and their applications.

Class – B. Sc. III (Sem. V)
Name of the Course – Cell and Molecular Biology
Paper No – XII

- 1) The students will be able to understand ultra-structure of a cell, cell wall, cell membrane, cell organelles and chromosomes, cell cycle and cell division.
- 2) The students will be able to understand in detail the structure of DNA and RNA, protein synthesis, gene structure, gene mutation and related diseases.
- 3) Students will acquire knowledge of cell and molecular biology.

Class – B. Sc. III (Sem. V)
Name of the Course – Herbal Technology-I
Paper No – XIII

- 1) The students will be able to understand fundamentals of medicinal and aromatic plants.
- 2) The students will be able to understand in detail the crude plant drugs and pharmacognosy.
- 3) Students will acquire knowledge of standardization of drugs.

Class – B. Sc. III (Sem. VI)
Name of the Course – Genetics and Plant Breeding
Paper No – XIV

- 1) Students shall understand Mendelian genetics, gene interaction.
- 2) Students shall learn the sex determination, linkage, sex linked inheritance and genetic variations.
- 3) Students shall understand various crop improvement methods in plant breeding.

Class – B. Sc. III (Sem. VI)
Name of the Course – Herbal Technology-II
Paper No – XV

- 1) The students will be able to understand fundamentals of herbal formulation, drug constituent and biosynthetic pathway.
- 2) The students will be able to understand in detail about the analytical and chromatographic techniques.
- 3) Learner will get information about drug constituents and biosynthetic pathways.

Name of the Course – Practical Based on Theory Papers-XII and XIV
Paper No – XVI

- 1) Experimental study of ultra-structure of a cell, cell wall, cell membrane, cell organelles and chromosomes, cell cycle and cell division.
- 2) Perform practicals and problems related to Mendelian genetics and gene interaction.
- 3) Perform practicals and problems related to sex determination, linkage, sex linked inheritance and genetic variations.
- 4) Study of experiments in crop improvement methods in plant breeding.

Name of the Course – Practical Based on Theory Papers-XIII and XV

(Herbal Technology-I & II)
Paper No – XVII

- 1) Study of practical applications of medicinal and aromatic plants.
- 2) Perform the experiments related to extraction of plant crude drugs, standardization of drugs and pharmacognosy.
- 3) Perform the experiments related to herbal formulation, drug constituent and biosynthetic pathway.
- 4) Perform the experiments related to the analytical and chromatographic techniques.

ZOOLOGY

Class – B.Sc. I (Sem. I)

Name of the Course – Biodiversity of Invertebrates

Paper No – I

1. The student will be able to identify a given invertebrate upto class level.
2. Ability to understand the contribution of Invertebrates in the biodiversity index of any given habitat.
3. Ability to understand and appreciate the ecological and economic importance of invertebrates and vertebrates.
4. Ability to identify and describe external morphology and internal anatomical features of representative invertebrate species.

Class – B.Sc. I (Sem. I)

Name of the Course – Biodiversity of Chordates

Paper No –II

1. The student will be able to identify and understand the Biodiversity of Chordates.
2. Ability to understand anatomical relation between different vertebrate classes.
3. The learner will be able to understand the economic importance of Chordates.

Class – B.Sc. I (Sem. II)

Name of the Course –: Comparative Anatomy of Vertebrates

Paper No –III

1. The student will be able to identify and understand comparative anatomical structure of vertebrate organ systems.
2. The learner will be able to understand the evolution of various organs and systems in the vertebrate body according to its environment.
3. Understand the plasticity of organ systems to adapt to the environment and acquire different novel forms.

Class – B.Sc. I (Sem. II)

Name of the Course –: Developmental Biology of Vertebrates

Paper No –IV

1. Ability to understand the anatomical organization of organs and systems in representative species.

2. Ability to identify and describe structure and functions of different body parts of invertebrates and vertebrates.
3. Students would be able to prepare temporary and permanent mountings of biological material.
4. Students would be able to relate different bones and be able to articulate them to form a skeleton.
5. Students would make observations of organisms in their natural environment and document them.

Class – B.Sc. I (Sem. I & II)

Name of the Course –: Lab course Biodiversity of Invertebrates and Chordates & Comparative Anatomy and Developmental Biology of Vertebrates (Based on P-I,II,III&IV)

Paper No –V

1. Ability to understand the anatomical organization of organs and systems in representative species.
2. Ability to identify and describe structure and functions of different body parts of invertebrates and vertebrates.
3. Students would be able to prepare temporary and permanent mountings of biological material.
4. Students would be able to relate different bones and be able to articulate them to form a skeleton.
5. Students would make observations of organisms in their natural environment and document them.

Class – B.Sc. II nd year (Sem. III)

Name of the Course –: Physiology

Paper No –VI

1. Monitor their blood pressure and identify blood groups.
2. Understand function and types of heart & circulatory system.
3. Appreciate the basic function of kidney, main function of nerves.
4. Acquire knowledge on the nature and functions of hormones and learn the mechanism of hormone action.
5. Learn the structure and functions of Endocrine glands.
6. Understand the structure, development and function of reproductive organs in

human

Class – B.Sc. II nd year (Sem. III)

Name of the Course: Biochemistry

Paper No –VII

1. Understand the chemical structure and functions of various biomolecules
2. Learn the signaling of biomolecules in cell membrane.
3. Understand the correlation between metabolisms of different types of biomolecules

Class – B.Sc. II nd year (Sem. III)

Name of the Course: Practical Physiology and Biochemistry (Practical based on P-VI & VII)

Paper No –practical Paper X

1. Students able to improve the skills in microscopy, slide preparation, observations, drawings and laboratory techniques.
2. To acquaint the students with operations of the different laboratory equipment.
3. Ability to understand the detection of blood groups of humans.
4. Ability to understand the estimation of blood cell counts, Haemoglobin content in humans.
5. To acquaint the students with operation of clinical procedures for blood & urine analysis.

B.Sc. Second Year, Semester – III

Name of the Course: Skill Enhancement Course (SEC)

Paper no.: SECZ –I (A): HAEMATOLOGY

1. Ability to explain composition and functions of blood.
2. Knowledge about compounds used in processing and storage of blood.
3. Skill to be able to use different techniques used in study of blood cells.
4. Ability to collect, preserve and analyze blood samples.
5. Knowledge of changes in blood composition in disease.

Class – B.Sc. II nd year (Sem. IV)

Name of the Course – Cell Biology and Genetics

Paper No –VIII

1. Understand the structure and function of the cell as the fundamentals for understanding the functioning of all living organisms.

2. Understand structures and various cellular functions associated with the macromolecules found in cells.
3. Acquire knowledge of Mendelian Genetics and its Extension.
4. Graduates will be able to explain and interpret various processes, phenomena, states, and evolutionary tendencies at a biological system level.

Class – B.Sc. II nd year (Sem. IV)

Paper- No: IX: Evolutionary Biology and Genetic Engineering

1. Understand the theories and concepts of evolution.
2. Learn the process of evolution in animals.
3. Understand the patterns of evolutionary changes in animals.
4. Understand the organization and functions of genetic material in the living world.
5. Understand the Recombinant DNA Technology.

Class – B.Sc. II nd year (Sem. IV)

Name of the Course – Practical Paper: Cell Biology, Genetics, Evolutionary Biology and Genetic Engineering (Practical based on P-VIII & IX)

Paper no: Practical Paper XI.

1. Students would be able to prepare temporary squash preparations of onion root tips for mitosis.
2. Demonstrate the genetic traits in Man.
3. Ability to culture Drosophila flies in the laboratory.
4. Ability for mounting of salivary glands of Drosophila larvae.
5. Students are able to understand the outline of Genetic Engineering.
6. Ability to learn the role of Genetic Engineering in biology.

B.Sc. Second Year, Semester – IV

Name of the Course: Skill Enhancement Course (SEC)

Paper no: SECZ- II (D): APICULTURE

1. Ability to understand and describe the life stages and social organization of honey bee species.
2. Ability to correctly explain and perform bee rearing, farming and harvesting practices.
3. Appreciate the economic importance of derivative benefits and byproducts of apiculture.

4. To identify and take remedial measures against the different bee diseases and predators.

Class – B.Sc. III rd year (Sem.V)

Name of the Course – ECOLOGY AND ZOOGEOGRAPHY

Paper No – XII.

1. Basic knowledge of feeding strategy of animals and plants.
2. Knowledge of interdependence of plants and animals.
3. Awareness about various climatic zones of earth.
4. Understanding of climatic and weather phenomena.

Class – B.Sc. III rd year (Sem.V)

Name of the Course – PISICULTURE

Paper No – XIII (A)

1. Students will able to exchange and circulate information, ideas and practical experience on all matters relating to fisheries and their management.
2. Student able with Fishery specific knowledge for entering PG courses or fishery industries.
3. To establish and maintain an appropriate Branch and Specialist section structure to meet the local, specialist and overall needs of fisheries interests.

B.Sc. THIRD Year, Semester – V

Name of the Course: Skill Enhancement Course (VERMICULTURE AND VERMICOMPOSTING)

Paper no: SECZ –III (F)

1. Students will able to collect vermiwash and use of vermiwash.
2. Students will able to study the effect of vermicompost on any plant.
3. Visit to Agricultural Farm/Field to nearby Krishi Vidnyan Kendra to study vermicultures and vermin composting Units.

Class – B.Sc. III rd year (Sem.VI)

Name of the Course – ETHOLOGY, BIOMETRY AND BIOINFORMATICS:

Paper No – PAPER-XIV

1. Students will able to study the behaviour of organism under natural conditions (Ethology).
2. To understand the concepts of Biometry.

3. To get acquainted with and apply the fundamentals of applied statistical methodology.
4. To give students an introduction to the basic practical techniques of bioinformatics.
5. To emphasize the application of bioinformatics and biological databases for problem solving in real-life & research.
6. To familiarize student with the use of a wide variety of internet applications, biological database and to enable them to apply these methods under various situations.

Class – B.Sc. III rd year (Sem.VI)

Name of the Course – AQUACULTURE

Paper No –XV (A)

1. To introduce student to various types of aquaculture and culture methods.
2. To obtain knowledge of fishery science, with a particular emphasis on the biology, assessment, and management of fish and invertebrate fisheries.
3. To create awareness about manmade hazards to aquaculture.
4. To elaborate the role of Larvivorous fishes in relation to public health.

Class – B.Sc. III rd year (Sem.VI)

Name of the Course – (practical) Ecology, Zoo-geography, Ethology, Biometry and Bioinformatics

Paper No – XVI

1. Knowledge of sensory systems in animals.
2. Awareness about nervous systems in animals and their intelligence.
3. A basic sense of behavior and different behaviors.
4. Knowledge of different types of operating systems, general application software.
5. Ability to use internet for searching general information and use of web browser.

Class – B.Sc. III rd year (Sem.VI)

Name of the Course – (practicals) PISICULTURE & AQUACULTURE (Practical based on P-XIII (A) & XV (A)) Paper No – XVII

1. Students will able to understand of taxonomy of fish.
2. Knowledge of feeding methods and habits of fish.
3. Knowledge of general fish anatomy and morphology.
4. Knowledge of geography of India.

B.Sc. THIRD Year, Semester – VI

Name of the Course: Skill Enhancement Course (AQUARIUM KEEPING)

Paper no: SECZ –IV (G)

1. Students will able to Cleaning of aquarium
2. Identification of aquarium fishes
3. Preparation of supplementary food from grains for aquarium fishes
4. Checking fish health
5. Marketing

ELECTRONICS

BSc First Year (Sem. I)

CCEI-A (Paper-I): Basic Electronics and Network Analysis

1. Able to identify variety of electronic components viz. resistors, inductors capacitors and their types & uses.
2. Able to understand I-V characteristics of basic electronic components.
3. Able to apply network theorems to simplify given network.
4. Able to distinguish between DC/AC sources, relate various characteristics of sinusoidal voltage and understand use of resonant circuits.

BSc First Year (Sem. I)

CCEI-B (Paper-II): Basic Digital Electronics

1. Able to distinguish between analogue & digital signal/data.
2. Able to draw logic circuit for a given Boolean expression.
3. Able to analyse, transform, minimize Boolean expression & implement it.

BSc First Year (Sem. II)

CCEII-A (Paper-III): Semiconductor Devices and Electronic Instruments

1. Able to understand I-V characteristics of various semiconductor diodes.
2. Able to understand input/output characteristics of transistor.
3. Able to distinguish between unregulated & regulated power supply and its significance.
4. Able to demonstrate the use of multi-meter & CRO.

BSc First Year (Sem. II)

CCEII-B (Paper-IV): Digital Logic Circuits

1. Able to distinguish between JK Flipflop & JKMS Flipflop; between T Flipflop & D Flipflop.
2. Acquire the skill of using FFs for given application such as register, counter etc.
3. Able to present the use of MUX, DMUX.
4. Able to understand the uses of ADC & DAC.

Paper – V: (Practical based on Paper-I, II, III and IV)

[ELEC V: Laboratory Course Work]

1. Electronic components and use many instruments and verify network theorems practically.
2. Characteristics of diodes and transistors
3. Diodes and transistors and study some diode circuits such as rectifiers and regulators
4. Verification of truth tables of logic gates and Flip-flops.
5. Construction and study various logic circuits.

BSc Second Year (Sem. III)

CCE-IIIA (Paper-VI): Amplifiers

1. Transistor biasing.
2. Analysis of small signal amplifier using h-parameters and designing of CE amplifier.
3. Concept of an ideal amplifier, knowledge of IC 741 and its applications.

BSc Second Year (Sem. III)

CCE-IIIB (Paper-VII): Microprocessor and Its Applications

1. Microprocessor based systems.
2. Instruction set of 8085 and ALP skills.
3. Applications of ICs 74LS373 and Intel 8255.

BSc Second Year (Sem. IV)

CCE-IVA (Paper-VIII): Oscillators and Multivibrators

1. Understanding of positive and negative feedback.
2. Working of an oscillator.
3. Working principle of multivibrators and applications of IC 55
4. Various time base circuits.

BSc Second Year (Sem. IV)

CCE-IVB (Paper-IX): Introduction to Microcontroller Intel 8051

1. Internal architecture of 8051 and function of each block.
2. Instruction set of 8051 and ALP skills.
3. SFRs, Timers and Interrupts of 8051.

CCEP-II (Paper-X): Practical based on P-VI and P-VIII

1. Design, construct and study various transistorised amplifier circuits.
2. Design and study various Op-amp circuits.

3. Construct and study various transistorised oscillator circuits.
4. Construct and study various transistorised multivibrator circuits.
5. Construct and study various UJT circuits.

CCEP-III (Paper-XI): Practical based on P-VII and P-IX

1. Write assembly language programs (ALP) for microprocessor Intel 8085.
2. Execute ALP for microprocessor Intel 8085.
3. Write assembly language programs (ALP) for microcontroller Intel 8051.
4. Execute ALP for microcontroller Intel 8051.

BSc Second Year (Sem. III)

SEC-I (A): Electronics Lab Skills

1. The basic electronic components: resistor, capacitor, inductor, thermistor and LDR.
2. Meters and instruments required for electronics experimentation: analogue multi-meter, signal generator, CRO, digital LCR meter.
3. Practical measurements of ac and dc current and voltage using multi-meter.
4. Conversion of galvanometer into ammeter and voltmeter practically.
5. Use of LCR meter and CRO practically.

BSc Second Year (Sem. IV)

SEC-II (B): Electrical Circuit Skills

1. Simple active and passive circuits
2. Frequency filters.
3. Practical verification of series and parallel combination formulae for R / C / L.
4. Star-delta and delta transformations of resistors,
5. Open and shorts in series and parallel circuits.
6. All types of frequency filters.

BSc Third Year (Sem. V)

DECE-IA (Paper-XII): Communication Electronics-I

1. Understanding of communication systems.
2. Understanding of working of analogue modulation techniques.
3. Understanding of analogue pulse modulation.
4. Understanding of digital pulse modulation.

BSc Third Year (Sem. V)

DECE-I B (Paper-XIII (A)): Power Electronics – I

1. Understanding of working of SCR, DIAC, TRIAC, PMOSFET, IGBT.
2. Knowledge of thyristor triggering circuits.
3. Understanding of issues with series and parallel operation of thyristors.

BSc Third Year (Sem. VI)

DECE-II A (Paper-XIV): Communication Electronics – II

1. Understanding of Radio Receivers.
2. Knowledge of basics of Microwaves.
3. Knowledge of basics of RADAR systems
4. Understanding of basics of Mobile communication and optical fibres.

BSc Third Year (Sem. VI)

DECE-II B (Paper-XV (A)): Power Electronics – II

1. Knowledge of working of controlled rectifiers with R, R-L loads.
2. Understanding of power control circuits.
3. Knowledge of working of choppers and inverters.

Paper-XVI: Practical Based On P- XII and XIV

1. Different modulation techniques.
2. Different demodulation techniques.
3. Measurements of different parameters of optical fibre.

Paper XVII (A): Practical Based On P-XIII (A) and XV (A)

1. Drawing and studying characteristics of different power control devices: UJT, SCR, DIAC, TRIAC
2. Different power control circuits
3. Dopper circuits.
4. Inverter circuits.

BSc Third Year (Sem. V)

Skill Enhance Course –III (A): Linear Circuit Designing

1. Knowledge of basics of some electronic components and circuits of practical importance.

2. Skill of circuit designing for a given requirement.
3. Skill of circuit assembling, testing and troubleshooting.

BSc Third Year (Sem. VI)

Skill Enhance Course –IV (A): Digital Logic Design (DLD)

1. Skill of Digital Logic Design.
2. Skill of designing of a given combinational logic circuit.
3. Skill of designing of a given sequential logic circuit.
4. Fundamental knowledge of PLDs.

COMPUTER SCIENCE

Class – B. SC. I (Sem. I)

Name of the Course – Programming Logic Concepts

Paper No – I

1. Student will be able to understand Computer Fundamentals and Hardware.
2. Student will be able to design algorithms to solve different problems
3. Student will understand how to solve problems using computers

Class – B. SC. I (Sem. I)

Name of the Course – Designing of Web Pages Using HTML

Paper No – II

1. Students will be able to understand the concept of Web
2. Students will be able to use the HTML programming language
3. Understand the principles of creating an effective web page.

Class – B. SC. I (Sem. II)

Name of the Course – Introduction to Data Structure

Paper No – III

1. To develop application using data structures.
2. Students develop knowledge of applications of data structures
3. Ability to implement algorithms for the creation, insertion, deletion, searching etc.

Class – B. SC. I (Sem. II)

Name of the Course – Programming in C Language

Paper No – IV

1. Course is designed to provide complete knowledge of C language to develop logics which will help them to create programs, applications in C.
2. Introduces the more advanced features of the C language.
3. Develops Program writing skill

Class – B. SC. I (Sem. I and II)

Name of the Course – Practical Based On Theory Papers – II & IV

Paper No – V

1. Practical approach to understand the principles of creating an effective web page.
2. The course is designed to provide complete knowledge of C language to develop logics which will help them to create programs.
3. Develops coding skill

Class – B. SC. II (Sem. III)

Name of the Course – Operating System

Paper No – VI

1. To learn fundamentals of Operating System,
2. To understand the structure and organization of the file system,
3. To learn mechanism of OS.

Class – B. SC. II (Sem. III)

Name of the Course – Object Oriented Programming using C++

Paper No – VII

1. To understand how C++ improves C
2. To learn OOPS concepts
3. To learn how to design C++ classes for code reuse.

Skill Enhancement Course (SEC)

Class – B. SC. II (Sem. III)

Name of the Course – Skill Enhancement Course-I

Paper No – SEC I

1. Students would have knowledge of computer hardware and peripherals
2. Students would have knowledge of installations, PC assembly
3. Students would have knowledge of trouble shooting.

Class – B. SC. II (Sem. IV)

Name of the Course – Computer Networks

Paper No – VIII

1. Understanding basics of computer networking, connectivity techniques and related protocols.
2. This introduces the students to computer networks
3. Concentrate on building a firm foundation for understanding data communication.

Class – B. SC. II (Sem. IV)

Name of the Course – Java Programming

Paper No – IX

1. To learn why Java is useful for the design of desktop and web applications.
2. To learn how to implement object-oriented designs with Java.
3. To identify Java language components and how they work together in applications.

Skill Enhancement Course (SEC)

Class – B. SC. II (Sem. IV)

Name of the Course – Skill Enhancement Course-II

Paper No – SEC-II

1. Knowledge of website development and design specialization
2. Knowledge of Google website
3. Hosting free website on Google site

Class – B. SC. II (Sem. III)

Name of the Course – Practical's based on theory papers-VI & VII (OS and C++)

Paper No – X

1. Student will be able to understand the basic components of a Linux operating system
2. Student will be able to understand interactions among the various components of OS.
3. Further, they will be able to independently program in C++

Class – B. SC. III (Sem. IV)

Name of the Course – Practical's based on theory papers- VIII & IX (CN & Java)

Paper No – XI

1. Students will gain expertise in some specific areas of networking such as the design and maintenance of individual networks.
2. On completion of the course the student would be able to write, compile, run, and test simple object oriented Java programs.
3. Understand the Pure Object Oriented Programming

Class – B. SC. III (Sem. V)

Name of the Course – Software Engineering

Paper No – XII

1. Understand Software Engineering Process.
2. Understand Requirements and components of Software Engineering.
3. Understand software design and software testing fundamentals.

Class – B. SC. III (Sem. V)

Name of the Course – Programming in Visual Basic

Paper No – XIII

1. Learn Graphical User Interface Language.
2. Develop applications using GUI Language.

3. Implement VB programs to solve simple problems.

Skill Enhancement Course (SEC)

Class – B. SC. III (Sem. V)

Name of the Course – Skill Enhancement Course-III

Paper No – SEC III

1. Basic Knowledge of System Security
2. In-depth knowledge of formal modelling techniques for secure computer systems
3. Advanced knowledge of common vulnerabilities, attack mechanisms, and methods against computer and information systems

Class – B. SC. III (Sem. VI)

Name of the Course – Software Testing

Paper No – XIV

1. Understand Software Testing Process
2. Understand Various types of software testing
3. Understand how to handle testing process

Class – B. SC. III (Sem. VI)

Name of the Course – Relational Database Management System

Paper No – XV

1. Learn Graphical User Interface Language.
2. Develop applications using GUI Language.
3. Implement VB programs to solve simple problems.

Skill Enhancement Course (SEC)

Class – B. SC. III (Sem. V)

Name of the Course – Skill Enhancement Course-IV

Paper No – SEC IV

1. Website Designing and Website Development
2. Study of sites.google.com for Web development
3. Accessing and Creating a Google Site
4. Adding content, Adding pages
5. Customizing and Publishing a Google Site

Class – B. SC. III (Sem. V and VI)

Name of the Course – (Practical's based on theory papers-XIII&XV)

Paper No – XVI

1. Practical Knowledge of Visual Basic Programming
2. Practical Knowledge of RDBMS and SQL

Class – B. SC. III (Sem. V and VI)
Name of the Course – Project Work
Paper No – XVII

1. Knowledge of Project Development Activity
2. Practical Knowledge Software Development Process
3. Group Working

DAIRY SCIENCE

Class: B. Sc. I (Sem.I)

Name of the Course - Dairy Farming in India.

Paper No. I

1. Know Farming aspects in Livestock so as to prepare themselves for future prospects.
2. Learner can know appreciate geographical distribution and trends in livestock population growth.
3. Learner can understand the roles of livestock in National economic of their socio-economic aspects.
4. Understand the sanitary and hygienic condition in Animal Farm.

Class: B. Sc. I (Sem.I)

Name of the Course - Milk and physiology of lactation.

Paper No. II

1. Learner can know the Physiology of lactation.
2. Understand the factors affecting quality and quantity of Milk.
3. Learner can know the Nutritive value of Milk
4. Learner can understanding differentiates between clean and safe milk for health.

Class: B. Sc. I (Sem- II)

Name of the Course - Processing Technology of Milk

Paper No. III.

1. Know procurement of Milk.
2. Understand the legal standards like HACCP, FSSAI, PFA, BIS ISI etc.
3. Know layout of Milk processing plant.
4. Differentiate between the Good and Bad metals used in Dairy Industry.
5. Understand the Dairy Effluent treatment and disposal.

Class: B. Sc. I (Sem- II)

Name of the Course - Farm Animal Health Management.

Paper No. IV.

1. Differentiate between the Healthy and Sick Animals.
2. Understand the common terminology used in Animal health treatment like Ointment, Tonic, and Lotions.

3. Know the diseases of Cows and Buffaloes.
4. Know the diseases of sheep and Goat.
5. Know the diseases of Pig and Poultry.

Class: B. Sc. I (Annual)

Name of the Course- Practical (Based on theory papers)

Paper No. V.

1. Self employment as Animal Farming owner.
2. Job opportunities as Assistant/ Supervisor in Domestic Animal Farming.
3. Learner can be a Supervisor in Milk Processing plant.
4. Learner can be a chemical assistant in Animal drugs Manufacturing Company.
5. Understanding the Routine Management practices in Farm.

Class: B. Sc.II (Sem- III)

Name of the Course - Dairy Animal Management.

Paper No. VI.

1. Learner can understand the economic livestock production achieved by feed of least cost rations and balanced ration.
2. Student can understand the principals of general management in Dairy animals
3. Students understand the summer management of Buffaloes.
4. Students can know the appreciate dairy farm efficiency measures.
5. Learner can know the different management practices in Animals farm.

Class: B. Sc. (Sem- III)

Name of the Course: Technology of Indigenous Milk Products.

Paper No. VII.

1. Learner can be a dairy consultant.
2. Students can start the cottage dairy industry.
3. Know the knowledge of establishment of small dairy industry in village level.
4. Students can job as a supervisor in dairy plant.
5. Learner can know the traditional dairy milk products in India.

Class: B. Sc. (Sem- IV)

Name of the Course: Sheep, Goat, Pig and Poultry Farming.

Paper No. VIII.

1. Understand Goat rearing has been recommended as the best choice for the rural people in developing country.
2. Know how India ranks first for Goat Genetics resources.
3. Learner that the Sheep are reared for different purposes and can be maintained under diverse environmental condition.
4. Learner can understand that the poultry keeping can be made profitable business.
5. Learner can establish Sheep, Goat Pig and Poultry farm as a job opportunity.

Class: B. Sc. (Sem- IV)

Name of the course: Technology of Western Milk Products.

Paper No. IX.

1. Understand the recent trends in dairy technology.
2. Students can know about Manufacturing of western dairy products.
3. Students can learn the nutritive value of western dairy products.
4. Understand differentiate between Indigenous and Western dairy products.
5. Student can work as a Supervisor in manufacturing unit.

Class: B. Sc. II (Annual)

Name of the Course: Practical (Based on theory papers)

Paper No. X.

1. Self- employment as a Cattle supervisor in well established dairy farm.
2. Job opportunity as a livestock supervisor/ Assistant.
3. Learner can understand the Management of Animals.
4. Learner can be wage employment in milk producing plant as a supervisor.
5. Understanding the Indigenous milk products with their manufacturing technique

Class: B. Sc. II (Annual)

Name of the Course: Practical (Based on theory papers)

Paper No. XI.

1. Self employment as a Sheep, Goat, Pig and Poultry Farm owner.
2. Learner can be a wage employment in farm Assistant.
3. Know differentiate between the Sheep breeds, Goat breeds, Pig breeds etc.
4. Learner can be able to job in livestock assistant in dairy farm
5. Learner can know the western dairy products.

Class: B. Sc. II –I (A)

Skill Enhancement Course (SEC)

Name of the Course: Routine Management Practices in Dairy Farm Animals

Paper No. I

1. Students can be a employee in dairy farm as a supervisor
2. Self employment in organized dairy farm as a livestock assistant.
3. Learner can understand the different routine management practices in dairy farm.
4. Student can be an owner of Cattle farm. Goat farm, Sheep farm etc.

Class: B. Sc. II-II (B)

Skill Enhancement Course (SEC)

Name o the Course: Special Milks

Paper No. II

1. Students can be a self employment as a sweetmeat owner.
2. Understanding the different milk likewise Humanized milk, Acidophilus milk, Homogenized milk etc.
3. Students can be an owner of tea and coffee center.
4. Students are an investor for manufacture of Groundnut milk, Soya bean milk, Peanut milk etc.

Class: B. Sc. III. (SEM -V)

Name of the Course: Animal Nutrition

Paper No.XII

1. Self employment as a fodder producer.
2. Understand the feed and fodders for cattle and Buffalo.
3. Job opportunity as a feed and fodder analyzer.
4. Job as a supervisor in Feed producing unit.

Class: B. Sc. III. (SEM -V)

Name of the Course: Reproduction in Farm Animals

Paper No. XIII

1. Learner can be an Animal Breeding unit owner.
2. Understanding the feed and fodder requirement of pregnant animals, milk production animals and field work animals.
3. Job opportunity in Artificial Insemination center as a Supervisor.
4. Self employment as a semen collection center owner.
5. Understanding the semen collection methods.

Class: B. Sc. III. (SEM-VI)

Name of the Course: Forage Production, Feeds and Feeding.

Paper No.XIV

1. Self employment as a feed processing unit owner.
2. Job opportunity in fodder production, feed production unit as assistant.
3. Learner can know the feeding technique to as per production.
4. Learner can understand the processing technique of feeds.
5. Students can know the preservation technique of fodder likewise Silage and Hay Making.

Class: B. Sc. III (SEM-VI)

Name of the Course: Animal Genetics and Breeding

Paper No. XV

1. Self employment as Artificial Insemination center owner.
2. Job opportunity in Animal Genetic Conservation center as a supervisor.
3. Learner can be a wage employ in Animal Breeding center.
4. Understanding the methods of Animal breeding methods in cattle and Buffalo.
5. Students can understand the Genetic Animals for domestic.

Class: B. Sc. III (Annual)

Name of the Course: Practical (Based on theory papers)

Paper No.XVI

1. Self employment as an Animal Nutritional expert.
2. Job opportunity as an Artificial Insemination center.
3. Learner can work as a Semen collection center owner.
4. Learner can be an assistant in feed and fodder production center.
5. Students can be an owner of Animal feed processing unit.

Class: B. Sc. III (Annual)

Name of the Course: Practical (Based on theory papers)

Paper No. XVII

1. Student can be an Animal Genetic center owner.
2. Self employment as an assistant in Animal Breeding farm.
3. Student can know about the Animal Genetic Resources.
4. Student can be an owner of Fodder Production unit.

5. Job as an Assistant/ supervisor in processing of feeds and fodder factory.

Class: B. Sc. III-III (A)

Skill Enhancement Course (SEC)

Name o the Course: Feed Processing and Preparation

Paper No. III

1. Job opportunity in an assistant in Food Processing unit.
2. Self Employment as a Fodder producing unit owner.
3. Understanding the fodder preservation technique likewise Silage and Hay Making.
4. Learner can know the differentiation between feeds and Fodders.
5. Students can be a unit owner of Conservation of feed and fodder.

Class: B. Sc. III- IV (B)

Skill Enhancement Course (SEC)

Name o the Course: Artificial Insemination

Paper No. IV

1. Job Opportunity in an Artificial Insemination center as a supervisor.
2. Students can know the methods of Semen collection from different Animals.
3. Job opportunity as an Assistant in a semen collection center.
4. Students can know the methods of semen collection methods from different methods.
5. Students can know the preparation of different methods of semen extenders.

BACHALOR OF COMPUTER APPLICATION (BCA)

Class – BCA I (Sem. I)

Name of the Course – Fundamentals of Computer Science and Information Technology

Paper No – BCA-101

1. To learn Basic Function of Devices like I/O, HDD etc.
2. To Understand the Fundamental of Software and Hardware.
3. To Understand the Concept of Operating System and Network.

Class – BCA I (Sem. I)

Name of the Course – Office Automation

Paper No – BCA-102

1. After completion of this course student will be able to understand the computer software, hardware, made available to simplify and automate a variety of office operations such as data processing, data manipulating and data presentation with various application those are presents in Microsoft office tools packages.
2. Students is able to work on excel sheet and simplify the complex task using MS-Excel formulas
3. Student is able to work in MS-Power Point and prepare the Slides to represent the require topics

Class – BCA I (Sem. I)

Name of the Course – Programming in C

Paper No – BCA-103

1. To study of structure of programming languages, structure of c program.
2. To study different keyword for making program.
3. To develop programs using operators and control statement.
4. To describe an array, structure, union, string and functions. Student are able to develop application software.

Class – BCA I (Sem. I)

Name of the Course – Mathematical Technique in Computer Science (MTCS)

Paper No – BCA-104 B

1. Student is Able to use standard mathematical techniques to solve elementary problem.

2. To Understand the nature of mathematical proof & be able to write clear & concise proof.
3. How is able to understand how mathematical problems are useful in computer science.

Class – BCA I (Sem. I)
Name of the Course – Business Communication
Paper No – BCA-105 B

1. To Understand and demonstrate Basic English usages for their different purposes.
2. To Clear entrance examination and aptitude tests.
3. To write various letters, reports required for professional life.

Class – BCA I (Sem. I)
Name of the Course – C Programming
Paper No – BCA-106

1. Student is practically able to know the utilization of looping statement in c programming language
2. Student is practically able to defined his own functions as per the requirements
3. Student is able to utilize the inbuilt library functions

Class – BCA I (Sem. I)
Name of the Course – Office Automation
Paper No – BCA-107

1. Students practically able to create, edit the text MS Word file
2. Students are able to format or decorate the documents.
3. Students are able to use MS EXCEL and MS PowerPoint in an organizations.

Class – BCA I (Sem. II)
Name of the Course – Business Accounting With Tally
Paper No – BCA-201

1. To Students will able to do Accounting Using Tally
2. Students will able to learn about the conceptual framework of tally useful in ERP.
3. Student will able to record the transaction and prepare the final accounts.

Class – BCA I (Sem. II)
Name of the Course – Organizational Behaviour
Paper No – BCA-202

1. Students will become more self-aware and will have identifies areas of development for long term effectiveness.
2. Students will understand the role individuals play collectively to perform in the organization
3. Student will be aware ethics in organization.

Class – BCA I (Sem. II)
Name of the Course – Web Technology
Paper No – BCA-203

1. Be able to use HTML coding
2. Be able to design CSS for HTML page
3. Be able to use JavaScript programming

Class – BCA I (Sem. II)
Name of the Course – Elective : E-Commerce
Paper No – BCA-204 A

1. At the end of the course, the students is expected to realize the problems involved in designing and building e-commerce systems.
2. Understand the need to design EC systems that fully meet the requirements of the intended users.
3. Appreciate the need to ensure that the implementation of a design is adequately tested to ensure that the completed EC system meets the specifications.

Class – BCA I (Sem. II)
Name of the Course – Open Elective courses Corporate English
Paper No – BCA-205 B

1. Understand and demonstrate Basic English usages for their different purposes.
2. Clear entrance examination and aptitude tests.
3. Write various letters, reports required for professional life.

Class – BCA I (Sem. II)
Name of the Course – Practical Tally.ERP 9
Paper No – BCA-206

1. Student is able to understand the basic fundamental of tally and it use on corporate
2. Student is able to record daily transactions
3. Students are able to create and view report

Class – BCA I (Sem. II)
Name of the Course - Practical Web Technology
Paper No – BCA-207

1. Students are able to practically understand basic of HTML and design static web page.
2. Students practically able to design the CSS
3. Students are practically able to code in javascript.

Class – BCA II (Sem. III)
Name of the Course – Programming in C++
Paper No – BCA-301

1. Students are able to define objects which the core part of object oriented programming languages.
2. It helps to develop and build logic for programming among the learners.
3. Students are able to develop application software using C++.

Class – BCA II (Sem. III)
Name of the Course – Operating System Concepts
Paper No – BCA-302

1. To understand the different Concept of Operating System.
2. To understand memory utilization of operating system
3. To understand Processor Management

Class – BCA II (Sem. III)
Name of the Course – Data Base Management System
Paper No – BCA-303

1. Able to master the basic concepts and understand the applications of database systems.
2. Able to construct an Entity-Relationship (E-R) model from specifications and to transform to relational model.
3. Able to construct unary/binary/set/aggregate queries in Relational Algebra.
4. Understand and apply database normalization principles.

Class – BCA II (Sem. III)
Name of the Course –Elective Introduction to Multimedia
Paper No – BCA-304

1. Student will learn the different content forms of Multimedia such as text, audio, images, animations, video and interactive content.
2. Student able to learn various storage media available
3. Student will learn various classification of images and vedios.

Class – BCA II (Sem. III)

Name of the Course – Open Elective Numerical Aptitude

Paper No – BCA-305 B

1. On successful completion of the course the students will be able to understand the basic concepts of numerical ability
2. Students is able to solve questions in competitive exams
3. Student is able to clear placement exams

Class – BCA II (Sem. III)

Name of the Course – Practical C++ Programming

Paper No – BCA-306

1. Student is practically able to know the use of conditional and looping statement in c++ programming language
2. Student is practically able to specify his user defined functions as per the requirements
3. Student is able to use the various inbuilt library functions exist in c++.

Class – BCA II (Sem. III)

Name of the Course – DBMS

Paper No – BCA-307

1. Student is able to practically understand the basic functionality of DBMS software
2. Student is able to able to design DDL, DML and DQL commands
3. Student is able to create View and various queries.

Class – BCA II (Sem. IV)

Name of the Course – Programming in JAVA

Paper No – BCA-401

1. Students learn about the concepts like interface, packages etc.
2. Students will learn about the Basic concept of oops.
3. Students are able to develop stand-alone Java applications and web applications.

Class – BCA II (Sem. IV)

Name of the Course – Data Structure and Algorithm
Paper No – BCA-402

1. Students are able to create and use various data structures like Strings, Arrays, Linked Lists, and Trees.
2. Students able to understand various sorting techniques and its utilization.
3. Develop Problem solving skill using algorithm.

Class – BCA II (Sem. IV)
Name of the Course – RDBMS
Paper No – BCA-403

1. The course will demonstrate an understanding of the basic & advanced features of RDBMS.
2. The course will demonstrate the various database tables and joins them using SQL commands.
3. Students able to develop structured query language (SQL) queries to create, read, update, and delete relational database data.

Class – BCA II (Sem. IV)
Name of the Course – Elective Computer Graphics
Paper No – BCA-404 B

1. Knowledge of working of display systems.
2. Skill to execute various Scan Conversion algorithms in laboratory so as to draw Graphics primitives.
3. Familiarization with 2D graphics.
4. Skill to execute various 2D transformations on graphics.
5. Use of various graphics packages/functions on graphic.

Class – BCA II (Sem. IV)
Name of the Course – Logical Reasoning
Paper No – BCA-405 B

1. Understand the basic concepts of logical reasoning skills.
2. Solve campus placements aptitude papers
3. Solve various competitive exams like MPSC, UPSC and etc.

Class – BCA II (Sem. IV)
Name of the Course – Practical JAVA Programming
Paper No – BCA-406

1. Student is practically able to make the utilization of various conditional and looping statement in Java programming language
2. Student is practically able to define user defined functions as per the requirements
3. Student is able to use the various inbuilt library functions exist in Java and use of various OOP concept like inheritance, polymorphism abstraction and soon.

Class – BCA II (Sem. IV)

Name of the Course – Practical RDBMS

Paper No – BCA-407

1. The course will demonstrate an understanding of the basic & advanced features of RDBMS.
2. The course will demonstrate the various database tables and joins them using SQL commands.
3. Students able to develop structured query language (SQL) queries to create, read, update, and delete relational database data.

Class – BCA III (Sem. V)

Name of the Course – System Analysis and Design (SAAD)

Paper No – BCA- 501

1. Upon successful completion of this course, you will be able to gather data to analyze and specify the requirements of a system.
2. Design system components and environments & build general and detailed models that assist programmers in implementing a system.
3. It also design a database for storing data, a user interface for data input and output, and controls to protect the system and its data.

Class – BCA III (Sem. V)

Name of the Course – Web Development and PHP Programming

Paper No – BCA- 502

1. Able to design dynamic and interactive web pages, websites.
2. Able to run PHP scripts on server and retrieve results..
3. Able to handle databases like MySQL using PHP in web sites.

Class – BCA III (Sem. V)

Name of the Course – Mobile Application Development

Paper No – BCA- 503

1. Install and use appropriate tools for Android development, including IDE, device emulator, and profiling tools.
2. Understand the Android OS architecture.
3. Understand the Android application architecture, including the roles of the task stack, activities, & services.

Class – BCA III (Sem. V)

Name of the Course – Elective Computer Network

Paper No – BCA- 504

1. Recognize the technological trends of Computer Networking.
2. Discuss the key technological components of the Network.
3. Evaluate the challenges in building networks.

Class – BCA III (Sem. V)

Name of the Course – Open Elective Linux Operating System

Paper No – BCA- 505 B

1. Awareness of existing demanding trends in IT industry in order to get placement & research in open source market.
2. Understand the Linux OS architecture.
3. Install and use different types of distributions available in market.

Class – BCA III (Sem. V)

Name of the Course – Lab- PHP Programming

Paper No – BCA- 506

1. Student is able to design static and dynamic web page in php
2. Student is able to interact with DBMS software
3. Student is able to create dashboard

Class – BCA III (Sem. V)

Name of the Course – Lab- Mobile Application Development

Paper No – BCA- 507

1. Student learn the android architecture
2. Student is able to develop simple App in Android
3. Student is able to understand basic of android

Class – BCA III (Sem. VI)

Name of the Course – Software Engineering

Paper No – BCA- 601

1. How to apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.
2. An ability to work in one or more significant application domains. Work as an individual and as part of a multidisciplinary team to develop and deliver quality software.
3. Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle.
4. Demonstrate an ability to use the techniques and tools necessary for engineering practice.
5. Demonstrate an ability to use the techniques and tools necessary for engineering practice

Class – BCA III (Sem. VI)

Name of the Course – Python

Paper No – BCA- 602

1. Explain basic principles of Python programming language
2. Implement object oriented concepts
3. Implement database and GUI applications

Class – BCA III (Sem. VI)

Name of the Course – Project Development activity and Seminar

Paper No – BCA- 603

1. Student is able to understand how to apply programming concept on real time application.
2. Student is able to work on real time project which assist them to prepare for corporate life.
3. Through Seminar Students inculcate Presentation Skills.

Class – BCA III (Sem. VI)

Name of the Course – Elective Windows Programming

Paper No – BCA- 604 A

1. To develop background knowledge as well as core expertise in C#.
2. To develop background knowledge as well as core expertise in C#.
3. To learn the object oriented concepts.

Class – BCA III (Sem. VI)

Name of the Course – Open Elective Cyber Security

Paper No – BCA- 605 B

1. Analyze and evaluate the cyber security needs of an organization.
2. Determine and analyze software vulnerabilities and security solutions to reduce the risk of exploitation.
3. Measure the performance and troubleshoot cyber security systems.
4. Implement cyber security solutions and use of cyber security, information assurance, and cyber/computer forensics software/tools.

Class – BCA III (Sem. VI)

Name of the Course – Lab- Python

Paper No – BCA- 606

1. Student is able to interact with command prompt of the python.
2. Student is able to Design GUI.
3. Student is able to design the web site in flask.

Class – BCA III (Sem. VI)

Name of the Course – Lab- Windows Programming

Paper No – BCA- 607

1. Student is able to application in windows as per requirement
2. Student is able to connect to database through windows
3. Student is able to implement various object oriented concept in windows application.

BACHALOR OF COMPUTER SCIENCE (BCS)

Class – B.Sc (CS) -I (Semester-I)

Name of the Paper: - Basic of Computer Science

Paper No: - BCS-101

1. Learners will to understand the Fundamental of concept of Software and Hardware.
2. Learner understands the Concept of Operating System and Network.
3. Learner can learn the functional units and classify the types of computer and also learn how the individual computers interact with other computing systems and devices.

Class – B.Sc (CS) -I (Semester-I)

Name of the Paper:- Introduction to Programming Language Using C (Part 1)

Paper No: - BCS-102

1. Learner recognizes and understands the syntax and construction of C programming code.
2. Learner understands the logic, write the algorithm and draw a flow chart of a given problem.
3. During the practical knowledge enhancing learner are able to identify and correct logical errors encountered during execution.
4. After the completion of this course, the students will be able to develop applications.

Class – B.Sc (CS) -I (Semester-I)

Name of the Paper: - Web Technologies

Paper No: - BCS-103

1. Learners are able to enhance the ability of insert a graphic within a web page and to improve the skills to Create, validate and publish a web page.
2. Learner uses their learned skills, knowledge and abilities to develop web sites for the internet.
3. At the end of the course, learner should be able to design and implement dynamic websites with good aesthetic sense of designing.

Class – B.Sc (CS) -I (Semester-I)

Name of the Paper: - Office Automation

Paper No: - BCS-104 A

1. Learners would be able to documents, spreadsheets, make small presentations and would be acquainted with internet.

2. On completion of the course, the trainees are expected to: ▫ exhibit improved understanding of computer operations.
3. Learner are able to understand operations of office automation such as data processing, data manipulating and data presentation with various application those are presents in Microsoft office tools packages.

Class – B.sc (CS) -I (Semester-I)

Name of the Paper: - Communication Skills – 1

Paper No: - BCS-105 B

1. Learner is understood and demonstrates Basic English usages for their different purposes.
2. Based on learning, learner is able to clear entrance examination and aptitude tests.
3. Write various letters, reports required for professional life.
4. Learner will develop knowledge, skills, and judgment around human communication that facilitate their ability to work collaboratively with others.

Class – B.Sc (CS) -I (Semester-I)

Name of the Paper: - C Programming part-1

Paper No:- BCS-106

1. The learner is will gain a basic structure of C Programming for development of software.
2. Learners understand how to access and use library functions.
3. Learners understand function declaration and definition.
4. Learners understand proper use of user defined functions.

Class – B.Sc (CS) -I (Semester-I)

Name of the Paper: - Web Technologies and Office Automation

Paper No: - BCS-107

1. Learner would understand to web page for describing the structure of HTML, web page for image tag with all attributes, java script to documents in web page.
2. Learner to know that how word Opening screen, excel opening screen, PowerPoint opening screen, access opening screen.
3. Learner are understand how related to Microsoft editor software such as Table Formatting, creating charts, Working of Formulas in Excel, database file in Access, Custom Dictionary & Go to Dialog Box.

Class – B.Sc (CS) -I (Semester-II)
Name of the Paper: - Operating System
Paper No: - BCS-201

1. Learners are understood fundamental operating system abstractions such as processes, threads, files, semaphores, IPC abstractions, shared memory regions, etc.
2. Learner learns the case studies of contemporary operating systems.
3. Learner understands the different services provided by Operating System at different level.

Class – B.Sc (CS) -I (Semester-II)
Name of the Paper:- Introduction to Programming Language Using C (Part 2)
Paper No: - BCS-202

1. Learner recognizes and understands the syntax and construction of C programming code.
2. Learner understands the logic, write the algorithm and draw a flow chart of a given problem.
3. During the practical knowledge enhancing learner are able to identify and correct logical errors encountered during execution.
4. After the completion of this course, the students will be able to develop applications.

Class – B.Sc (CS) -I (Semester-II)
Name of the Paper: - Database Management System
Paper No: - BCS-203

1. Understand the basic principles of database management systems.
2. Learners are learning how to draw Entity-Relationship diagrams to represent simple database application scenarios.
3. Upon successful completion of this course, learners should be able to describe the fundamental elements of relational database management.

Class – B.Sc (CS) -I (Semester-II)
Name of the Paper: - 8085 Microprocessor
Paper No: - BCS-204 B

1. Students will be able to identify, formulate and solve society and industries related problems.

2. Learners are understanding techniques for faster execution of instruction and increase speed of operation of 8085 Microprocessor.
3. Learners recall and apply a basic concept of digital fundamentals to Microprocessor based personal computer system.
4. Learner to train their practical knowledge through laboratory experiments.

Class – B.Sc (CS) -I (Semester-II)

Name of the Paper: - Communication Skills – 2

Paper No: - BCS-205 B

1. Based on learning, learner is able to clear entrance examination and aptitude tests.
2. Write various letters, reports required for professional life.
3. Learner will develop knowledge, skills, and judgment around human communication that facilitate their ability to work collaboratively with others.

Class – B.Sc (CS) -I (Semester-II)

Name of the Paper: - C Programming part-2

Paper No:- BCS-206

1. Learners understand how to access and use library functions.
2. The learner is will gain a Basic structure of C Programming for development of software.
3. Learners understand function declaration and definition.
4. Learners understand proper use of user defined functions.

Class – B.Sc (CS) -I (Semester-II)

Name of the Paper: - DBMS and DTP

Paper No: - BCS-207

1. Learner would understand basic database languages.
2. Learner to learn how to data insert, delete, update and select on database.
3. Learner should be able to understand to Letter Head in PageMaker, Artwork in Photoshop, image in Photoshop, Visiting Card in PageMaker.

Class – B.sc (CS) -II (Semester-III)

Name of the Paper: - Object Oriented Programming

Paper No: - BCS-301

1. Learners should gain the knowledge about basic C++ language syntax, and semantics to write program use the concept of variable, conditional and loops.

2. Learners understand the principle of inheritance, package and interface.
3. Learners are able to identify classes, objects, methods, of class relationship among them needed for specific problem.
4. Learner understands the fundamental concept of C++ including defining classes, objects, invoke methods etc.

Class – B.sc (CS) -II (Semester-III)

Name of the Paper:- Computer Network

Paper No: - BCS-302

1. Learner will gain valuable skills in computer network.
2. Learner should be learning about the network switch, routing, system and network administration.
3. Learner should be learning about computer network security, web programming, and database and project management.

Class – B.sc (CS) -II (Semester-III)

Name of the Paper: - Data structure and Algorithms

Paper No: - BCS-303

1. Learners will increase the ability to program data structure and use them implementation of abstract.
2. Learner able to device novel solutions to small scale programming challenges involving data structure and recursion.
3. Learner will be able to make algorithm of software.

Class – B.sc (CS) -II (Semester-III)

Name of the Paper: - Mathematical Technique in Computer Science (MTCS)

Paper No: - BCS-304 A

1. Learner will be able to compute matrix calculation using Maxima software.
2. Learner will be able to formulate problems in the language of sets and perform set operations.
3. It will help learner to develop skills in thinking and analyzing problems from a probabilistic and statistical point of view.

Class – B.sc (CS) -II (Semester-III)

Name of the Paper: - Numerical Abilities

Paper No: - BCS-305 B

1. Learner will able to apply the fundamental principle of counting, multiplication principle.
2. Learner able to Handle large data and analyze it by statistical tools.
3. Learner are understood how to use statistical tools in real life situation.

Class – B.sc (CS) -II (Semester-III)

Name of the Paper: - C++ Programming

Paper No: - BCS-306

1. Learner able to understand the concept of object oriented programming.
2. Use the benefits of object oriented design and learner will understand when it is an appropriate methodology to use.
3. Learners are understood to how design object oriented solutions for small systems involving multiple objects.
4. After the completion of course learner will able to make some software.

Class – B.sc (CS) -II (Semester-III)

Name of the Paper: - Data Structure and Algorithms

Paper No: - BCS-307

1. Learners understand different methods of organizing large amount of data using data structure.
2. Learner able to choose appropriate data structure as applied to specified problem definition.
3. Learner able to understand internal structure of compiler and interpreters.
4. Learner able to compute the complexity of various algorithms.

Class – B.sc (CS) -II (Semester-IV)

Name of the Paper: - Programming in JAVA

Paper No: - BCS-401

1. Learners understand to implement object oriented programming concepts.
2. Learner able to identify classes, objects, members of a class and the relationships among them needed for a finding the solution to specific problem.
3. Learners understand how to use database programming using Java.
4. Learner should understand concept of packages and study how to implement them.

Class – B.sc (CS) -II (Semester-IV)

Name of the Paper: - Software Engineering

Paper No: - BCS-402

1. Learners are able to design and conduct experiments, as well as to analyze and interpret data.
2. Learner are able to know how identify, formulate, and solve engineering problems.
3. Learner able to analyze, design, verify, validate, implement, apply, and maintain software systems.
4. Learner able to understand different phases of SDLC.

Class – B.sc (CS) -II (Semester-IV)

Name of the Paper: - Relational Database Management System

Paper No: - BCS-403

1. Understand the basic principles of database management systems.
2. Learner able to understand database concepts and database management system software.
3. Learner understood how to analyze and design a real database application.

Class – B.sc (CS) -II (Semester-IV)

Name of the Paper: - Essentials of Computer Security

Paper No: - BCS-404 B

1. Learner should understand basics of Cryptography and Network Security.
2. Learner should be able to secure a message over insecure channel by various means.
3. Learners learn about how to maintain the Confidentiality, Integrity and Availability of a data.
4. Learners understand various protocols for network security to protect against the threats in the networks.

Class – B.sc (CS) -II (Semester-IV)

Name of the Paper: - Logical Reasoning

Paper No: - BCS-405 B

1. Based on learning, learner is able to clear entrance examination and aptitude tests.
2. Learner will get deeper knowledge of mathematics.
3. Learner will practice logical reasoning, problem solving and defence of a small project.

Class – B.sc (CS) -II (Semester-IV)

Name of the Paper: - RDBMS

Paper No:- BCS-406

1. Learners understand how to access and use library functions.
2. Learner are able to know that how develop and evaluate a real database application using a database management system.
3. Learners are able to develop applications using PL/SQL & front end tools.

Class – B.sc (CS) -II (Semester-IV)

Name of the Paper: - JAVA Programming

Paper No: - BCS-407

1. Learners understand how to design and develop applets.
2. Learner will understand how to design graphical user interface in Java programs.
3. Learner will be able to design User Interface using Swing and AWT.
4. Learner will able to develop a game application using multithreading.

Class – B.sc (CS) -III (Semester-V)

Name of the Paper: - Windows Programming

Paper No: - BCS-501

1. Learners will to understand the Fundamental of concept of windows programming.
2. The Learner will use Visual Basic.Net to build Windows applications using structured and object-based programming techniques. S
3. Learner will be exposed skills at an Intermediate level.

Class – B.sc (CS) -III (Semester-V)

Name of the Paper: - Python

Paper No: - BCS-502

1. Learner to learn and understand Python programming basics and paradigm.
2. Learner to learn and understand python looping, control statements and string manipulations.
3. Able to develop simple web application using server side Python programming and Database Connectivity using My SQL.
4. Will understand how to build well-formed XML Document and implement Web Service using Python.

Class – B.sc (CS) -III (Semester-V)

Name of the Paper: - Data Science

Paper No: - BCS-503

1. Learner should be able to use appropriate models of analysis, assess the quality of input, derive insight from results, and investigate potential issues.
2. Learner should be understood how to apply computing theory, languages, and algorithms, as well as mathematical and statistical models.
3. Learner should understand principles of optimization to appropriately formulate and use data analyses.
4. Learner should be able how to formulate and use appropriate models of data analysis to solve hidden solutions to business-related challenges.

Class – B.sc (CS) -III (Semester-V)

Name of the Paper: - Basics of Linux (Elective)

Paper No: - BCS-504 B

1. Learner will be able to understand the basic commands of Linux operating system and can write shell scripts.
2. Learner will be able to create file systems and directories and operate them.
3. Learner will be able to create processes background and fore ground etc.
4. Learners will be create shared memory segments, pipes, message queues and can exercise inter-process communication

Class – B.sc (CS) -III (Semester-V)

Name of the Paper: - System Analysis and Design (SAD)

Paper No: - BCS-505 B

1. Learner understanding the life cycle of a systems development project.
2. Learner should be understood of the analysis and development techniques required as a team member of a medium-scale information systems development project.
3. Learner understanding of the ways in which an analyst's interaction with system sponsors and users play a part in information systems development

Class – B.sc (CS) -III (Semester-V)

Name of the Paper: - Windows Application

Paper No:- BCS-506

1. Learner should able to design and develop program with GUI interface.
2. Learner will be able to understood code program and develop interface using VB.net.
3. Learner able to perform test, resolve defect and revise existing code.
4. Learner should able to make software by using in Vb.net and ADO. Net concept.

Class – B.sc (CS) -III (Semester-V)

Name of the Paper: - Python

Paper No: - BCS-507

1. Learner to learn and understand python looping, control statements and string manipulations.
2. Learner should be made familiar with the concepts of GUI controls and designing GUI applications.
3. Learner to learn and know the concepts of file handling, exception handling and database connectivity.

Class – B.sc (CS) -III (Semester-VI)

Name of the Paper: - Mobile Application Development

Paper No: - BCS-601

1. Learner should be familiar with new technology for mobile application.
2. Learner should be able to design the GUI of application and connect with backend.
3. Learner understood how to use location based services, to develop android services and publish android apps.

Class – B.sc (CS) -III (Semester-VI)

Name of the Paper: - Fundamental of Image Processing

Paper No: - BCS-602

1. Learner recognizes and understands the basic concept of image processing.
2. Learner should expose to simple image processing techniques.
3. Learner should learn MATLAB concept.
4. Learner should understand how to apply image processing technique to modify image.

Class – B.sc (CS) -III (Semester-VI)

Name of the Paper: - Project Develop Activity and Seminar

Paper No: - BCS-603

1. Learner should be able to design and construct a hardware and software system, component, or process to meet desired needs.
2. Learners are provided to work on multidisciplinary Problems.
3. Learner should be able to work as professionals, with portfolio ranging from data management, network configuration, designing hardware and database.

4. Learner should study and understand current trends in Information Technology and prepare presentation material.

Class – B.sc (CS) -III (Semester-VI)

Name of the Paper: - Software Process Management

Paper No: - BCS-604 B

1. Learner learns basic principles of Software Process management.
2. Learner should be understood Software Engineering concepts, methodologies and best practices.
3. Learner Learn Software Engineering principles and approach used in industry.

Class – B.sc (CS) -III (Semester-VI)

Name of the Paper: - Computer Network Essential

Paper No: - BCS-605 B

1. Learner to know the network security tools and applications and to understand the system level security used.
2. Learner to know the computer network tools and applications and to understand the system level security used.

Class – B.sc (CS) -III (Semester-VI)

Name of the Paper: - Image Processing

Paper No: - BCS-606

1. Learners understand how to apply image enhancement and restoration techniques.
2. Learner should be familiar with image compression and segmentation techniques.
3. Learner should be able how to apply image enhancement and restoration techniques.

Class – B.sc (CS) -III (Semester-VI)

Name of the Paper: - Mobile Application Development

Paper No: - BCS-607

1. Learner understanding Android as new technology for developing mobile application.
2. Learner understanding design of GUI, database and provide connection.
3. Learner should understanding android services and publishing the android application on market.

M. SC. COMPUTER SCIENCE

Class –M.SC. I (Sem. I)

Name of the Course – Computer Architecture and Microprocessor

Paper Code: -CS-101

1. Introduction to Computer Architecture & Organisation, CPU module and Architecture of Intel's 8085 microprocessor
2. Student will be able to Instructions of 8085/8086 microprocessor and programming exercise and Memory and input/output port interfacing.
3. Different data transfer schemes. Direct Memory Access and Memory addressing technique, Interrupts, Instructions of 8086 microprocessor and programming exercise.

Class – M.SC. I (Sem. I)

Name of the Course -OOP concepts using C++

Paper Code:-CS-102

1. Students will be able Describe the procedural and object oriented paradigm with concepts of streams, classes, functions, data and objects.
2. Students are Understand dynamic memory management techniques using pointers, constructors, destructors, etc. and describe the concept of function overloading, operator overloading, virtual functions and polymorphism.
3. Students are Classify inheritance with the understanding of early and late binding, usage of exception handling, generic programming and Demonstrate the use of various OOPs concepts.

Class –M.SC. I (Sem. I)

Name of the Course – Mathematical Foundation for Computer Science

Paper Code: -CS-103

1. Students Perform operations on various discrete structures such as sets, functions, relations, and sequences.
2. Students are capable for Ability to solve problems using Counting techniques, Permutation and Combination, Recursion and generating functions.
3. Students are capable to study for write a algorithms and use of graphs and trees as tools to visualize and simplify Problems and Use of K-Maps and Truth Tables to construct and verify correctness of a Boolean expression. Understand the various properties of algebraic systems like Rings, Monoids and Groups.

Class –M.SC. I (Sem. I)

Name of the Course – Relational Database Management System

Paper Code:- CS-104 A

1. Students are get understand Describe DBMS architecture, physical and logical database designs, database modelling, relational, hierarchical and network models, Identify basic database storage structures and access techniques such as file organizations, indexing methods including B-tree, and hashing.
2. Learn and apply structured query language (SQL) for database definition and database manipulation. Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database.
3. Understand various transaction processing, concurrency control mechanisms and database protection

Class M.SC. I (Sem. I)

Name of the Course – Practical Based On Theory Papers – [Lab -1]: C++ Programming

Paper code – Lab-1: CS-105

1. Students creating simple programs using classes and objects in C++ and Implement Object Oriented Programming Concepts in C++.
2. Students are make creative work to Develop applications using stream I/O and file I/O, Implement simple graphical user interfaces.
3. Students Implement Object Oriented Programs using templates and exceptional handling concepts, perform and make and run any programme code.

Class –M.SC. I (Sem. I)

Name of the Course -: ALP using 8086 Microprocessor

Paper Code:– Lab-2-CS-106

1. To learn this course concentrates on the practical part of Computer Organization by using Assembly language. This course allows students to practice writing programs based on the concepts the will learn through the course by giving the students different types of problems to be solved using an emulator.
2. To understand the Teach student's basic principles about computer architecture, machine language, and low level programming, teach students enough assembly language to enhance their knowledge on today's most widely used microcomputer family, improving students systems programming skills through programming exercises carried out by students.

3. Students are expected to implement solutions to problems using the concepts they will take through the course.

Class –M.SC. I (Sem. I)

Name of the Course – [Open Elective] Introduction to E-commerce

Paper Code:– CS-107 B

1. To understand students how An ability to identify and analyse user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems
2. Students are an ability to effectively integrate IT-based solutions into the user environment.
3. Students learn an ability to use current techniques, skills, and tools necessary for computing practice and another application learn students are to make manual data in to computerised data.

Skill Enhancement Course (SEC)

Class –M.SC. I (Sem. I)

Name of the Course –SK-01: PC Assembly and Maintenance

Paper Code – SK-01

1. Students would have knowledge of computer hardware and peripheralsStudents will learn about Design of basic computer. Students will know what are registers, various types of registers and interfacing various registers.
2. Students will learn about the architecture of common bus system. Students will learn about the different micro-operations used. Students will learn about Instruction Cycle, Interrupt Cycle, and installation software.
3. Students will learn about I/O interface, DMA controller, modes of data transfer and various address modes, memory unit Students will learn how to assemble a Maintenance and Troubleshooting.

Class –M Sc. I (Sem. II)

Name of the Course – Design and Analysis of Algorithms

Paper Code –CS-201

1. Argue the correctness of algorithms using inductive proofs and invariants, Analyze worst-case running times of algorithms using asymptotic analysis. Explain what competitive analysis is and to which situations it applies. Perform competitive analysis.

2. Describe the divide-and-conquer paradigm and explain when an algorithmic design situation calls for it. Recite algorithms that employ this paradigm. Synthesize divide-and-conquer algorithms. Derive and solve recurrences describing the performance of divide-and-conquer algorithms.
3. Describe the dynamic-programming paradigm and explain when an algorithmic design situation calls for it. Recite algorithms that employ this paradigm. Synthesize dynamic-programming algorithms, and analyze them.

Class -M.Sc. I (Sem. II)

Name of the Course –Software Engineering

Paper Code – CS-202

- 1.To learn How to apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment, An ability to work in one or more significant application domains
2. Students Work as an individual and as part of a multidisciplinary team to develop and deliver quality software, demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle
3. Students learn demonstrate an ability to use the techniques and tools necessary for engineering practice

Class -M.Sc. I (Sem. II)

Name of the Course – Programming with VB.NET

Paper Code –CS-203

1. Students capable to Design, create, build, and debug Visual Basic applications, Explore Visual Basic's Integrated Development Environment (IDE).
2. Students Implement syntax rules in Visual Basic programs, Explain variables and data types used in program development. Apply arithmetic operations for displaying numeric output, Write and apply decision structures for determining different operations arrays for sorting, calculating, and displaying of data.
3. Write Visual Basic programs using object-oriented programming techniques including classes, objects, methods, instance variables, composition, and inheritance, and polymorphism Write Windows applications using forms, controls, and events.

Class -M.Sc. I (Sem. II)

Name of the Course – Elective Subject Compiler Designing

Paper Code –CS-204 B

1. students learn phases to construct parser - design and implement a single-symbol-look ahead, top-down, look ahead parser from a BNF grammar () design symbol table - design a symbol table format for the language defined by a BNF grammar () implement symbol table construction.
2. Students learn and create code to Design Lexical analyser for given language using C and LEX tools. Design and convert BNF rules into YACC form to generate various parsers.
- 3 students are learn to get grammar with code ,syntax , language translate to Generate machine code from the intermediate code forms, Implement Symbol table

Class –M.Sc. I (Sem. II)

Name of the Course- Lab-5: Information Technology

Paper Code –CS-206

1. Students learn to Design and develop software solutions for contemporary business environments by employing appropriate problem solving strategies, Configure and administer database servers to support contemporary business environments.
2. students Comprehend and resolve common desktop and network issue., analyze common business functions and identify, design, and develop appropriate information technology solutions (in web, desktop, network, and/or database applications
3. Students Learn future technologies through acquired foundational skills and knowledge and employ them in new business environments, Practice communication, problem solving and decision-making skills through the use of appropriate technology and with the understanding of the business environment.

Skill Enhancement Course (SEC)

Skill Based Activity

Class –M.SC. I (Sem. II)

Name of the Course –[SK-02]: PC Assembly and Maintenance

Paper Code – CS-208, [SK-02]

1. Upgrading of existing hardware / software as and when required, integrate the PCs into Local Area Network & re-install operating systems and various shipboard applications.
2. Perform routine maintenance, upgrades, manage data backup & restore operations on server and update anti-virus software and set schedules.

3. Students will be enabled them to identify and rectify the on-board computer hardware, software and network related problems.

Class –M.SC. II (Sem. III)

Name of the Course – Advance Database Administration

Paper Code: -CS-301

1. Students describe Architecture of database systems. Query optimization. Parallel and distributed database systems, new database architectures and query operators.
2. Students learn the Knowledge: The candidate will get knowledge of Query optimization. - Parallel and distributed database systems, new database architectures and query operators.
3. Students learn the Skills: - Be able to develop new methods in databases based on knowledge of existing techniques, Ability to apply acquired knowledge for developing holistic solutions based on database systems/database techniques.

Class – M.SC.II (Sem.III)

Name of the Course - Web Technologies

Paper Code: -CS-302

1. Students are able to develop a dynamic webpage by the use of java script and DHTML; Students will be able to write a well formed / valid XML document.
2. Students will be able to connect a java program to a DBMS and perform insert, update and delete operations on DBMS table, Students will be able to write a server side java application called Servlet to catch form data sent from client, process it and store it on database.
3. Students will be able to write a server side java application called JSP to catch form data sent from client and store it on database.

Class –M.SC.II (Sem. III)

Name of the Course -Data Mining and Data Warehousing

Paper Code: -CS-303

1. Students get knowledge of to provide a brief introduction to general issues of Data Warehouse and Data Mining and to provide students with a clear understanding of the different architectures and mining techniques
2. Students get detail data of DM\DW, and also get information of the role and function of Data Warehouse and Data Mining and to show the stages and process different data mining techniques.

3. Students will be able to learn mining and warehouse techniques through the use of different tools

Class –M.SC. II (Sem.III)

Name of the Course – Research Methodology

Paper Code:- CS-304 C

1. Students learn how Develop the ability to apply the methods while working on a research project work
2. Students get knowledge to describe the appropriate statistical methods required for a particular research design, choose the appropriate research design and develop appropriate research hypothesis for a research project
3. Students give practical work to developan appropriate framework for research studies.

Class M.SC. II (Sem. III)

Name of the Course – Practical Based On Theory Papers –Lab-5: Adv. Database Admin

Paper code – Lab-5: CS-305

1. Students get practical knowledge on designing and creating relational database systems and understand various advanced queries execution such as relational constraints, joins, get operations, aggregate functions, trigger views and embedded SQL.
2. Use of various software to design and build ER Diagrams, UML, flow chart for related database systems.
3. Students will be able to design and implement database applications on their own.

Class–M.SC. II (Sem. III)

Name of the Course - Lab-6: Web Technologies

Paper Code: – Lab-6-CS-306

1. Students are learn this course to Develop web pages using HTML, DHTML and Cascading Styles sheets,and Develop web pages using HTML, DHTML and Cascading Styles sheets, making web page design.
2. Students Develop a dynamic web pages using JavaScript (client side programming).
3. Students learn to Develop an interactive web applications using ASP.NET.and Build and consume web services, Develop a Program using XML. MAPPING BETWEEN COURSE

Class –M.SC. II (Sem. III)

Name of the Course – [Open Elective] Cyber Security

Paper Code: – CS-307 B

1. Students describe various legal responses to cybercrime, Foundations of Information Security Understand the conceptual foundation of information security awareness.
2. Analysis the risk events, treatment plans, assessment, detail evaluation of information classification, roles and responsibilities ,Examining the access controls, monitoring, management and review process .Networks and Databases, Learn basic components of information technology
3. Students learn to Understand the interface of the components, roles and their difference ,Study the back end of the system in database security issues , information on cyber-crimes and crimes in India , different forms of hacking techniques, Study the cyber-attacks on military installations, investigation of cyber frauds and crimes

Skill Enhancement Course (SEC)

Class –M.SC. II (Sem. III)

Name of the Course –SK-03: Seminar Presentation Activity

Paper Code – SK-03

1. Students to establish motivation for any topic of interest and develop a thought process for technical presentation organize a detailed literature survey and build a document with respect to technical publications.
2. Students learn to Analysis and comprehension of proof-of-concept and related data.
3. Students make or create an Effective presentation and improve soft skills and make use of new and recent technology (e.g. Latex) for creating technical reports

Class –M Sc.II (Sem. IV)

Name of the Course – Digital Image Processing

Paper Code –CS-401

1. Students learn to Review the fundamental concepts of a digital image processing system; analyze images in the frequency domain using various transforms.
2. Students evaluate the techniques for image enhancement and image restoration, categorize various compression techniques.
3. Students get knowledge to Interpret Image compression standards and Interpret image segmentation and representation techniques.

Class -M.Sc. II (Sem. IV)

Name of the Course -Linux Administration

Paper Code – CS-402

1. Students learn how describe hierarchical file systems. - Create and delete directories, Understand and apply knowledge of absolute and relative pathnames when specifying files.
2. Students get knowledge to describe the standard file and directory layout; describe the various file types and Create and delete hard and soft (symbolic) links.
3. Students perform practical to Create and modify file permissions, understand how shells are started and view/modify the shell configuration files, Create, modify and delete aliases, Create and execute simple shell scripts

Class -M.Sc. II (Sem. IV)**Name of the Course – Major Project development Activity****Paper Code –CS-403**

1. Students Understand project characteristics and various stages of a project; Understand the conceptual clarity about project organization and feasibility analyses. Analyse the learning and understand techniques for Project planning, scheduling and Execution Control.
2. Students learn how to apply the risk management plan and analyse the role of stakeholders. Understand basics of strategic sourcing process.
3. Students get data about this to create project and its application understand the contract management, Project Procurement, Service level Agreements and productivity ,Understand the How Subcontract Administration and Control are practiced in the industry.

Class -M.Sc. II (Sem. IV)**Name of the Course – Elective Subject Software Testing Tools****Paper Code –CS-404 B**

1. Students learn to Understands the Automation Testing Approach, Write test suites for software, Install Selenium server and demonstrate it using a script in Java/PHP
2. Students understand the concept of software testing objectives, process criteria, strategies and methods. Demonstrate various software testing issues and solutions in software like unit test, integration, regression and system testing.
3. Students demonstrate the techniques and skills on how to use modern software testing tools to support software testing projects and understand important concepts of complexity metrics and object oriented metrics.

Class –M.Sc. II (Sem. IV)

Name of the Course- Lab-7: DIP

Paper Code – CS-405 Lab-7

1. Students learn how get review the fundamental concepts of a digital image processing system.
2. Students analyse images in the frequency domain using various transforms, evaluate the techniques for image enhancement and image restoration, and categorize various compression techniques.
3. Students learn or create Interpret Image compression standards, Interpret image segmentation and representation techniques.

Skill Enhancement Course (SEC)

Skill Based Activity

Class -M.SC. II (Sem. IV)

Name of the Course –Lab-8: Based on Elective Subject

Paper Code – CS-406-Lab-8

1. Upgrading of existing hardware / software as and when required, integrate the PCs into Local Area Network & re-install operating systems and various shipboard applications.
2. Perform routine maintenance, upgrades, manage data backup & restore operations on server and update anti-virus software and set schedules.
3. Students will be enabled them to identify and rectify the on-board computer hardware, software and network related problems.

Class –M.SC. II (Sem. IV)

Name of the Course- [Open Elective] Logical Reasoning and Quantitative Aptitude

Paper Code: – CS-407 –B

1. Students understand the basic concepts of quantitative ability; understand the basic concepts of logical reasoning Skills
2. Students known the knowledge to satisfactory competency in use of reasoning, Solve campus placements aptitude papers covering Quantitative Ability, Logical Reasoning Ability
3. Students crack and Compete in various competitive exams like CAT, CMAT, GATE, GRE, GATE, UPSC, GPSC etc.

Skill Enhancement Course (SEC)

Skill Based Activity

Class -M.SC. II (Sem. IV)

Name of the Course – SK-04: Soft Skills

Paper Code – CS-408

1. Students learn effectively communicate through verbal/oral communication and improve the listening skills, Write precise briefs or reports and technical documents.
2. Students are actively participate in group discussion / meetings / interviews and prepare & deliver presentations, Become more effective individual through goal/target setting, self-motivation and practicing creative thinking.
3. Students give performance in function effectively in multi-disciplinary and heterogeneous teams through the knowledge of team work, Inter-personal relationships, conflict management and leadership quality.

M. SC. ZOOLOGY

Class – M.Sc. First Year (Zoology Sem. I)

Name of the Course – Invertebrates: Structure and Function

Paper No – I

1. Classify animals from different groups based on their features.
2. Explain the similarity and differences in structure and function of organs in different groups of animals.
3. Understanding about importance of integument and skeletal systems.
4. Compare the functional morphology different groups of invertebrates.

**Name of the Course – LABORATORY COURSE WORK BASED ON THEORY
PAPER-I**

Paper: Lab Course - I: Invertebrates: Structure and Function

Paper No – I

1. Classify animals from different groups based on their features.
2. Explain the similarity and differences in the structure and function of organs in different groups of animals.
3. Understanding the importance of integument and skeletal systems.
4. Compare the functional morphology of different groups of invertebrates

Class – M.Sc. First Year Zoology (Sem. I)

Name of the Course –: Biosystematics, Taxonomy and Evolution

Paper no. II

1. Classify animals from different groups based on their features.
2. Describe different taxa and elaborate on their anatomical and morphological features.
3. Identify and describe homologies between different groups of animals.
4. Identify and access taxonomic information in different online databases.
5. Describe evolutionary relationship between different taxa.
6. Explain about evolutionary distance between different taxa.
7. Infer phylogenetic information and prepare phylogenetic trees.

Class – M.Sc. First Year Zoology (Sem. I)

Name of the Course – Lab Course - II: Biosystematics, Taxonomy and Evolution

Paper no. II

1. Classify animals from different groups based on their features.
2. Describe different taxa and elaborate on their anatomical and morphological features.
3. Identify and describe homologies between different groups of animals.
4. Identify and access taxonomic information in different online databases.
5. Describe evolutionary relationship between different taxa.
6. Explain about evolutionary distance between different taxa.
7. Infer phylogenetic information and prepare phylogenetic trees.

Class – M.Sc. First Year Zoology (Sem. I)

Name of the Course – Economic Zoology and Animal Behavior

Paper No – III

1. Identify animal pathogenic diseases in humans and suggest remedial measures.
2. Evaluate and describe the economic impact of animals on human society.
3. Describe different culture methods relevant to aquaculture.
4. Identify and describe economically important fish and other animals.
5. Identify and explain different types of behavior patterns in animals.
6. Describe the importance of different behaviors in animal husbandry.

Class – M.Sc. First Year Zoology (Sem. I)

Name of the Course – Lab Course -: Economic Zoology and Animal Behavior

Paper No – III

1. Identify animal pathogenic diseases in humans and suggest remedial measures.
2. Evaluate and describe the economic impact of animals on human society.
3. Describe different culture methods relevant to aquaculture.
4. Identify and describe economically important fish and other animals.
5. Identify and explain different types of behavior patterns in animals.
6. Describe the importance of different behaviors in animal husbandry.

Class – M.Sc. First Year, Zoology (Sem. I)

Name of the Course – Conservation Biology

Paper No – IV

- 1) Describe different methods of data handling using computers.
- 2) Feed and tabulate raw data using computer.
- 3) Explain and perform data representation using digital methods.

- 4) Access and download relevant information from different online databases of biological information.
- 5) Perform basic operations of gene sequence retrieval and compare them using different software.
- 6) Perform basic operations of protein structure retrieval and comparison using different software.

Class – M.Sc. First Year, Zoology (Sem. I)

Name of the Course – Lab Course – IV (Elective): Conservation Biology.

Paper No – IV (Lab Course)

1. Student will able to collection and preservation of fauna.
2. Student will able to Sampling Techniques (Transect and quadrat method).
3. Identification and use of keys – reference specimen.
4. Wildlife photography and documentation of locally occurring wild species of animals.
5. Remote sensing GIS and their modules for conservation.
6. IUCN Red List Exercise, VORTEX and SIS.

Class – M.Sc. First Year Zoology (Sem. I)

Name of the Course: Seminar

Paper No – V

1. To expose students to updated curricula and to recent advances in the subject and enable the students to face NET, SET and other competitive examinations successfully.
2. To create awareness among students about the latest streams of life sciences including biotechnology, tissue culture, genetic engineering and bioinformatics.
3. To improve the quality of laboratory and field work for which zoological study tours and excursions have been made compulsory so that the students can become familiar with field status of ecosystem and surrounding study.
4. To prepare students to attract and develop interest in applied parasitology, animal physiology, genetics, cell biology, fisheries science, toxicology so that the students can select zoology as their career.

Class – M.Sc. First Year Zoology (Sem. II)

Name of the Course: Animal Ecology, Toxicology and Environmental Pollution

Paper No – VI

1. Describe the role of different gases in greenhouse effect.
2. Identify and suggest remedial measures to deal with different types of pollution.
3. Identify and describe adaptations of animals to different ecosystems.
4. Suggest and develop conservation and management strategies for a particular ecological Problem

Name of the Course: Lab Course - VI Animal Ecology, Toxicology and Environmental Pollution

Paper No – Lab Course - VI

1. Describe the role of different gases in greenhouse effect.
2. Identify and suggest remedial measures to deal with different types of pollution.
3. Identify and describe adaptations of animals to different ecosystems.
4. Suggest and develop conservation and management strategies for a particular ecological Problem

Class – M.Sc. First Year Zoology (Sem. II)

Name of the Course: Outcome of the Course: Gamete Biology and Animal Development

Paper No – VII

1. Understand and describe the different developmental processes.
2. Describe different techniques and methods used in experimental embryology.
3. Elaborate on metamorphosis and regeneration in various and relate these processes to abnormalities in animals.
4. Identify and evaluate application of different ART techniques to different infertility conditions.
5. Describe different types of infertility in humans.

Class – M.Sc. First Year Zoology (Sem. II)

Name of the Course: Lab Course - VII: Gamete Biology and Animal Development

Paper No –: Lab Course - VII

1. Understand and describe the different developmental processes.
2. Describe different techniques and methods used in experimental embryology.
3. Elaborate on metamorphosis and regeneration in various and relate these processes to abnormalities in animals.
4. Identify and evaluate application of different ART techniques to different infertility conditions.

5. Describe different types of infertility in humans.

Class – M.Sc. First Year Zoology (Sem. II)

Name of the Course: VIII: Biochemistry and Immunology

Paper No – VIII

1. Describe the structure and working of different components of vertebrate immune system.
2. Elaborate about the innate and adaptive immune responses in vertebrates.
3. Describe the different immunological disorders found in man.
4. Explain the different techniques in immunology
5. Elaborate about structure and application of antibodies in clinical therapy and biological research.

Class – M.Sc. First Year Zoology (Sem. II)

Name of the Course: Lab Course - VIII: Biochemistry and Immunology

Paper No – Lab Course - VIII

1. Describe the structure and working of different components of vertebrate immune system.
2. Elaborate about the innate and adaptive immune responses in vertebrates.
3. Describe the different immunological disorders found in man.
4. Explain the different techniques in immunology
5. Elaborate about structure and application of antibodies in clinical therapy and biological research.

Class – M.Sc. First Year Zoology (Sem. II)

Name of the Course: Pathobiology & Medical Zoology

Paper No – IX (Elective)

1. Explain about the different pathogens causing disease in man.
2. Describe the different parasites causing disease and disability in man and animals.
3. Ability to elaborate about the life cycle and biology of disease carrying vectors; suggest preventive and control measures for the said diseases.
4. An understanding of the relationship between changes in physiology of host and progress of pathogenesis in human beings and animals.

Class – M.Sc. First Year Zoology (Sem. II)

Name of the Course: Lab Course Pathobiology & Medical Zoology

Paper No – IX (Elective) lab course

1. Explain about the different pathogens causing disease in man.
2. Describe the different parasites causing disease and disability in man and animals.
3. Ability to elaborate about the life cycle and biology of disease carrying vectors; suggest preventive and control measures for the said diseases.
4. An understanding of the relationship between changes in physiology of host and progress of pathogenesis in human beings and animals

Name of the Course: Seminar
Paper No – X

1. To expose students to updated curricula and to recent advances in the subject and enable the students to face NET, SET and other competitive examinations successfully.
2. To create awareness among students about the latest streams of life sciences including biotechnology, tissue culture, genetic engineering and bioinformatics.
3. To improve the quality of laboratory and field work for which zoological study tours and excursions have been made compulsory so that the students can become familiar with field status of ecosystem and surrounding study.
4. To prepare students to attract and develop interest in applied parasitology, animal physiology, genetics, cell biology, fisheries science, toxicology so that the students can select zoology as their career.

Class – M.Sc. Zoology Second Year, Semester III
Name of the Course – VERTEBRATES- STRUCTURE AND FUNCTION
Paper no. XI

1. Able to explain the broad classification of vertebrates based on features.
2. Describe relation between organ systems in different vertebrate groups.
3. Explain the significance of integument and skeletal systems of vertebrates.
4. Compare the structural and functional morphology of vertebrates.

Class – M.Sc. Zoology Second Year, Semester III
Name of the Course – Laboratory Course- - VERTEBRATES: STRUCTURE AND FUNCTION
Paper no. XI

1. Able to explain the broad classification of vertebrates based on features.
2. Describe relation between organ systems in different vertebrate groups.

3. Explain the significance of integument and skeletal systems of vertebrates.
4. Compare the structural and functional morphology of vertebrates.

Class – M.Sc. Zoology Second Year, Semester III
Name of the Course – MOLECULAR CELL BIOLOGY
Paper no. XII

1. Elaborate about contemporary developments in the field of molecular biology.
2. Explain the differences between prokaryotes and eukaryotes.
3. Describe the processes of cell communication and carcinogenesis.
4. Learn about latest in gene and genome structure, functions and organization.

Class – M.Sc. Zoology Second Year, Semester III
Name of the Course – Laboratory Course: XII- MOLECULAR CELL BIOLOGY
Paper no. Laboratory Course: XII

1. Elaborate about contemporary developments in the field of molecular biology.
2. Explain the differences between prokaryotes and eukaryotes.
3. Describe the processes of cell communication and carcinogenesis.
4. Learn about latest in gene and genome structure, functions and organization.

Class – M.Sc. Zoology Second Year, Semester III
Name of the Course – Fish Morphology, Anatomy and Physiology- I
Paper no. : XIII (B)

1. Explain the inter-relation between different groups of fish.
2. Be able to identify and broadly classify fish.
3. Appreciate the relation between environment and feeding and digestion in fish.
4. Describe the respiratory mechanisms in different groups of fish.
5. Explain the significance of biological rhythms in fish growth and reproduction

Class – M.Sc. Zoology Second Year, Semester III
Name of the Course: Fish Morphology, Anatomy and Physiology-
Paper no. : Laboratory Course- XIII-B

1. Explain the inter-relation between different groups of fish.
2. Be able to identify and broadly classify fish.
3. Appreciate the relation between environment and feeding and digestion in fish.
4. Describe the respiratory mechanisms in different groups of fish.
5. Explain the significance of biological rhythms in fish growth and reproduction

Class – M.Sc. Zoology Second Year, Semester III

Name of the Course – Fish Morphology, Anatomy and Physiology- II

Paper no: XIV (B)

1. Ability to describe the structure and functions of the nervous & reproductive systems.
2. Elaborate the migration patterns, growth & age determination methods of fish species.
3. Describe the specialized organs like swim bladder, electric & acoustic organs in fish.
4. Explain the working of endocrine and venom glands in fish.

Class – M.Sc. Zoology Second Year, Semester III

Name of the Course Fishery Science- II

Paper no.: Laboratory Course XIV-B

1. Ability to describe the structure and functions of the nervous & reproductive systems.
2. Elaborate the migration patterns, growth & age determination methods of fish species.
3. Describe the specialized organs like swim bladder, electric & acoustic organs in fish.
4. Explain the working of endocrine and venom glands in fish.

Class – M.Sc. Zoology Second Year, Semester III

Name of the Course: Seminar

Paper no. : XV

1. To expose students to updated curricula and to recent advances in the subject and enable the students to face NET, SET and other competitive examinations successfully.
2. To create awareness among students about the latest streams of life sciences including biotechnology, tissue culture, genetic engineering and bioinformatics.
3. To improve the quality of laboratory and field work for which zoological study tours and excursions have been made compulsory so that the students can become familiar with field status of ecosystem and surrounding study.

4. To prepare students to attract and develop interest in applied parasitology, animal physiology, genetics, cell biology, fisheries science, toxicology so that the students can select zoology as their career.

Class – M.Sc. Zoology Second Year, Semester IV

Name of the Course – GENETICS AND GENETIC ENGINEERING

Paper no. XVI

1. Explain the principles of Mendelian inheritance.
2. Describe gene and chromosomal inheritance and their disorders.
3. Elaborate about different tools and techniques used in recombinant DNA technology.
4. Discern the different tools used in cloning and gene transfer technology

Class – M.Sc. Zoology Second Year, Semester IV

Name of the Course – Laboratory Course XVI- GENETICS AND GENETIC ENGINEERING

Paper no. XVI

1. Explain the principles of Mendelian inheritance.
2. Describe gene and chromosomal inheritance and their disorders.
3. Elaborate about different tools and techniques used in recombinant DNA technology.
4. Discern the different tools used in cloning and gene transfer technology.

Class – M.Sc. Zoology Second Year, Semester IV

Name of the Course – MAMMALIAN ENDOCRINOLOGY

Paper no. XVII

1. Appreciate the nature, functions and classification of hormones.
2. Describe general structure and functions of endocrine glands in mammals.
3. Trace the relation between pituitary and other endocrine glands.
4. Elaborate about endocrine role of adrenal, pancreatic and pineal tissue in humans.
5. Explain about functions of gastro-intestinal and reproductive hormones in humans.
6. Elaborate about the different endocrine disorders in humans.

Class – M.Sc. Zoology Second Year, Semester IV

Name of the Course – Laboratory Course MAMMALIAN ENDOCRINOLOGY

Paper no. XVII

1. Appreciate the nature, functions and classification of hormones.

2. Describe general structure and functions of endocrine glands in mammals.
3. Trace the relation between pituitary and other endocrine glands.
4. Elaborate about endocrine role of adrenal, pancreatic and pineal tissue in humans.
5. Explain about functions of gastro-intestinal and reproductive hormones in humans.
6. Elaborate about the different endocrine disorders in humans.

Class – M.Sc. Zoology Second Year, Semester IV
Name of the Course: Fisheries and Fish Culture- I
Paper no. XVIII (B)

1. Knowledge of capture and culture fishery practices of India and methods adopted.
2. Suggest design and management procedures for a fish farm.
3. Carry out artificial fish breeding and weed control in a fish farm.
4. Identify various fish diseases and suggest treatments.
5. Elaborate about different fish preservation methods.
6. Evaluate suitability of different fish for making by-products.

Class – M.Sc. Zoology Second Year, Semester IV
Name of the Course: Fisheries and Fish Culture- I
Paper no. Laboratory Course XVIII-B

1. Knowledge of capture and culture fishery practices of India and methods adopted.
2. Suggest design and management procedures for a fish farm.
3. Carry out artificial fish breeding and weed control in a fish farm.
4. Identify various fish diseases and suggest treatments.
5. Elaborate about different fish preservation methods.
6. Evaluate suitability of different fish for making by-products.

Class – M.Sc. Zoology Second Year, Semester IV
Name of the Course: Fisheries and Fish Culture- II
Paper no. Laboratory Course XIX-B

1. Describe the fishery resources of India.
2. Knowledge about culturable organisms and different culture methods.
3. Identify and assess the anthropogenic threats to fishery industry.
4. Knowledge of marine capture and culture fishery of India and legislative framework to regulate it.

Class – M.Sc. Zoology Second Year, Semester IV

Name of the Course: Fisheries and Fish Culture- I
Paper no. Laboratory Course XIX-B

1. Describe the fishery resources of India.
2. Knowledge about culturable organisms and different culture methods.
3. Identify and assess the anthropogenic threats to fishery industry.
4. Knowledge of marine capture and culture fishery of India and legislative framework to regulate it.

Class – M.Sc. Zoology Second Year, Semester IV

Name of the Course: Seminar

Paper no. : XX

1. To expose students to updated curricula and to recent advances in the subject and enable the students to face NET, SET and other competitive examinations successfully.
2. To create awareness among students about the latest streams of life sciences including biotechnology, tissue culture, genetic engineering and bioinformatics.
3. To improve the quality of laboratory and field work for which zoological study tours and excursions have been made compulsory so that the students can become familiar with field status of ecosystem and surrounding study.
4. To prepare students to attract and develop interest in applied parasitology, animal physiology, genetics, cell biology, fisheries science, toxicology so that the students can select zoology as their career.

M. SC. BOTANY

Class – M. Sc. I (Sem. I)

Name of the Course – Biology and Diversity of Microbes

Paper No – I

- 1) Understand the morphology, structure and importance of the various organisms.
- 2) Differentiate between various groups of Fungi, Bacteria, Viruses, and Lichens & Mycorrhiza.
- 3) Learn the life cycles of individuals belonging to Fungi, Bacteria, Viruses, Lichens & Mycorrhiza.

Class – M. Sc. I (Sem. I)

Name of the Course – Biology and Diversity of Cryptogams

Paper No – II

- 1) Understand the morphology, structure and importance of the various organisms
- 2) Differentiate between various groups of Algae, Bryophyta and Pteridophyta.
- 3) Learn the life cycles of individuals belonging to Algae, Bryophyta and Pteridophyta.

Class – M. Sc. I (Sem. I)

Name of the Course – Taxonomy of Angiosperms and Gymnosperms

Paper No – III

- 1) Understand the morphology, structure and importance of the various organisms.
- 2) Differentiate between various groups of Gymnosperms, Angiosperms and fossil plants.
- 3) Learn the characters of taxa belonging to Gymnosperms, Angiosperms and fossil plants.

Class – M. Sc. I (Sem. I)

Name of the Course – Plant Anatomy and Embryology of Angiosperms

Paper No – IV

- 1) Understand the anatomy, embryology and palynology of angiosperms.
- 2) Learn the applied aspects of palynology, embryology and anatomy.

Class – M. Sc. I (Sem. I)

Name of the Course – Seminar/ MOOCs (SWAYAM/NPTEL)

Paper No – V

- 1) Learning through a digital medium so that student can learn collectively at the single point.
- 2) Interaction of students with expert staff and students belongs to different universities.

Class – M. Sc. I (Sem. II)

Name of the Course – Bioinstrumentation and Methods in Biology

Paper No – VI

- 1) Understand the actual working and applications of different laboratory equipments.
- 2) Learn the various techniques used in life sciences and their utility.

Class – M. Sc. I (Sem. II)

Name of the Course – Cell Biology, Genetics and Plant Breeding

Paper No – VII

- 1) Understand the structural organization and functions of cell and cell organelles.
- 2) Able to understand Gene structure, linkage groups, Genetic inheritance and extra chromosomal inheritance in plants.
- 3) Understand basic techniques of hybridization.

Class – M. Sc. I (Sem. II)

Name of the Course – Plant Resource Utilization and Biodiversity Conservation

Paper No – VIII

- 1) Study of origin, cultivation and economic importance of various plant wealth.
- 2) Learn the importance of biodiversity and motivation of students for its conservation

Class – M. Sc. I (Sem. II)

Name of the Course – Plant Ecology, Environmental Biology and Phytogeography

Paper No –IX

- 1) Able to understand the ecological principles, structure and functions of ecosystem.
- 2) Learn about the causes of environmental pollution and its control measures.
- 3) Learn about different phytogeographic regions and their vegetation pattern.

Class – M. Sc. I (Sem. II)

Name of the Course – Seminar/ MOOCs (SWAYAM/NPTEL)

Paper No – X

- 1) Learning through a digital medium so that student can learn collectively at the single point.
- 2) Interaction of students with expert staff and students belongs to different universities.

**Name of the Course – Laboratory Course Work-I
(Based on theory paper-I & II)**

- 1) Practical study of the morphology, structure and importance of the various organisms belongs to Fungi, Bacteria, Viruses, and Lichens & Mycorrhiza.
- 2) Learn the life cycles of individuals belonging to Fungi, Bacteria, Viruses, Lichens & Mycorrhiza.
- 3) Practical study of the morphology, structure and importance of the various organisms from various groups of Algae, Bryophyta and Pteridophyta.
- 4) Learn the life cycles of individuals belonging to Algae, Bryophyta and Pteridophyta.

**Name of the Course – Laboratory Course Work-II
(Based on theory paper-III & IV)**

- 1) Practical study of the morphology, structure and importance of the various organisms from various groups of Gymnosperms, Angiosperms and fossil plants.
- 2) Learn the characters of taxa belonging to Gymnosperms, Angiosperms and fossil plants.
- 3) Practical study of the anatomy, embryology and palynology of angiosperms.
- 4) Learn the applied aspects of palynology, embryology and anatomy.

**Name of the Course – Laboratory Course Work-III
(Based on theory paper-VI & VII)**

- 1) Practical study and applications of different laboratory equipments.
- 2) Learn the various techniques used in life sciences and their utility.
- 3) Practical study of cell and cell organelles.
- 4) Practical study of Gene structure, linkage groups, Genetic inheritance and extra chromosomal inheritance in plants.
- 5) Practical study of basic techniques of hybridization.

**Name of the Course – Laboratory Course Work-IV
(Based on theory paper-VIII & IX)**

- 1) Practical study of origin, cultivation and economic importance of various plant wealth.
- 2) Practical study of importance of biodiversity and its conservation
- 3) Practical study of ecological principles, structure and functions of ecosystem.

M. SC. CHEMISTRY

M. Sc. First Year, Semester I Inorganic Chemistry - I Paper I

1. Learn various approaches in analyzing structures of simple molecules.
2. Understand the proposed pathways for reactions taking place in coordination complexes such as substitution reactions, redox reactions etc. and the various factors affecting to rates of these reactions.
3. Learn about mechanisms proposed for reactions taking place in coordination complexes, and will be able to understand to explain the product formation based on these mechanisms.
4. Understand how to construct molecular orbital diagrams for simple molecules as well as coordination complexes.
5. Draw molecular orbital diagrams for sigma and pi bond formation in coordination complexes and will be able to understand and explain the difference between respective molecular orbital diagrams.

M. Sc. First Year, Semester I Organic Chemistry - I Paper: II

1. Understand the various types of Reaction Mechanism.
2. Adopt the concept of Bonding in Organic Molecules.
3. Learn the concept of Stereochemistry and to identify the Stereo chemical reactions.
4. Explain the various problems of aromaticity, homoaromaticity and antiaromaticity.
5. Familiarize the various types of Substitution reactions and their mechanism
6. Gain knowledge of free radical reactions.
7. Justifies the various effect of substrate

M. Sc. First Year, Semester I Physical Chemistry – I Paper: III

1. Explain basic concepts, laws and postulates of quantum mechanics
2. Describe different wave functions and operators
3. The Schrodinger wave equation for the calculation of Energies of rigid rotor and harmonic oscillator and solve it for hydrogen atom

4. Explain the concept of angular momentum
5. Describe the electronic structure of atoms
6. Good overview of laws of thermodynamics, partial molar properties for different systems and concept and examples of non-ideal systems
7. Discuss concept distribution with examples, they will be able to explain most probable distribution and thermodynamic probability
8. Concept of partition functions and its significance
9. Can relate and explain the entropy production in different system and understand Onsager's relations
10. Solve problems related to quantum chemistry, will have large horizon of critical thinking and analytical reasoning

M. Sc. First Year, Semester-I
Physical Method in Chemistry
Paper: IV

1. Understand how to recognize symmetry elements in a molecule.
2. Assign the point group to a molecule.
3. Deal with degenerate and non-degenerate representations.

M. Sc. First Year, Semester-II
Inorganic Chemistry
Paper: VI

1. Learn basic terms regarding electronic spectra of coordination complexes, interpretation of electronic spectra and various important parameters necessary for it, drawing of Orgel and T-S diagrams used for electronic spectra, prediction of possible electronic transitions present in electronic spectra of coordination complexes etc.
2. He/she will understand magnetic nature of complexes, measurement of magnetic moment in coordination complexes, prediction of magnetic nature of complexes using spin only formula.
3. He/she will learn the terms such as diamagnetic and paramagnetic nature of coordination complexes, difference between them, anomalous magnetic moments, spin cross over etc.
4. He/she will understand the chemistry of carbonyl and nitrosyl molecules, their application as ligand molecules in complex formation, structure and bonding

present in various carbonyl and nitrosyls complexes, applications etc.

5. He/she will learn chemistry of boranes, carboranes and metal clusters, the concept of 3C-2e bond used to explain structural aspects in boranes and carboranes, polyhedral skeletal electron pair theory and its applications in explaining structures of metal clusters etc.

M. Sc. First Year Semester-II

Organic Chemistry

Paper: VII

1. Gain the knowledge of addition reaction between a hetero atom and double bonded carbon compounds.
2. Learn familiar name Reaction
3. Obtain an outline about mechanism of Aromatic Substitution reactions
4. Know synthetically the process relevant Organic –Chemical reactions and be able to discuss the mechanism of these reactions.
5. Understand the skill of solving problems of pericyclic reactions
6. Get the clear picture of about pericyclic reactions

M. Sc. First Year, Semester-I

Physical Chemistry

Paper: VIII

1. Understand the basic concepts and properties of surfactants and macromolecules
2. State and apply different laws, principles, theories related to the electrochemistry of the solutions.
3. Discuss and apply the information about corrosion, its monitoring and presentation.
4. Distinguish different theories of reaction rates.
5. Understand the kinetics of complex reactions, catalysis etc.
6. Perform the calculations and solve the numerical of electrochemistry and chemical kinetics.
7. Develop skill in problems solving, critical thinking and analytical reasoning.

M. Sc. First Year, Semester-I

Principles of Spectroscopy

Paper: IX

1. Explain the basic principles of rotational, vibrational, electronic and Raman spectroscopy.

2. Identify and explain factors that influence the strength and frequency of peaks in the Microwave, IR spectra.
3. Describe the selection rule for rotational, Vibrational and electronic spectroscopy.
4. Determine the vibrations for a molecule and identify whether they are active in infrared and/or Raman spectroscopy.
5. Explain the difference between Stokes and anti-Stokes lines in a Raman spectrum and justify the difference in intensity between Stokes and anti-Stokes lines.
6. Draw the Stokes and anti-Stokes lines in a Raman spectrum of a compound when given the energies of the different transitions.
7. Understand the electronic spectra of atomic and diatomic molecular systems.
8. Justify the absorption lines in atomic electronic spectra and the broad bands in molecular electronic spectra.
9. Able to interpret the molecular electronic spectra and deduce the electronic structure information in ground and excited states of diatomic molecules.
10. Importance of the Nuclear Quadrupole Resonance Spectroscopy in the characterizing organic and inorganic compounds.
11. Know how the electric fields gradient in molecules influences NQR, and ESR spectra.

**M. Sc. First Year,
Laboratory Course – I (Inorganic Chemistry)
Paper: XI**

1. Learn synthesis methods for the preparation of various coordination complexes and will understand the basic principles involved in operational procedures while synthesizing the complexes to a deeper level.
2. To characterize a synthesized complex using various characterization techniques such as melting point determination, solubility behavior in various solvents, molar conductance, magnetic susceptibility measurements, IR and electronic spectra etc.
3. While following all these methods he/she will be able to understand operation procedures, care that should be taken while using these techniques and the practical utility of these techniques.

4. Understand the basic principles lying behind inorganic analysis such as precipitation, solubility product, buffer solution, applications of buffer solution in maintaining pH, common ion effect etc. and this much information will be helpful while analyzing any inorganic compound in future.

M. Sc. I Semester

Laboratory Course II (Organic Chemistry)

Paper XII

1. Learn the pilot separation of the binary mixture
2. Familiarize the systematic procedure of organic mixture analysis
3. The preparation involving nitration, bromination, Sandmeyer reaction, and Aldolcondensation
4. Learn the test involving identification of special elements
5. Learn the confirmatory test for various functional groups
6. Understand the technique involving drying and crystallization by various methods
7. Expertise the various techniques of preparation and analysis of organic substances
8. Learn the estimation of various organic compounds. Understand micro scale technique

M. Sc. I Semester

Laboratory Course III (Physical Chemistry)

Paper XIII

1. Apply their knowledge for setting various experiments based on the instrumentations studied
2. Perform different qualitative and quantitative analysis.

M. Sc. I Semester

Laboratory Course – IV (Analytical Chemistry)

Paper XIV

1. Understand the basic principles and theory of different instruments used during the conduction of the experiments
2. Perform the different experiments on conductometer, pH meter, potentiometer, colorimeter, polarimeter, flame photometry
3. Apply their knowledge for setting various experiments based on the instrumentations studied
4. Perform different qualitative and quantitative analysis.

B. COM.

B.Com.F.Y. (Sem. I / II)

Course Name - Financial Accounting

1. Recognize and understand ethical issues related to the accounting profession.
2. Prepare financial statements in accordance with Generally Accepted Accounting Principles.
3. Apply appropriate judgment derived from knowledge of accounting theory, to financial analysis and decision making.
4. It can improve the skill of Recording and Maintaining the financial records and presenting the accounting and financial fact

B.Com.F.Y. (Sem. I / II)

Course Name - Business Statistics and Mathematics

1. It is to provide fundamental knowledge of statistical techniques useful for business analysis.
2. Students will formulate complete, concise, and correct mathematical proofs.
3. Students will frame problems using multiple mathematical and statistical representations of relevant structures and relationships and solve using standard techniques.
4. Students will create quantitative models to solve real world problems in appropriate contexts.
5. Students will effectively use professional level technology tools to support the study of mathematics and statistics.
6. Students will clearly communicate quantitative ideas both orally and in writing to a range of audiences.

B.Com.F.Y. (Sem. I / II)

Course Name - Business Economics

1. It is to acquaint the students with the business economic principles and theories as are applicable in business.
2. Apply the concept of opportunity cost.
3. Employ marginal analysis for decision making.

4. Analyze operations of markets under varying competitive conditions.
5. Analyze causes and consequences of unemployment, inflation and economic growth.

B.Com.F.Y. (Sem. I / II)

Course Name - Business Communication

1. Upon completion of the course, students are able to demonstrate a good understanding of effective business writing and effective business communication.
2. Develop the abilities of delivering effective presentations.
3. Understand effective interpersonal communications skills that maximize team effectiveness.
4. Acquires the skills of report writing and Modern forms of communication, Fax, Email, video conference, internet-websites and their uses in business.

B.Com.F.Y. (Sem. I / II)

Course Name - Computer for Business

1. The course is designed to develop awareness about computer.
2. This course caters to know the recent advances in the Information technology field.
3. This course helps the students to develop knowledge about internet, email and social networking

B.Com.F.Y. (Sem. I / II)

Course Name – Tally

1. The course is designed to give an opportunity to the graduate and undergraduate students to get acquainted with the tally accounting software.
2. This course caters to the vocational needs of the students and is concurrent with the syllabus covered by the universities.
3. Giving hands on with the industry software so that undergraduate students will not face the problem at the time work in industry.

B.Com.S.Y. (Sem. III / IV)

Course Name - Corporate Accounting

1. Students will capable of understanding the features and debentures.
2. Giving the understanding about Redemption of shares and debentures and its types.
3. A clear idea about how to publish the company's final accounts.

4. It helps to impart the students in expertise in the preparation of corporate accounts.
5. It help students to gain the conceptual knowledge of the corporate accounting.
6. It helps to learn the techniques of preparing the financial statements.

B.Com.S.Y. (Sem. III / IV)

Course Name - Cost Accounting

1. Explains break-even sales price, break-even sales volume, the total contribution margin, the unit contribution margin, margin of safety, security ratio, profit margin concepts
2. Explains fixed, variable, semi-fixed and semi-variable cost concepts
3. It helps to learn how the cost accounting is different from financial accounting.
4. Giving understanding about how to use accounting methods and cost calculations.
5. Helps to define the cost and their impact on value creation in the company.
6. Understanding about how to make differentiate Cost Management systems.

B.Com.S.Y. (Sem. III / IV)

Course Name - Principles of Business Management

1. Understand the functions of management and the roles of managers.
2. Explain how managers align the planning process with company mission, vision, and values.
3. Explain the process and techniques of individual and group decision-making.
4. Explain group and team dynamics within organizations.
5. Discuss organizational culture and the benefits of diversity.
6. Recognize the importance of employee motivation and how to promote it.

B.Com.S.Y. (Sem. III / IV)

Course Name - Mercantile and Business Law

1. Demonstrate an understanding of the Legal Environment of Business.
2. Apply basic legal knowledge to business transactions.
3. Communicate effectively using standard business and legal terminology.
4. Helps in acquire knowledge and develop understanding of the necessary framework of mercantile law with reference to various provisions and acts.
5. Making acquainted to the students regarding the provisions of Indian contract act.

6. Making acquainted to the students regarding the provisions of various mercantile and business laws.

B.Com.S.Y. (Sem. III / IV)

Course Name - Income Tax

1. Introduction to basic concepts of Income Tax.
2. In order to familiarize the different know-how and heads of income with its components.
3. It helps to build an idea about income from house property as a concept.
4. It gives more idea about the income from business or profession.

B.Com.S.Y. (Sem. III / IV)

Course Name - Basic Accounting Skills (Skill Enhancement Course)

1. Providing the candidates with sound Knowledge of the basic accounting their applications in practices.
2. Developing the candidates with skills of the basic accounting their applications in practices.
3. The students will be able to handle basic accounting practices skillfully.

B.Com.S.Y. (Sem. III / IV)

Course Name - Retail Business Accounting (Skill Enhancement Course)

1. The students will be able to handle basic accounting practices skillfully.
2. The students will be able to handle Retail Business Accounting practices skillfully.

B.Com.S.Y. (Sem. III / IV)

Course Name - Banking & Insurance

1. Basic institutional and practical knowledge supported by text books including upto-date information in the field of Banking and Insurance.
2. Knowledge of banking, insurance and capital market law besides fundamental legal knowledge.
3. Carry out financial analysis of banks and insurance companies.
4. Keep up with developments in financial markets.
5. Students can analyze risks and financial problems.

6. Students can gain the ability to use basic theoretical and practical knowledge gained in the field in an advanced education level of the same field or at the same level of another field.

B.Com.T.Y. (Sem. V / VI)

Course Name - Advanced Accounting

1. Student will equip with the ability to analysis interpret and use accounting information in managerial decision making and auditing.
2. Student will acquire knowledge of advance level of accounting for professional

B.Com.T.Y. (Sem. V / VI)

Course Name - Management Accounting

1. Explains the relationship between cost accounting-financial accounting and managerial accounting.
2. Analyzes the relationship between the cost-volume and profit
3. Explains the importance of management accounting for businesses

B.Com.T.Y. (Sem. V / VI)

Course Name – Auditing

1. It will make competent to find out the fraud and errors in the accounting
2. It includes mechanisms for identifying common errors or mistakes as well as rare and more serious adverse outcomes.
3. Monitoring complaints and critical incidents.
4. Significant importance to ensure effective control and/or achieve value for money.

B.Com.T.Y. (Sem. V / VI)

Course Name - Human Resource Management (HRM)

1. Aims to enable the students in Human Resources Management.
2. Introduce the students about placement and training.
3. Facilitates the knowledge about performance appraisal and different methods.
4. Provides an idea about different compensation policies.

B.Com.T.Y. (Sem. V / VI)

Course Name - Marketing Management (MM)

1. Develops an idea about marketing and its functions.
2. Enhances the students on consumer behavior.
3. Familiarize the students about product and its classifications.
4. It Make them understand pricing policies.
5. Introduction to the concept of sales forecast.

B.Com.T.Y. (Sem. V / VI)

Course Name - Indian Economy

1. Measure living standards, inflation, and unemployment for use as economic indicators.
2. Analyze the determinants of the relative strengths of fiscal and monetary policy for affecting gross domestic product.

B.Com.T.Y. (Sem. V / VI)

Course Name - Accounting and Tally (Skill Enhancement Courses)

1. Developing the knowledge of student in accounting treatment with the help of computer software technology
2. Enhance the skill regarding the recording transaction in tally

B.Com.T.Y. (Sem. V / VI)

Course Name - Accounting & Auditing Practices (Skill Enhancement Courses)

1. Developing the skill of Accounting and Auditing Practices among the students.
2. Enhance the skill of the auditing among the students

B.Com.T.Y. (Sem. V / VI)

Course Name - B. Com Project Report

1. Understand the basics about project management and its various types.
2. Enable them to develop project formulation and preparation of project report.
3. Equip the students for project appraisal and corrective measures.
4. Understand more about project finance and its source.
5. Make them aware about project evaluation methods.

B.Com.T.Y. (Sem. V / VI)

Course Name - Environmental Studies

1. General understanding of the breadth and interdisciplinary nature of environmental issues.
2. Prepares students for careers as leaders in understanding and addressing complex environmental issues from a problem-oriented, interdisciplinary perspective.

M. COM.

M.com I Year (I Semester)

Paper I - Managerial Economics

1. To familiarize with the students the importance of economic approaches in managerial decision making.
2. To understand the applications of economic theories in business decisions.
3. To provide basic inputs required for analysis of business and economic situations.

M.com I Year (I Semester)

Paper II - Statistical Analysis for Business

1. The objective of this course is to make students earn the associations of statistical tools and techniques for decision making.
2. It is to provide fundamental knowledge of statistical techniques useful for business analysis.
3. Students will create quantitative models to solve real world problems in appropriate contexts.

M.com I Year (I Semester)

Paper III - Business Management & Organizational Behavior

1. The course aims at developing among students an understanding of human behaviors for dealing effectively with behavioral issues at workplace.
2. To understand the conceptual framework of Organizational Behavior.
3. To explain how managers align the planning process with company mission, vision, and values.

M.com I Year (I Semester)

Paper IV. International Business Environment

1. The purpose of this paper is to enable the students learn nature, scope and structure of International Business, and understand the influence of various environmental factors on international business Operations.

2. This paper is designed for students pursuing career in global business management in a variety of settings including for profit and non-profit organization, industry and government.
3. This subject focuses on the overview of the unique problems faced by firms engaging in international activities.

M.com I Year (II Semester)

Paper - V - Paper – Accounting For Managerial Decision

1. To provide the skill of i) Management techniques ii) Decision making iii) Presenting the accounting and sales production fact iv) Minimize the cost.
2. Student can understand the i) Management Knowledge ii) Application of management accounting and skill of decision making in business.

M.com I Year (II Semester)

Paper – VI - Operations Research

1. To acquaint students with the Operation research tools and techniques and their application in management process.
2. Understand the mathematical tools that are needed to solve optimization problems.
3. Solve the multi- level decision problems using dynamic programming method.

M.com I Year (II Semester)

Paper – VII- Legal Aspects of Business

1. To provide the students with practical legal knowledge of general business law issues and topics to help become more informed, sensitive and effective business leaders.
2. To gain knowledge of the branches of law which relate to business transaction, certain corporate bodies and related matter.
3. To understand the application of these laws to practical commercial situations.

M.com I Year (II Semester)

Paper – VIII.1 - Corporate Tax Planning and Management

1. To make the student conversant with the concept of Corporate Tax Planning and Management and its application in corporate world.

2. To acquaint the students with basic principles underlying the provisions of direct and indirect tax laws and to develop a broad understanding of the tax laws and accepted tax practices.

M.com II Year (III Semester)

Paper – IX - Financial Management

1. The student will be able to handle finance Function.
2. The students will become successful finance Manager.
3. The students will become successful business person by handling finance function.

M.com II Year (III Semester)

Paper – X - Advance financial Accounting

1. The students will become skillful account & finance manager.
2. The students will become skillful NET/SET qualified account and finance teacher.

M.com II Year (III Semester)

Paper – XI - Research Methodology

1. The Students will become scientific Researches.
2. The Student will be able to carry research and survey in area of marketing, HR, production, account and finance.

M.com II Year (III Semester)

Paper – XII - Marketing Management

1. The students will become successful marketer.
2. The students will be able to carry research and survey in area of marketing advertising & Sales
3. The students will become successful marketing manager.

M.com II Year (IV Semester)

Paper – XIII - Advance financial Management

1. It will be helpful to the students to enable and equip the students with the advanced functions and tools of financial management.
2. The students will become successful financial manager.

M.com II Year (IV Semester)
Paper – XIV - Accounting and finance

1. It is helpful to make the students to understand the recent trends in accounting and finance.
2. It is helpful to understand the requirements of a career in accounting and finance.
3. It is helpful to make the students aware of working of money and capital markets and their regulatory authorities.

M.com II Year (IV Semester)
Paper – XV - Research project work

1. The students will become scientific researcher
2. The students will be able to carry research and survey in area of marketing etc.

M.com II Year (IV Semester)
Paper – XVI - Marketing Management– II

1. It is helpful to understand the opportunities and challenges in rural marketing.
2. It is helpful to understand the differences between rural and Agricultural marketing
3. It is helpful to evaluate different marketing strategies used in rural distribution and promotion.