COURSE OUTCOMES (COs): UG COURSES

Bachelor of Arts (B. A.)

Students pursuing B. A. are expected to have following outcome from each of the Courses taught:

- **F. Y. B. A.**

Compulsory English

- Make students aware of the different communicative skills, and to develop among them an ability to effectively communicate in English, both in written and spoken modes.
- Develop linguistic and pragmatic competence among the students and to prepare them to develop competence for self-learning.
- Encourage and enable the students to read the various types of texts on their own and discuss them among peers.

Marathi General Paper-1 (G-1)

- Introduce students to Marathi literature, language and culture.
- Create interest in Marathi literature.
- Develop the literary taste of students.
- Cultivate ability to appreciate literature.
- Connect literature to real life experience.
- Understand various branches and movements of Marathi literature.
- Develop linguistic skills to meet the requirements in the age of globalization.

Hindi General Paper-1 (G-1)

- Introduce students to basic writing in Hindi.
- Cultivate interest in Hindi literature among students.
- Introduce various types of literature to students.

Optional English (G-1)

- Acquaint the students with the Minor Forms of literature.
- Initiate students into the first-hand experience of reading literary texts.
- Encourage them to read various texts independently and discuss them among peers.
- Impart the skills and develop the ability among them to use English language.

History General Paper-1 (G-1)

- Introduce innovative study techniques in the study of History of Maratha to make it value based, conceptual and thought provocative.
- Introduce International elements in the study of Marathas to facilitate comparative analysis of this history.
- Highlight the importance of past in exploration of present context.
- Understand the socio–economic, cultural and political background of 17th century Maharashtra.
- Increase the spirit of healthy Nationalism & Secularism among the student.

Geography General Paper-1(G-1)

- Introduce the basic concepts in Physical Geography.
- Acquaint with the utility and application of Physical Geography in different areas and environment
- Make the students aware of the need of protection and conservation of different landforms.

Economics General Paper-1(G-1)

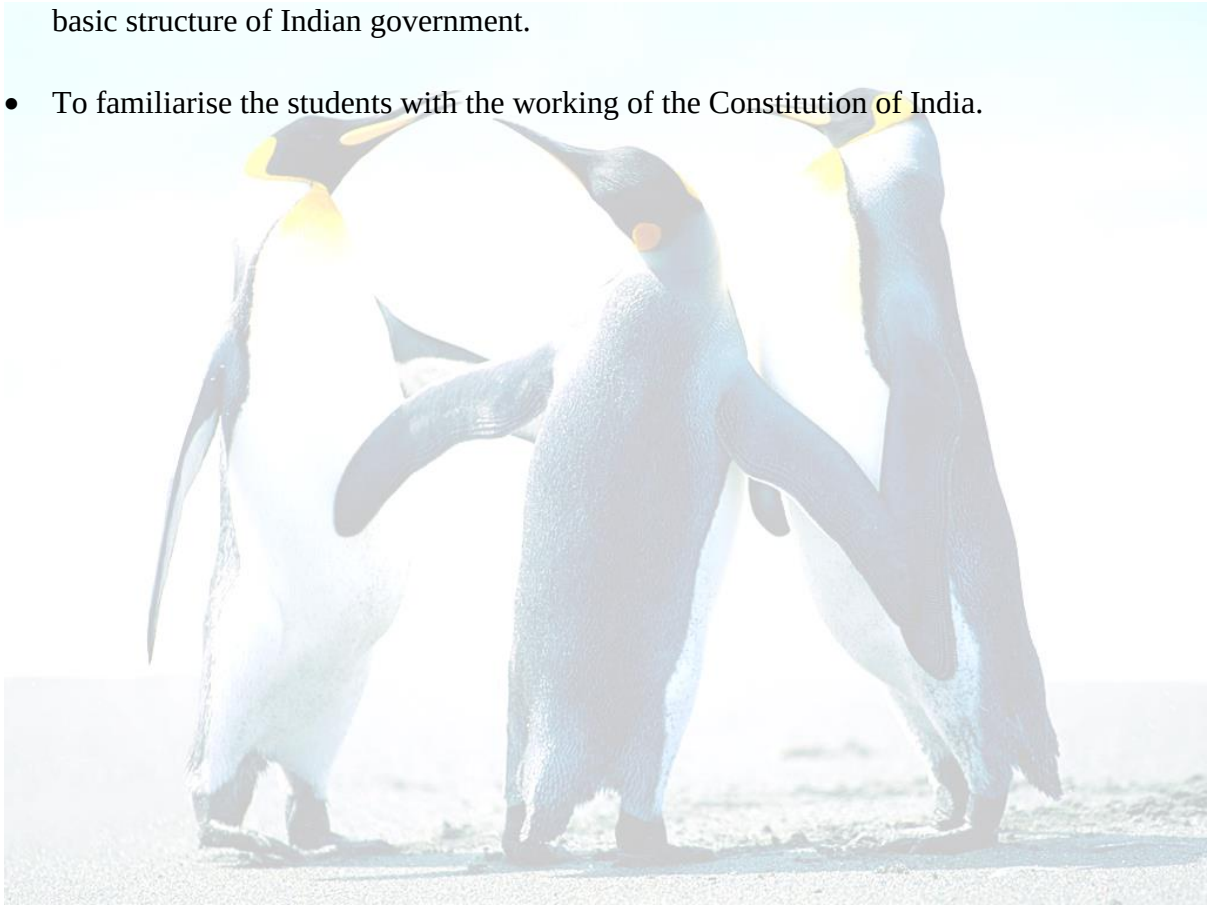
- Students will be initiated into various economic concepts.
- Understand the techniques of mathematical and statistical analysis.
- Develop practical skill and to the different skill and abilities of students.
- Do practical work in different modules on regional economic aspects.
- Understand and analyze economic problems.

Psychology General Paper-1(G-1)

- Provide solid foundation for the basic principles of psychology
- Familiarize students with the historical trends in psychology, major concepts, theoretical perspectives, and empirical findings.
- Provide an overview of the applications of psychology.

Political Science General Paper-1(G1)

- To acquaint the learners with the important features of the Indian Constitution and to the basic structure of Indian government.
- To familiarise the students with the working of the Constitution of India.



S. Y. B. A.

Compulsory English

- Develop competence among the students for self-learning.
- Familiarize students with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English.
- Develop students' interest in reading literary pieces.
- Expose them to native cultural experiences and situations in order to develop humane values and social awareness.
- Develop overall linguistic competence and communicative skills of the students

Marathi General Paper-2 (G-2)

Sahitik Marathi/Vhyahvarik ani Upyojit Marathi

- Introduce standard writing practices.
- Develop the skill of translation.
- Understand aspects of Biography and Autobiography.
- Develop ability to appreciate and evaluate selected Biographies and Autobiographies in modern Marathi literature.

Marathi Special Paper-1 (S-1)

Marathi Sahityatil Vividh Sahityaprakar

- Provide basic knowledge of Marathi literature.
- Introduce literary classics of different historical periods.
- Create and cultivate taste in Marathi literature.
- Create perspectives to analyse, evaluate and appreciate literary texts.
- Develop ability for in-depth study of literature.

Marathi Special Paper-2 (S-2)

Arvachin Marathi Wangmayacha Abhayas

- Study the history of Marathi literature.

- Clarify the concept of literary history.
- Introduce the nature, source and types of Marathi literature from 1818 to 1960.
- Introduce the major Marathi writers and their works from 1818 to 1960.

Hindi General Paper-2 (G-2)

Story, Poetry and Writing in Hindi

- Develop ability to appreciate stories, poems and plays in Hindi.
- Develop close understanding of various genres in Hindi literature.
- Familiarize learners with the socio-political contexts of various Hindi writers.
- Instil nationalistic values among students through the study of Hindi literature.

Hindi Special Paper-I (S-1)

Development of Hindi Language

- Introduce various aspects of Hindi language and enable them to handle the language with accuracy and precision.
- Introduce basic theories of linguistics to students.
- Introduce students to Hindi as the national language and familiarize them with various agencies that promote Hindi as the national language.

Hindi Special Paper-II (S-2)

Novel, Drama and Medieval Poetry

- Introduce students to various literary forms in Hindi such as novels and dramas.
- Enhance the ability to appreciate Hindi poetry, novels and dramas.
- Introduce the medieval Bhakti Movement and the poets and writers associated with it.
- Familiarize the learners with the literary output of major writers of the medieval period.

General English Paper-II (G-2)

Study of English Language and Literature

- To expose students to the basics of short story, one of the literary forms

- Familiarize students with different types of short stories in English
- Understand the literary merit, beauty and creative use of language
- Introduce some advanced units of language so that they become aware of the technical aspects and their practical usage
- Prepare students to go for detailed study and understanding of literature and language
- Develop integrated view about language and literature in them

English Special Paper-I (S-1)

Appreciating Drama

- Acquaint and familiarize students with the terminology in Drama Criticism (i.e. the terms used in Critical Analysis and Appreciation of Drama)
- Encourage students to make a detailed study of a few sample masterpieces of English Drama from different parts of the world
- Develop interest among the students to appreciate and analyze drama independently.
- Enhance students awareness in the aesthetics of Drama and to empower them to evaluate drama independently

English Special Paper-II (S-2)

Appreciating Poetry

- Acquaint and familiarize the students with the terminology in poetry criticism (i.e. the terms used in critical analysis and appreciation of poems)
- Encourage students to make a detailed study of a few sample masterpieces of English poetry.
- Enhance students' awareness in the aesthetics of poetry and to empower them to read, appreciate and critically evaluate the poetry independently.

History General Paper-II (G-2)

Modern India (1857-1950)

- Help students to know- History of freedom movement of India, aims, objectives, problems and progress of Independent India.

- Enable students to understand the processes of rise of modern India.
- Acquaint students with fundamental aspects of Modern Indian History.
- Explain the basic concepts/ concerns/ frame work of Indian History.

History Special Paper-I (S-1)

Ancient India (3000 B.C. to 1206 AD)

- Survey the sources of history of Ancient India.
- Provide understanding of social, economic, religious and institutional bases of Ancient India.
- Study the ancient Indian agriculture, Industry and trade.
- Study the development of the concept of Nation- State background of political history.
- Study ancient Indian Art & Architecture.

History Special Paper-II (S-2)

Medieval India (1206-1707 AD)

- To survey the sources of History of medieval India.
- Provide an understanding of the social, economic, religious bases of medieval India.
- Study medieval Indian art & architecture.

Economics General Paper-II (G-2)
Modern Banking

- Create awareness among students about Modern Banking System.
- Banking constitutes important components towards understanding of economics.
- Inculcate clear understanding of the operations of banking.
- Knowledge of New Technology in Banking.

Economics Special Paper-I (S-1)

Micro Economics

- Understand the behaviour of economic factors.

- Develop Knowledge of the price fluctuation in a market.
- Basic concept of Micro Economics.
- Understand the problems of investment and welfare economics.

Economics Special Paper-II (S-2)

Macro Economics

- Major area of economic analysis in terms of theoretical, empirical as well as policy-making issues.
- Develop Extensive, substantive as well as methodological content.
- Understand the basic concept of Macro Economics and application.
- Create the basic theoretical framework underlying the field of Macro Economics.

Psychology General Paper -II (G-2)

Social Psychology

- Acquaint students with basic concepts, theories and applications of social psychology
- Familiarize students with group behaviour.
- Underline the importance of close relationships and pro-social behaviour.

Psychology Special Paper-I (S-1)

1 A: ***Abnormal Psychology***

- Acquaint students with the recent classification of abnormality.
- Acquire the knowledge about the causes, symptoms and treatments of various types of psychological disorders.

Psychology Special Paper-II (S-2)

2A: Developmental Psychology

- Acquaint the students with the basic concepts of human development processes.
- Help the students to understand influences of various factors on development.

Geography General Paper-II (G-2)

Climatology

- Introduce the students to the basic principles and concepts in Climatology and Oceanography.
- Acquaint the students with the applications of Climatology and Oceanography in different areas and environment.
- Make students aware of the Planet Earth and thereby to enrich the student‘s knowledge.

Geography Special Paper-I (S-1)

Economic Geography

- Introduce students to the basic principles and concepts in Economic Geography
- To acquaint the students with the applications of Economic Geography in different areas and development.
- Integrate and understand the various factors of economic development and to acquaint the students about this dynamic aspect of economic geography

Geography Special Paper-II (S-2)

Fundamentals of Geographical Analysis

- Enable students to use various Projections and Cartographic Techniques.
- Acquaint students with the basics of Statistical data.
- Acquaint students with the principles of surveying, its importance and utility in the geographical study.

Political Science General Paper-II (G-2)

Political Theory and Concepts

- Introduce students to the concept, ideas and theories in political science.
- Explain the evolution and application of the prominent political theories.
- Emphasize the continuing relevance of these theories and concepts.

Political Science Special Paper-I (S-1)

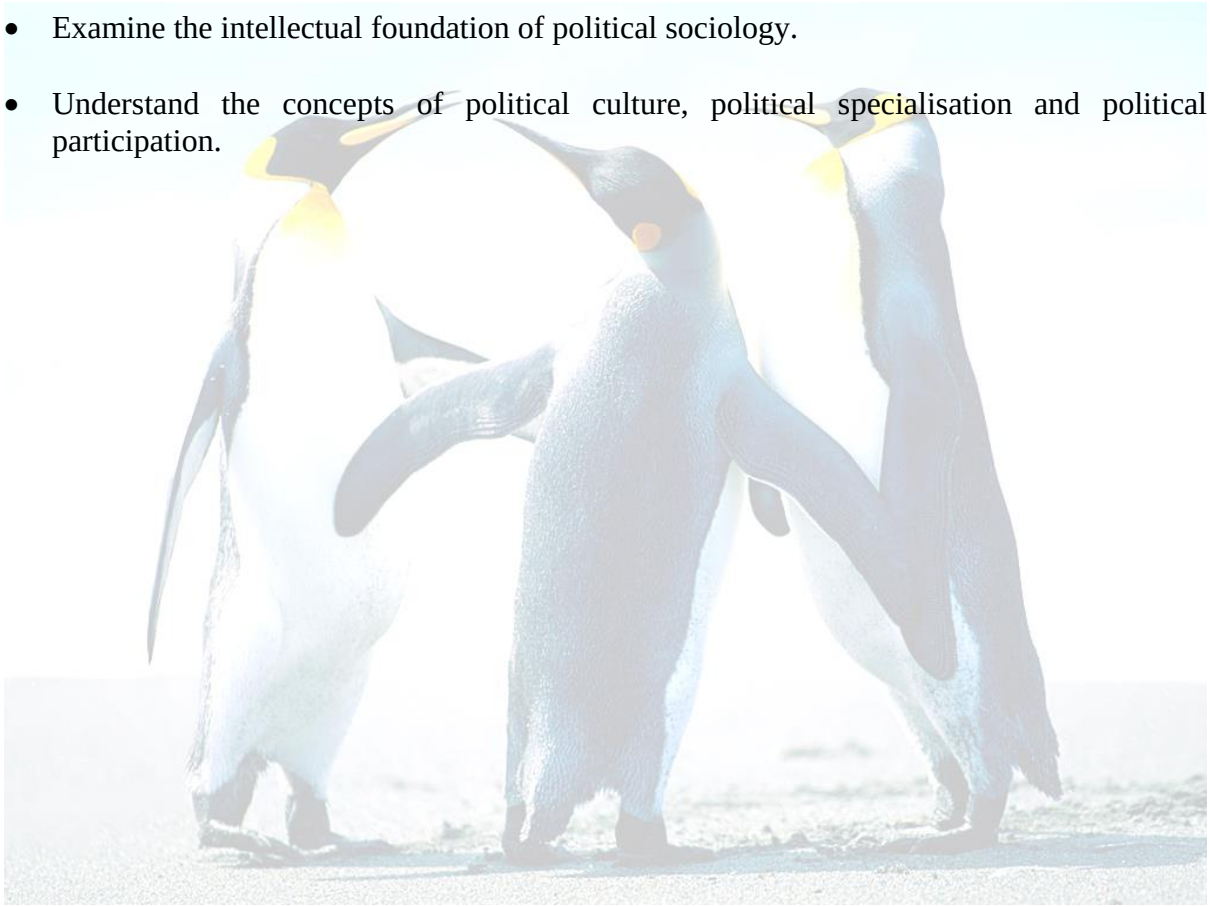
Western Political Thought

- Study classical tradition in political theory from Plato to Marx.
- Understand the universality of the enterprise of political theorising.
- Critically examine the limitations of these theories.

Political Science Special Paper-II (S-2)

Political Sociology

- Study the definitions, nature and scope of political sociology.
- Examine the intellectual foundation of political sociology.
- Understand the concepts of political culture, political specialisation and political participation.



T. Y. B. A.

Compulsory English

- Introduce students to the best uses of language in literature.
- Familiarize students with the communicative power of English
- Enable students to become competent users of English in real life situations
- Expose students to varied cultural experiences through literature
- Contribute to students overall personality development by improving their communicative and soft skills

Marathi General Paper-3 (G-3)

Adhunik Marathi Sahitya ani Vyawharik Marathi

- Introduce various movements in Modern Marathi literature.
- Generate interest in modern Marathi literature among students.
- Provide close understanding of selected literary texts.
- Introduce students to media.
- Develop skill in preparing materials for media including Newspaper, Radio and TV.

Marathi Special Paper-3 (S-3)

Sahityavichar

- Explain the nature and function of literature.
- Explain the nature of the process of literary creation and the concept of literary genus.
- Analyse the process of literary appreciation.
- Provide knowledge of some fundamental concepts in literary appreciation.

Marathi Special Paper-4 (S-4)

- Understand the development of Marathi language in the light of linguistic theories.
- Understand the evolution of Marathi language.
- Study the basic features of Marathi language.

- Introduce students to historical and descriptive linguistics.

Hindi General Paper-III (G-3)

- Familiarize students with literary critical terminology used in Hindi.
- Enhance skill of translating various types of texts from other languages.
- Enhance the ability to draft official and scientific documents in Hindi.

Hindi Special Paper-III (S-3)

History of Hindi Literature

- Familiarize with the rich history and tradition of Hindi literature.
- Identify and understand the various phases in the history of Hindi literature and the salient features of each of these phases.
- Familiarize with the development and progress of Hindi language and literature.

Hindi Special Paper-IV (S-4)

Poetics

- Familiarize students with various aspects of literature, its purpose and modes of appreciation.
- Impart knowledge of theories and types of literature and literary criticism.
- Familiarize students with figures of speech and their usage in poetry.

General English III (G-3)

Advanced Study of English Language and Literature

- Expose students to some of the best samples of Indian English Poetry
- Make students see how Indian English poetry expresses the ethos and culture of India
- Understand creative uses of language in Indian English Poetry
- Introduce students to some advanced areas of language study
- Prepare students to go for detailed study and understanding of literature and language
- Develop integrated view about language and literature among the students

English Special Paper III (S-3)

Appreciating Novel

- Introduce students to the basics of novel as a literary form
- Expose students to the historical development and nature of novel
- Make students aware of different types and aspects of novel
- Develop literary sensibility and sense of cultural diversity in students
- Expose students to some of the best examples of novel

English Special Paper IV (S-4)

Introduction to Literary Criticism

- Introduce students to the basics of literary criticism
- Make students aware of the nature and historical development of criticism
- Make them familiar with the significant critical approaches and terms
- Encourage students to interpret literary works in the light of the critical approaches
- Develop an aptitude for critical analysis.

History General Paper III (G-3)

History of the World in 20th Century (1914-1992)

- Help students to know Modern World and acquaint with the Socio- economic & Political developments in other countries. And understand the contemporary world in the light of its background History.
- To orient the students with political history of Modern World.
- Acquaint with the main developments in the Contemporary World (Understand the important development in the 20th century World.)
- Impart knowledge about world concepts.
- Enable students to understand the economic transition in World during the 20th Century.

History Special Paper III (S-3)

Introduction to History

- Orient students about how history is studied, written and understood.
- Explain the methods and tools of data collection
- Understand the meaning of Evolution of Historiography.
- Study the Various Views and approaches to Historiography.
- Study the types of Indian Historiography.

History Special Paper IV (S-4)

History of Asia in 20th Century (1914-1992)

- Orient students with political history of Asia.
- Enable students to understand the economic transition in Asia during 20th Centuries.
- Understand the important developments in the 20th century Asia in a thematic approach.
- Provide students with an overall view and broad perspective about different movements connected with Nationalist aspirations in the region of Asia in general.
- Empower students to cope with the challenges of globalization.

Geography General Paper III (G-3)

Human Geography

- Acquaint students with the nature of man environment relationship and human capability to adopt and modify the environment under its varied conditions from primitive life style to the modern living.
- Identify and understand environment and population in terms of their quality and spatial distribution pattern.
- Comprehend the contemporary issues facing the global community.

Geography Special Paper III (S-3)

Agricultural Geography

- Introduce the students to the basic principles and concepts in Agriculture Geography

- Acquaint with the applications of Agriculture Geography in different areas and development.
- Integrate and understand the various factors of Agriculture development.
- Acquaint with the dynamic aspect of Agriculture Geography.

Geography Special Paper IV (S-4)

Map Toposheet and Statistical Analysis

- Introduce students to SOI Toposheets and acquire the knowledge of Toposheet Reading/Interpretation.
- Familiarize the students with the weather instruments and their applications in geographical phenomena.
- Acquaint the learners with IMD weather maps and gain the knowledge of weather map reading/ interpretation.
- Train students in elementary statistics as an essential part of geography.
- Create awareness about GIS among the students.

Economics General Paper III (G-3)

Economic Development & Planning

- Analyse chronic problems of narrow economic base, inefficiency and low standard of living.
- Provide the basic concept of Economics Development.
- Knowledge of Economic Development & Planning.
- Provide the details Knowledge of economic development theories.

Economics Special Paper III (S-3)

International Economics (3158)

- Understand basic concept of International Economics.
- Knowledge of International trade theories.
- Analyse the recent changes in the export import policies of India.
- Analyse the International Regional Cooperation.

Economics Special Paper IV (S4)

Public Finance (3159)

- Analyse the changing role of the Government in an economy.
- Understand the basic concept of Public Finance.
- Analyse the Budget, Public Debt, Centre-State Financial Relationship.
- Knowledge of Public Finance theories.

Psychology General Paper-III (G-3)

Industrial and Organizational Psychology

To acquaint the students with:

- The emergence of Industrial and Organizational Psychology
- The work done in Industrial and Organizational Psychology
- The significance of training, performance appraisal, leadership models
- The importance of Engineering Psychology

Psychology Special Paper-III (S-3)

Scientific Research and Experimental Psychology

- Acquaint students with the basic concepts of experimental psychology and research methodology
- Develop the spirit of scientific inquiry in the students,
- Help students generate ideas for research and develop hypotheses and operational definitions for variables.
- Help students to understand the basic steps in scientific research.
- Equip with the basic information and knowledge about test-administration and scoring, and interpretation of the obtained results.
- Enable students to undertake an independent small-scale research project.

Psychology Special Paper IV (S-4)

Psychology Practical: Test and Experiments

- Familiarize the students with the use of elementary statistical techniques
- Provide practical experience to the students in administering and scoring psychological tests and interpreting the scores
- Acquaint with the basic procedure and design of psychology experiments
- Encourage and guide students to undertake a small-scale research project.
- Encourage students to learn practical application through study tour and visit.

Political Science General Paper-III (G-3)

Political Ideologies

- Study the role of different political ideologies and their impact on politics.
- Critically study each ideology in its historical context.
- Emphasize the philosophical basis of the prominent political ideologies.
- Assess the legacy of all major ideologies.

Political Science Special Paper-III (S-3)

Local Self Government in Maharashtra

- Introduce the students to the structure of local self-government in Maharashtra.
- Create awareness of local self-institutions, their functions, composition and importance.
- Identify the role of local government and local leadership in development.

Political Science Special Paper-IV (S-4)

International Politics

- Study the concepts and dimensions of international politics.
- Analyse the major debates and differences within the different theoretical paradigms.
- Assess the various approaches to study international politics.
- Understand the meaning, nature and characteristics of power.

BACHELOR OF COMMERCE (B. COM.)

Students pursuing B. Com. are expected to have following outcome from each of the Courses taught:

- **F. Y. B. Com.**

Compulsory English

- Introduce students with good pieces of prose and poetry so that they realize the beauty and communicative power of English
- Expose students to native cultural experiences and situations so that they understand the importance and utility of English language
- Develop overall linguistic competence and communicative skills among the students
- Develop oral and written communicative skills among the students

Financial Accounting

- Impart knowledge of various accounting concepts
- Knowledge about accounting procedures, methods and techniques.
- Acquaint with practical approach to account writing by using software package.

Business Economics (Micro)

- Expose students of Commerce to basic micro economic concepts and inculcate an analytical approach to the subject matter.
- Stimulate students 'interest by showing the relevance and use of various economic theories.
- Apply economic reasoning to problems of business.

Business Mathematics and Statistics

- Prepare for competitive examinations
- Understand the concept of Simple interest, compound interest and the concept of EMI
- Understand the concept of shares and to calculate Dividend
- Understand and to calculate various types of averages and variations.
- Understand the concept and application of profit and loss in business.

- Solve LPP to maximize the profit and to minimize the cost.

Computer Fundamentals

- Make the students familiar with computer environment.
- Familiarize with the basics of Operating System and business communication tools.
- Acquaint with basics of Network, Internet and related concepts.
- Create awareness among students about applications of internet in Commerce.
- Enable students to develop their own web site.

Optional Group:

Banking and Finance [Fundamentals of Banking]

- To acquaint the students with the fundamentals of banking.
- To develop the capability of students for knowing banking concepts and operations.
- To make the students aware of banking business and practices.
- To give thorough knowledge of banking operations.
- To enlighten the students regarding the new concepts introduced in the banking system

Marketing and Salesmanship [Fundamentals of Marketing]

- To create awareness about market and marketing.
- To establish link between commerce/Business and marketing.
- To understand the basic concept of marketing.
- To understand marketing philosophy and generating ideas for marketing research.
- To know the relevance of marketing in modern competitive world.
- To develop an analytical ability to plan for various marketing strategy.

Business Environment & Entrepreneurship

- To make the students aware about the Business Environment.
- To create entrepreneurial awareness among students,
- To motivate students lo make their mind set for taking up entrepreneurship as career

Additional Papers:

Additional Marathi

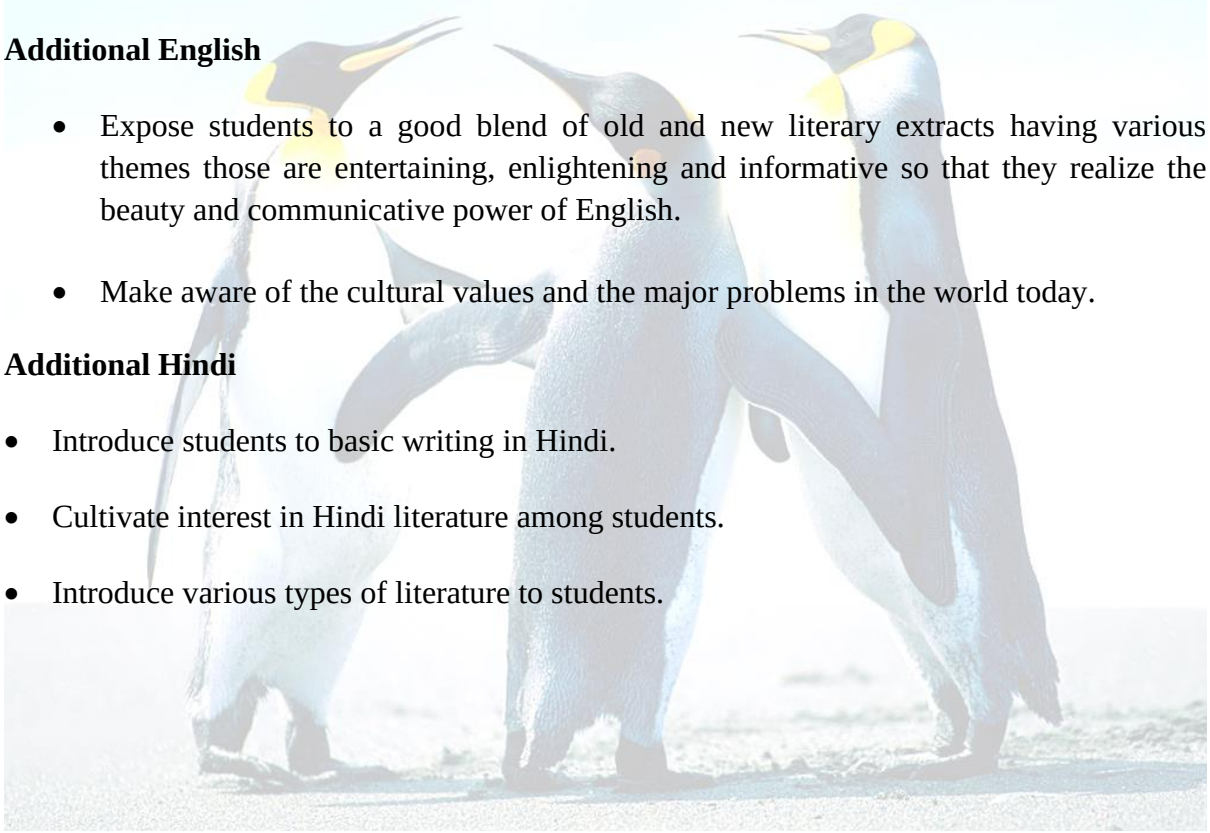
- Introduce commerce students to conduct business transactions in Marathi.
- Clarify the role of Marathi as a medium of trade and commerce.
- Develop ability to use mass media and communication to learn and teach Marathi.
- Develop ability to write for media.
- To sensitize students to the importance of Marathi in official, administrative and academic spheres.

Additional English

- Expose students to a good blend of old and new literary extracts having various themes those are entertaining, enlightening and informative so that they realize the beauty and communicative power of English.
- Make aware of the cultural values and the major problems in the world today.

Additional Hindi

- Introduce students to basic writing in Hindi.
- Cultivate interest in Hindi literature among students.
- Introduce various types of literature to students.



- **S. Y. B. Com.**

Business Communication

- Understand the concept, process and importance of communication.
- Develop awareness regarding new trends in business communication.
- Provide knowledge of various media of communication.
- Develop business communication skills through the application and exercises.

Corporate Accounting

- Create awareness about Corporate Accounting in conformity with the provisions of Companies Act and Accounting as per Indian Accounting Standards.
- Make aware about the conceptual aspect of corporate accounting
- Enable students to develop skills for Computerized Accounting
- Enable students to develop skills about accounting standards

Business Economics (Macro)

- Familiarize the students the basic concept of Macro Economics and application.
- Study the behaviour of the economy as a whole.
- Study the relationship among broad aggregates.
- Apply economic reasoning to problems of the economy.

Business Management

- Provide basic knowledge & understanding about business management concept.
- Understand various functions of management.

Elements of Company Law

- Impart knowledge of fundamentals of Company Law.
- Update the knowledge of provisions of the Companies Act of 2013.
- Apprise students about new concepts involving in company law regime.
- Acquaint with the duties and responsibilities of Key Managerial Personnel.

- Impart students with the provisions and procedures under company law.

Special Paper I

Banking & Finance

- Create awareness among the students of Indian banking system.
- Enable students to understand the reforms and other developments in the India Banking.
- Provide students insight into the functions and role of Reserve Bank of India.

Cost and Works Accounting

- Impart knowledge of basic cost concepts.
- Understand elements of cost.
- Impart the knowledge of ascertainment of Material and Labour Cost.

Business Entrepreneurship

- Create entrepreneurial awareness among the students.
- Provide the conceptual background of types & patterns of Entrepreneurship.
- Develop entrepreneurial competencies among students.

Marketing Management

- Orient the students understand recent trends in marketing management.
- Create awareness about marketing of eco-friendly products in the society through students.
- Provide knowledge of various aspects of marketing management through practical approach.
- Acquaint the students with the use of E-Commerce in competitive environment.
- Help students understand the influences of marketing management on consumer behaviour.

- **T.Y. B.Com**.

Business Regulatory Framework (Mercantile Law)

- Acquaint students with the basic concepts, terms & provisions of Mercantile and Business Laws.
- Develop the awareness among the students regarding these laws affecting business, trade and commerce.

Advanced Accounting

- Impart knowledge of various accounting concepts
- Instil knowledge about accounting procedures, methods and techniques.
- Acquaint with practical approach to accounts writing by using software package.

Indian & Global Economic Development

- Expose students to a new approach to the study of the Indian Economy.
- Help students in analysing the present status of the Indian Economy.
- Enable students to understand the process of integration of the Indian Economy with other economics of the world.
- Acquaint students with the emerging issues in policies of India‘s foreign trade.

Banking & Finance Special Paper II

Financial Markets and Institutions in India

- Acquaint the students with Financial Markets and its various segments.
- Understand the operations and developments in financial markets in India.
- Enable students to gain an insight into the functioning and role of financial institutions in the Indian Economy.

Auditing and Taxation

- Acquaint the students with the concept and principles of Auditing, Audit process, Assurance Standards, Tax Audit, and Audit of computerized Systems.
- Get knowledge about preparation of Audit report.

- Understand the basic concepts and to acquire knowledge about Computation of Income, Submission of Income Tax Return, Advance Tax, and Tax deducted at Source, Tax Collection Authorities under the Income Tax Act, 1961.

Cost and Works Accounting **Special Paper II**

- Provide knowledge about the concepts and principles application of overheads
- Understand various methods of costing and their applications.

Business Entrepreneurship **Special Paper II**

- Understand the basic concepts of entrepreneurship and preparing a business plan to start a small industry.
- Develop Knowledge and understanding in creating and managing new venture.
- Equip students with necessary tools and techniques to set up their own business venture.
- Help students to bring out their own business plan.
- Make students aware about business crises and sickness.

Marketing Management **Special Paper II**

- Understand the concept and functioning of marketing planning and sales management.
- Get knowledge of marketing strategies and organization
- Inform various facets of marketing with regulatory aspects.
- Understand marketing in globalize scenario

Banking & Finance Special Paper III

Banking Law and Practices in India

- Acquaint students with Banking Law and Practice in relation to banking system in India.
- Understand the legal aspects of banking transactions and its implications as Banker and Customer.
- Make students aware of the Banking Law and Practice in India.

Cost and Works Accounting **Special Paper III**

- Impart knowledge regarding costing techniques.

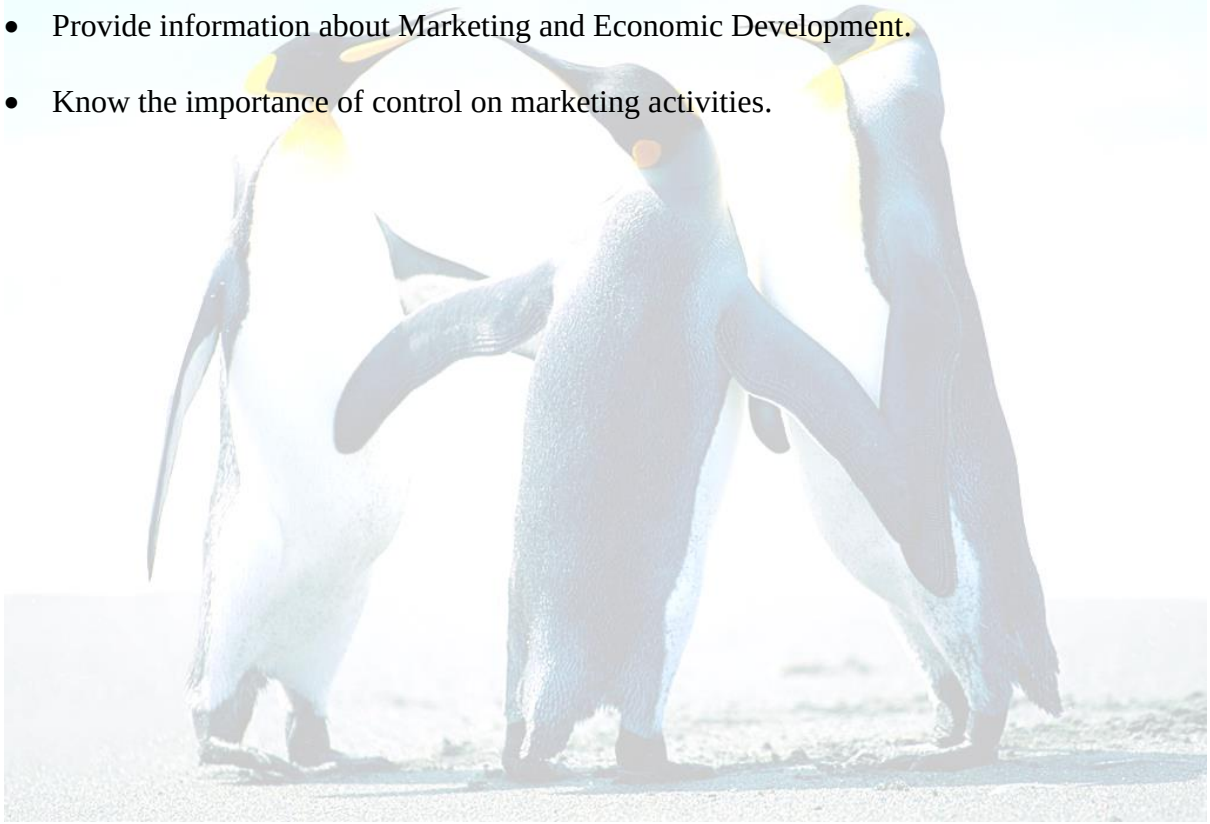
- Provide training as regards concepts, procedures and legal provisions of cost audit.

Business Entrepreneurship **Special Paper III**

- Develop knowledge and understand behavioural aspects of entrepreneurship.
- Acquaint students with the behavioural aspects of members of the team or employees

Marketing Management **Special Paper III**

- Impart the knowledge of Marketing Research.
- Enable students to understand the role brand and Distribution Management in marketing.
- Provide information about Marketing and Economic Development.
- Know the importance of control on marketing activities.



BACHELOR OF SCIENCE (B.SC.)

Students pursuing B. Sc. are expected to have following outcome from each of the Courses taught:

- **F. Y. B. Sc.**

Physics (**Semester I)** ***Mechanics***

- Familiarize students with basic concepts of kinematics.
- Have deep understanding of Newton's laws of motion and their applications.
- Understand the concepts of work and energy thoroughly
- Understand the phenomena of surface tension and its applications.
- Familiarize them with the fluid mechanics.
- Enable students to solve numerical problems involving topics covered.

Principles and Applications **(Paper II Section I)**

- Familiarize with the conceptual development of atomic model.
- Understand the various types of bonding between the atoms.
- Familiarize with the concept of electromagnetic wave and applications of electromagnetic waves.
- Enable students to solve numerical problems involving topics covered.

Semester II

Heat and Thermodynamics **(Paper I Section II)**

- Understand the equation of state and study deeply various experiments regarding it.
- Enable students to understand the laws of thermodynamics and thermodynamic processes.
- Study the concept of entropy thoroughly.
- Study heat engines and their efficiency.
- Study the various temperature scales, types of thermometers and their working principles.
- Enable to solve numerical problems involving topics covered.

Electricity and Magnetism **(Paper II Section II)**

- Understand the basic concepts and laws in electrostatics.
- Study the basic concepts and laws in dielectrics.
- Knowledge of the basic concepts and laws of magnetism.
- Familiarize students with magnetic materials and their properties.
- Enable students to solve numerical problems involving topics covered.

Electronics

Semester I

- Familiarize students with the basic electronic components.
- Understand the network theorems thoroughly.
- Have deep knowledge about semiconductor devices.
- Be familiar with the power supplies.
- Understand digital electronics.
- Solve numerical problems involving topics covered.

Semester II

Oscillations, Waves and Sound (PH 221)

- Understand undammed / damped / forced oscillations thoroughly.
- Be able to understand the wave motion.
- Understand Doppler effects in sound / light.
- Familiarize students with the basic concepts of Acoustics.
- Enable students to solve numerical problems involving topics covered.

Chemistry

PAPER – I: PHYSICAL & INORGANIC CHEMISTRY

FIRST TERM – SECTION I

PHYSICAL CHEMISTRY

1. Chemical Mathematics

- Understand all the rules of logarithms.
- Enable students to convert negative mantissa into positive (i.e. convert natural to logarithm and vice versa)
- Calculate pH and pOH.
- Plot the given data on graph paper.

2. Gaseous State:

- Explain ideal and non- ideal behaviours of (real) gas on the basis of PV against P relationship.
- Deviation of gases from Ideal behaviours.
- Define compressibility factor Z and Boyle temp.

3. Chemical Thermodynamics

- Limitation of first law/ Necessity to study second law of thermodynamics
- Cyclic process such as Carnot's cycle.
- Operation of Carnot's cycle to determine thermodynamic efficiency.
- Statement of second law based on thermodynamic efficiency.

PAPER – I: PHYSICAL & INORGANIC CHEMISTRY
FIRST TERM – SECTION II

INORGANIC CHEMISTRY

1. Chemistry of hydrogen

- Element hydrogen its electronic configuration
- Probable Position in periodic table
- Detail discussion regarding its position.
- Definition of isotopes.

2. Hydrogen bonding

- Definition

- Types: intramolecular and intermolecular hydrogen bonding with examples.
- Effect of hydrogen bonding on following physical properties with explanation m.p, b.p., Physical State, Solubility & Viscosity.

3. Stoichiometry

- Normality, Molarity, Normal Solution, Molar Solution, Equivalent Weight, PPM and Related Problems.
- Mole Concept.
  - GMV relationship student should able to solve problems based on GMV relationship.
  - Standard Solution, Primary and Secondary Standard Substances and standardization of solution, related problems.

PAPER – I: PHYSICAL & INORGANIC CHEMISTRY

SECOND TERM – SECTION I

PHYSICAL CHEMISTRY

1. Atomic structure

- Explain the Dalton's atomic theory.
- Explain the production, properties of cathode ray and discovery of electron.

2. Colloids

- What are colloids?
- General properties of colloids

3. Catalysis

- To know the meaning of catalyst, catalysis, positive and negative catalysis.
- Explain homogenous and heterogeneous catalysis with examples.

PAPER – I: PHYSICAL & INORGANIC CHEMISTRY

SECOND TERM – SECTION II INORGANIC CHEMISTRY

- Electronic Configuration
- Attainment of electronic configuration
- Definition of different types of bonds with example (Ionic, Covalent, Coordinate and metallic bonds)

- Formation of bond, need of bond formation.
- Overlapping of atomic orbital to form σ and π bond with example.

Paper – II – Organic & Inorganic Chemistry
Section I (Organic Chemistry)

- Appreciate the historical development of Organic chemistry its versatility in all walks of life and its potential to meet the needs of challenges of tomorrow.
- Understand the fundamental concepts, which govern the structure, bonding, properties and reactivates of organic molecules such as covalent character, hybridization, bond angles bond energies, bond angles, bond polarities, shapers of molecules.
- Name the organic compounds for mono functional group when structure is given or vice versa (Common and IUPAC Names)

Paper – II- Organic and Inorganic Chemistry

Second Term (Section – II): Inorganic Chemistry

- Meaning of S-block elements, alkali metals and alkaline earth metals.
- Position of S- block elements in periodic table.
- Alkali metals and alkaline earth metals, their electronic configuration, Occurrence, trends in periodic properties including atomic and ionic size, oxidation state, ionization Potential, electro negativity and reactivity.
- Anomalous behaviour of Lithium and beryllium.

Botany (Semester I) Paper I: Plant Diversity

- Create awareness about fundamental plant group system in nature.
- Equip the students with all life science fundamental practical skills.

Paper II: **Industrial Botany I**

- Understand the terminology in industrial economically important plant species.
- Study its eco-friendly conservation and sustainable utilization.

Semester II

Paper I: Plant Morphology and Anatomy

- Introduce the students to understand the various forms of plants, morphological features and plant terminology.

- Analyse the peculiar characteristics of plant groups in relation with their internal characteristics.

Paper II: Industrial Botany II

- Understand some important terminology in industrial economically important higher plant group species.

- Study eco-friendly conservation and sustainable utilization of non-woody forest products.

Mathematics

- Enable to recall the basic facts about mathematics and display knowledge of conventions such as notations, terminology
- Get knowledge of relational understanding of mathematical concepts and concerned structures
- Get adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences.
- Enable students to apply their skills and knowledge to translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
- Create awareness about the history of mathematics and hence of its past, present and future role as part of our culture.

F.Y. B. Sc. (Computer Science)

- To develop problem solving abilities using a computer
- To build the necessary skill set and analytical abilities for developing computer based solutions for real life problems.
- To imbibe quality software development practices.
- To create awareness about process and product standards
- To train students in professional skills related to Software Industry.
- To prepare necessary knowledge base for research and development in Computer Science
- To help students build-up a successful career in Computer Science

Problem Solving Using Computers and 'C' Programming

- To develop Problem Solving abilities using computers
- To teach basic principles of programming
- To develop skills for writing programs using ‘C’

File Organization and Fundamental of Databases

- To understand data processing using computer
- To teach basic organization of data using files
- To understand creations, manipulation and querying of data in databases

Electronics

- To provide in-depth knowledge of scientific and technological aspects of electronics
- To familiarize with current and recent technological developments
- To enrich knowledge through programmes such as industrial visits, hobby projects, market survey, projects etc.
- To train students in skills related to electronics industry and market.
- To create foundation for research and development in Electronics
- To develop analytical abilities towards real world problems
- To help students build-up a progressive and successful career in Electronics

ELC-101: Principles of Analogue Electronics

- To get familiar with basic circuit elements and passive components
- Understand DC circuit theorems and their use in circuit analysis
- Study characteristic features of semiconductor devices
- Study elementary electronic circuits and applications
- Understand basics of operational amplifiers.

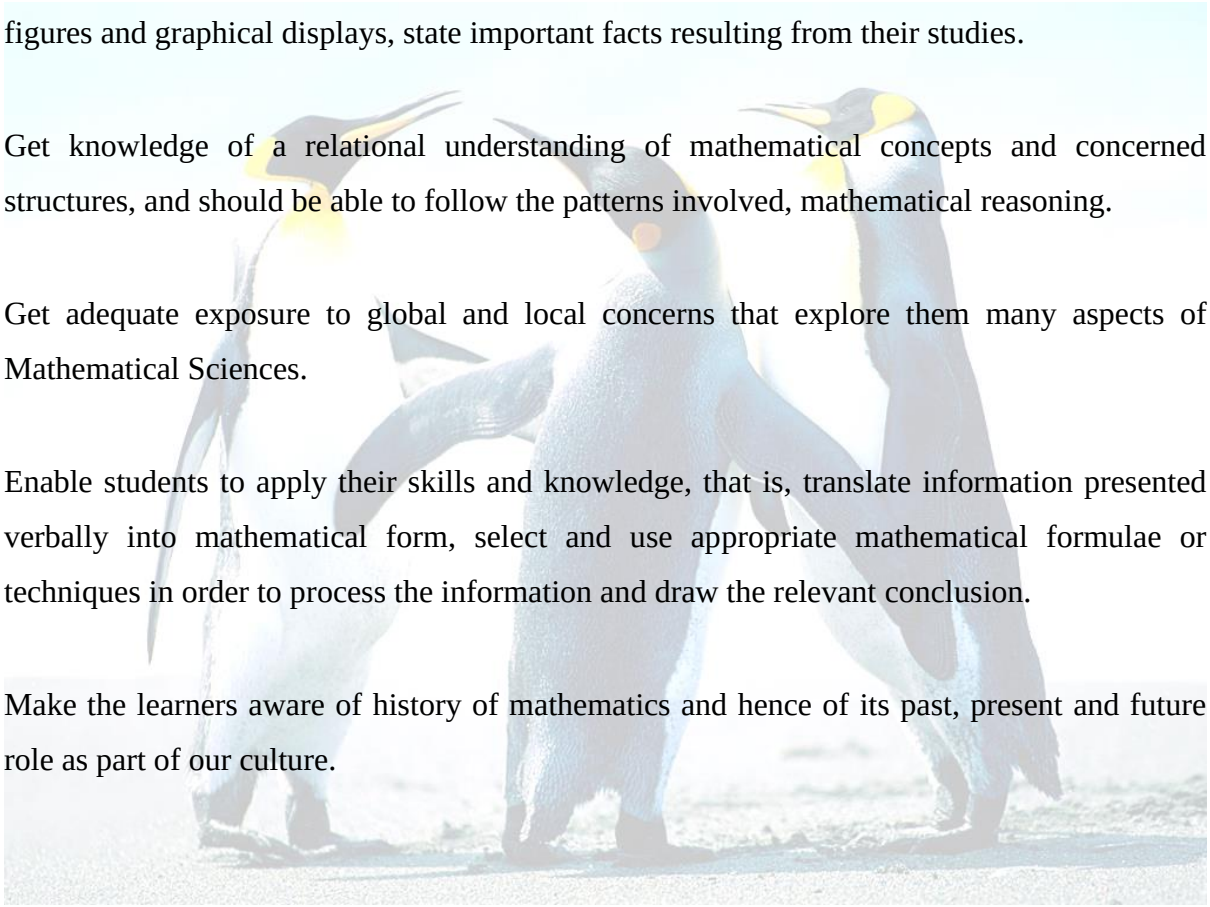
ELC-102: Principles of Digital Electronics

- Get familiar with concepts of digital electronics

- Learn number systems and their representation
- Understand basic logic gates, Boolean algebra and K-maps
- Study arithmetic circuits, combinational circuits and sequential circuits
- Study comparative aspects of logic families.

Mathematics

- Enable students to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology and recognize basic geometrical figures and graphical displays, state important facts resulting from their studies.



- Get knowledge of a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.

- Get adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences.

- Enable students to apply their skills and knowledge, that is, translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.

- Make the learners aware of history of mathematics and hence of its past, present and future role as part of our culture.

S. Y. B. Sc.

Physics
Semester I
Mathematical Methods in Physics

- Familiarize students with the main mathematical methods used in physics.
- Familiarize students with the main vector algebra.
- Get acquaintance with the differential equations.
- Apply these mathematical methods to solve problems in physics.

Chemistry

- Understand the concept of kinetics, terms used, rate laws, types of order, Discuss examples of first order and second order reaction, Techniques of measurement of rate of reaction .
- Differentiate between ore and minerals, calcination and roasting and smelting, and to know the different methods for separation of gangue or matrix from metallic compounds and the terms smelting, flux.
- Understand the basic principles in qualitative analysis & quantitative analysis.
- Implement the knowledge of qualitative analysis in experiments.
- Classify the compounds with different functional groups.
- Differentiate between properties of pig iron and wrought iron & to explain the basic principles of different methods for preparation of steel.
- Enable to know methods of prevention of metal from corrosion.
- Knowledge about Ideal and non-ideal solutions and laws governing these solutions.
- Understand the different way to express concentrations of the solution & preparation of standard solution.
- Know the different ways to express concentrations of the solution.
- Appreciate the role of biochemistry in the day to day life & understand the importance of biochemistry.
- Know about toxic chemical in the environment & there effects.
- Verify theoretical principles experimentally, Interpret the experimental data, improve analytical skills & Correlate the theory and experiments and understand their importance.

Botany
Semester I

Paper I: Taxonomy of Angiosperm and Plant Community

- Familiarize with basic terminology, plant systematics and its different classification.
- Students cop up with the ecosystem mechanism, analysing plants ecosystem in its biogeochemical cycles.

Paper II: Plant Physiology

- Make aware of mechanism in functioning of plant metabolism.
- Understand the root level plant physiology knowledge for the other botany streams like Plant genetics and Plant biotechnology.

Semester II

Paper I: Plant Anatomy and Embryology

- Knowledge of anatomical characterization of plant for the understanding ecological adaptation.
- Understanding developmental botany terminology beneficial for future advance life science courses.

Paper II: Plant Biotechnology

- Focus on Biotechnological importance for improvement and satisfaction of all need of human kinds.
- Inculcate the knowledge for advance study in plant sciences.

Mathematics

- Enable students to recall basic facts about mathematics and display knowledge of conventions such as notations, terminology and recognize basic geometrical figures and graphical displays, state important facts resulting from their studies.
- Get knowledge of a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.
- Get adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences.
- Enable students to apply their skills and knowledge to translate information presented

verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.

- Create awareness about the history of mathematics and hence of its past, present and future role as part of our culture.

- **T. Y. B. Sc.**

Chemistry

Agriculture Chemistry

- Know the role of agriculture chemistry and its potential
- Understand basics of soil, properties of soil and its classification on the basis of pH
- Know the different plant nutrients, their functions and deficiency symptoms
- Understand the importance of manures as compared to chemical fertilizers‘
- Understand the importance of green manuring

Dairy Chemistry

- Understand the importance of the subject from the point of rural economy.
- Knowledge about the composition of milk, its food & nutritive value
- Understand the Microbiology of the milk
- Understand various preservation and adulterants, various milk proteins and their role for the human body.
- Know the various milk products, their composition, manufacture and uses.

Industrial Chemistry

- Understand the importance of sugar industry, Manufacture of direct, Consumption (plantation white) sugar with flow diagram, Cane juice extraction by various methods, Clarification by processes like carbonation, Sulphitation , Phosphatation, etc.
- Concentration of juice by using multiple effect evaporator system, Crystallization of sucrose by using vacuum pan.
- Know the importance of Fermentation Industry, Basic requirement of fermentation process, Manufacturing of ethyl alcohol by using molasses, Food grains, fruits and ethylene.
- Understand different types of soaps, detergents and Cosmetics products etc.

Analytical chemistry

- Understand the principles of Spectrophotometric analysis and properties of electromagnetic radiations
- Familitarize with terms like absorbance, transmittance, and molar absorptivity

- Knowledge of Mathematical Statement and derivation of Lambert‘s Law and Beer‘s Law

Organic Chemistry

- Enable students to get knowledge about basic organic chemistry, which includes various chemical reactions, their mechanisms & applications.
- Suggest synthetic route for preparation of various heterocyclic compounds.
- Knowledge of synthetic applications some reagents & to predict product/s or supply the reagent/s for these reactions.
- Applications of UV & visible spectroscopy.
- Determine structure and follow the course of reaction by IR spectrum.

Inorganic Chemistry

- Understand the formation of BMO, ABMO and NBMO in CO2 or NO2 molecule and construct MO energy level diagrams for them.
- Explain Charge Transfer Spectra, Be able to compare the different approaches to bonding in Coordination compounds.
- Study the geometry of different chemical compounds & to investigate their properties.
- Understand the need of concept of MOT & know LCAO principal and its approximation.
- Be able to identify which d-orbitals are involved in hybridization during formation of complexes with different geometries such as tetrahedral, square planar, trigonalbipyramidal and octahedral.

Physical Chemistry:

- Understand the meaning of specific resistance, specific conductance, cell constant and their units, Cell constant, its theoretical and experimental determination.
- Preparation of conductivity water, Experimental determination of conductance.
- Age determination- by Carbon-14 dating and Uranium-Lead/ Thorium-Lead Ratio, Medical applications-Assess the volume of blood in patients body by radioisotopes.

- Understand and apply the knowledge of conjugated systems in quantum chemistry.

Botany
A. Semester I
Paper I: Cryptogrammic Botany

- Create the foundation of all plant life cycles of cryptogrammic plant species and it correlate with experimental techniques.
- Understand the basic information of non-flowering primitive plants.
- Make aware about the economic and medicinal value of cryptogrammic plant.

Paper II: Cell and Molecular Biology

- Create the innovative approaches to aware the students in basic terminology of cell and molecular biology.
- Participate in laboratory experiments for understanding the basic principles of life sciences and helpful for gaining primary information.

Paper III: Genetics and Evolution

1) Study basic terms and subject application in life Sciences.

Paper IV: Spermatophyte and Pale botany

- Create awareness about the classification of plants on the basis of various morphological aspects.
- Understand the basic important terminology in the angiosperm and taxonomy helpful for advanced plant research.
- Knowledge about past flora and fossilized plant material.
- Understand time scale and origin of higher plant species on earth, this information is useful for the students for further evolutionary study.

Paper V: Horticulture and Floriculture

- Get information on economically important plant species which are commercialized for the

local and international market.

- Know aspects like habitat, growth condition, production of healthy plantlets and cultivation techniques.

Paper VI: Computational Botany

- Study the basic concept of computer technology.

B. Semester II

Paper I: Plan Physiology

- Understand the basic life science process in relation to the plant metabolism and catabolism process.
- Understand the interrelation between plant adaptations to external environment.
- Deal with plant metabolic cycles with Photosynthesis and Respiration process.

Paper II: Plant Ecology and Biodiversity

- Study all environmental burning aspects and also deals with basic ecological concepts.
- Advanced ecological theories give the notion concerning the impact of effluence on human health and on ecological progressions.
- To aware the students of maintaining the ecological cycle and sustainable utilisation of Biodiversity

Paper III: Plant Pathogen

- This curriculum is beneficial for agriculture, horticulture and crops streams. It focuses on the types of various diseases and its effect on crop production.
- Curricula is concerned with preventive measure should be taken to avoid the harmful diseases by eco-friendly method.

Paper IV: Medicinal and Economic Botany

- This subject deals with system of medicines and its application for day to day life. Students aware the medicinal value of plants.

- Students are made aware of the medicine system of classification and importance of plant for curing all diseases.

Paper V: Plant Biotechnology

- Innovative and recently findings in plant sciences included in these chapters.
- Framing of syllabus giving basic information regarding the plant biotechnology and its application in agriculture, Horticulture, medicinal and industrial crops.

Paper VI: Plant Breeding and Seed Technology

- It is fundamental branch of Botany, its syllabus deals with a basic plant propagation technique.
- Contents included in this subject will be beneficial for the students to understand to create a new variety of medicinal and agronomic crops.

Mathematics (Computer Science)

- A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology and recognize basic geometrical figures and graphical displays, state important facts resulting from their studies.
- A student should get a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.
- A student should get adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences.
- A student is enabled to apply their skills and knowledge, that is, translate information Presented.

Computer Science (Electronics)
Electronics –Semester I

Paper - I: Digital System Hardware (ELC 211)

- To study the applications of logic gates
- To use K-maps for digital circuit design
- To study and understand basics of microprocessors
- To understand fundamentals of multicore technology

Electronics-Semester I

Paper-II: Analogue Systems (ELC 212)

- To understand basics of analogue electronics
- To study different types of sensors
- To understand different types of signal conditioning circuits
- To learn data conversion techniques
- To apply knowledge of analogue systems in different applications

Electronics- Semester II

Paper-I: The 8051 Architecture, Interfacing & Programming (ELC 221)

- To study the basics of 8051 microcontroller
- To study the Programming and interfacing techniques of 8051
- To apply knowledge of 8051 to design different application circuits
- To introduce the basic concepts of advanced Microcontrollers

Electronics-Semester II

Paper- II: Communication Principles (ELC 222)

- To understand basics of communication systems.
- To understand modulation, demodulation and multiplexing of signals.
- To understand digital communication techniques
- To introduce concepts in advanced wireless communication

Electronics

Paper- III: Practical Course (ELC-203)

- To use basic concepts for building various applications in electronics.
- To understand design procedures of different electronic circuits as per requirement.
- To build experimental setup and test the circuits.
- To develop skills of analysing test results of given experiments.

Computer Science

To develop problem solving abilities using a computer

To build the necessary skill set and analytical abilities for developing computer based solutions for real life problems.

To imbibe quality software development practices.

To train students in professional skills related to Software Industry.

Computer Science Theory Paper I

Semester – 1

CS 211- DATA STRUCTURES USING 'C'

To learn the systematic way of solving problem

To understand the different methods of organizing large amount of data

To efficiently implement the different data structures

To efficiently implement solutions for specific problems

Computer Science Theory paper-II

Semester – I

CS-212-Relational Database Management System

To teach fundamental concepts of RDBMS (PL/PgSQL)

To teach principles of databases

To teach database management operations

To teach data security and its importance

CS-223: Data structures Practicals and C++ Practicals (Semester 1)

Design and implement Data structures and related algorithms

Understand several ways of solving the same problem.

CS-224: Database Practicals & Mini Project using Software

Engineering techniques

(Semester 1)

Database Assignments and Mini Project using Software Engineering techniques

Understanding the use of cursors, triggers, views and stored procedures

Understanding the steps of system analysis and design

Understanding Data requirements for a specific problem domain

Designing Data base as per the Data requirements

Designing queries as per the functional requirements

Computer Science Theory Paper I

Semester II

Object Oriented Concepts using C++

Acquire an understanding of basic object oriented concepts and the issues involved in effective class design

Write C++ programs that use object oriented concepts such as information hiding, constructors, destructors, inheritance etc

Computer Science Theory paper-II

Semester – II

Software Engineering

To teach basics of System Analysis and Design.

To teach principles of Software Engineering

To teach various process models used in practice

To know about the system engineering and requirement engineering

To build analysis model

Computer Science

To develop problem solving abilities using a computer

To build the necessary skill set and analytical abilities for developing computer based solutions for real life problems.

To imbibe quality software development practices.

To create awareness about process and product standards

To train students in professional skills related to Software Industry.

Systems Programming

To understand the design structure of a simple editor.

To understand the design structure of Assembler and macro processor for an hypothetical simulated computer.

To understand the working of linkers and loaders and other development utilities.

To understand Complexity of Operating system as a software.

Operating Systems

To understand design issues related to process management and various related algorithms

To understand design issues related to memory management and various related algorithms

To understand design issues related to File management and various related algorithms

Theoretical Computer Science

To have an understanding of finite state and pushdown automata.

To have a knowledge of regular languages and context free languages.

To know the relation between regular language, context free language and corresponding recognizers.

To study the Turing machine and classes of problems

Compiler Construction

To understand design issues of a lexical analyzer and use of Lex tool

To understand design issues of a parser and use of Yacc tool

To understand issues related to memory allocation

To understand and design code generation schemes

Computer Networks-I

Understand different types of networks, various topologies and application of networks.

Understand types of addresses, data communication.

Understand the concept of networking models, protocols, functionality of each layer.

Learn basic networking hardware and tools.

Computer Networks-II

Code No. : CS-343

Knowledge of basic networking concepts.

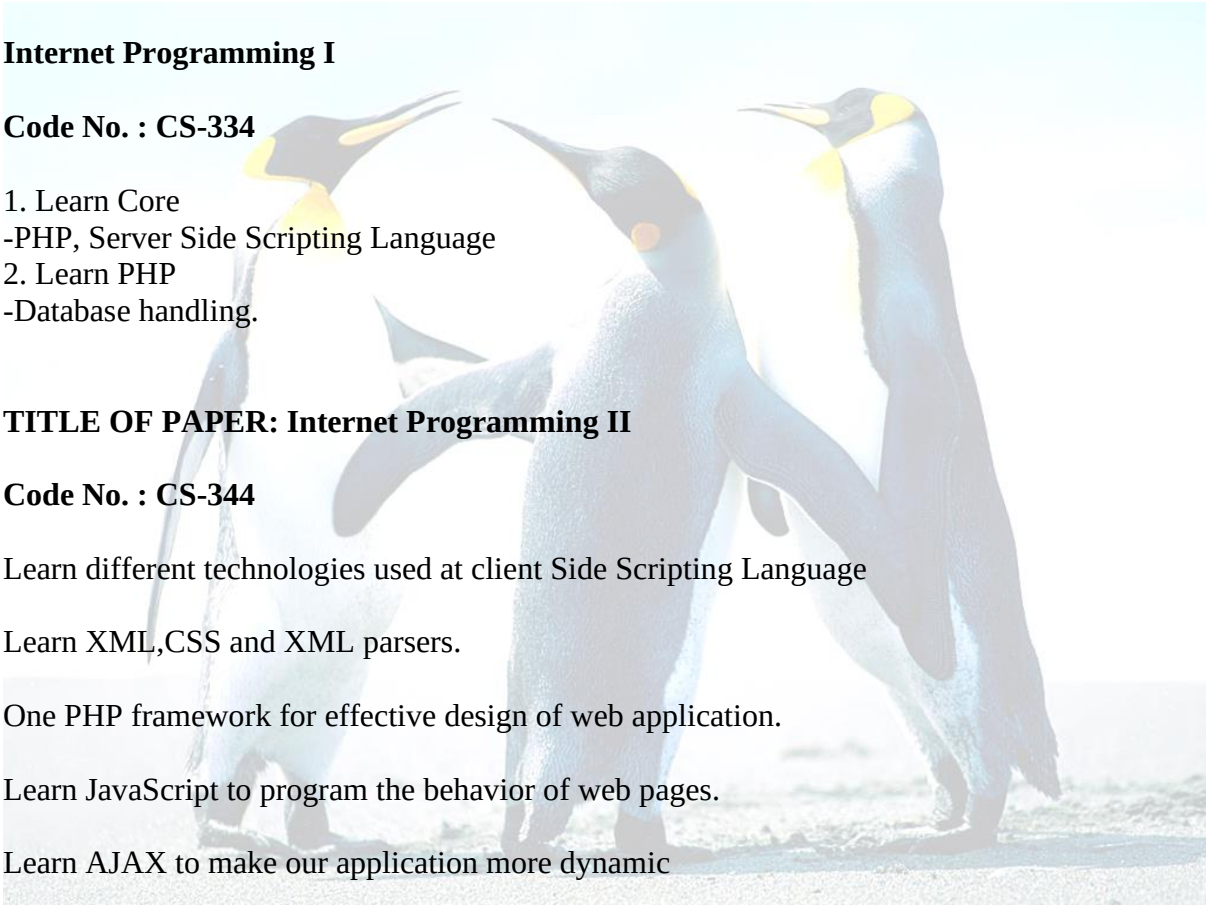
Understand wired and wireless networks, its types, functionality of layer.

Understand importance of network security and cryptography.

Internet Programming I

Code No. : CS-334

1. Learn Core
-PHP, Server Side Scripting Language
2. Learn PHP
-Database handling.



TITLE OF PAPER: Internet Programming II

Code No. : CS-344

Learn different technologies used at client Side Scripting Language

Learn XML,CSS and XML parsers.

One PHP framework for effective design of web application.

Learn JavaScript to program the behavior of web pages.

Learn AJAX to make our application more dynamic

TITLE OF PAPER: Programming in Java-I

Code No. : CS-335

To learn Object Oriented Programming language

To handle abnormal termination of a program using exception handling

To create flat files

To design User Interface using Swing and AWT

TITLE OF PAPER: Programming in Java-II

Code No. : CS-345

To learn database programming using Java

To study web development concept using Servlet and JSP

To develop a game application using multithreading

To learn socket programming concept

TITLE OF PAPER: Object Oriented Software Engineering

Code No. : CS-336

Understanding importance of Object Orientation in Software engineering

Understand the components of Unified Modeling Language

Understand techniques and diagrams related to structural modeling

Understand techniques and diagrams related to behavioral modeling

Understand techniques of Object Oriented analysis, design and testing

TITLE OF PAPER: Computer Graphics

Code No. : CS-346

To study how graphics objects are represented in Computer

To study how graphics system in a computer supports presentation of graphics information

To study how interaction is handled in a graphics system

To study how to manipulate graphics object by applying different transformations

To provide the programmer‘s perspective of working of computer graphics

TITLE OF PAPER: System Programming & Operating System

Code No. : CS-347

Design system programs with minimal features to understand their complexity.

Implement simulations of operating system level procedures.

Lab Course II–Programming in Java

Code No. : CS-348

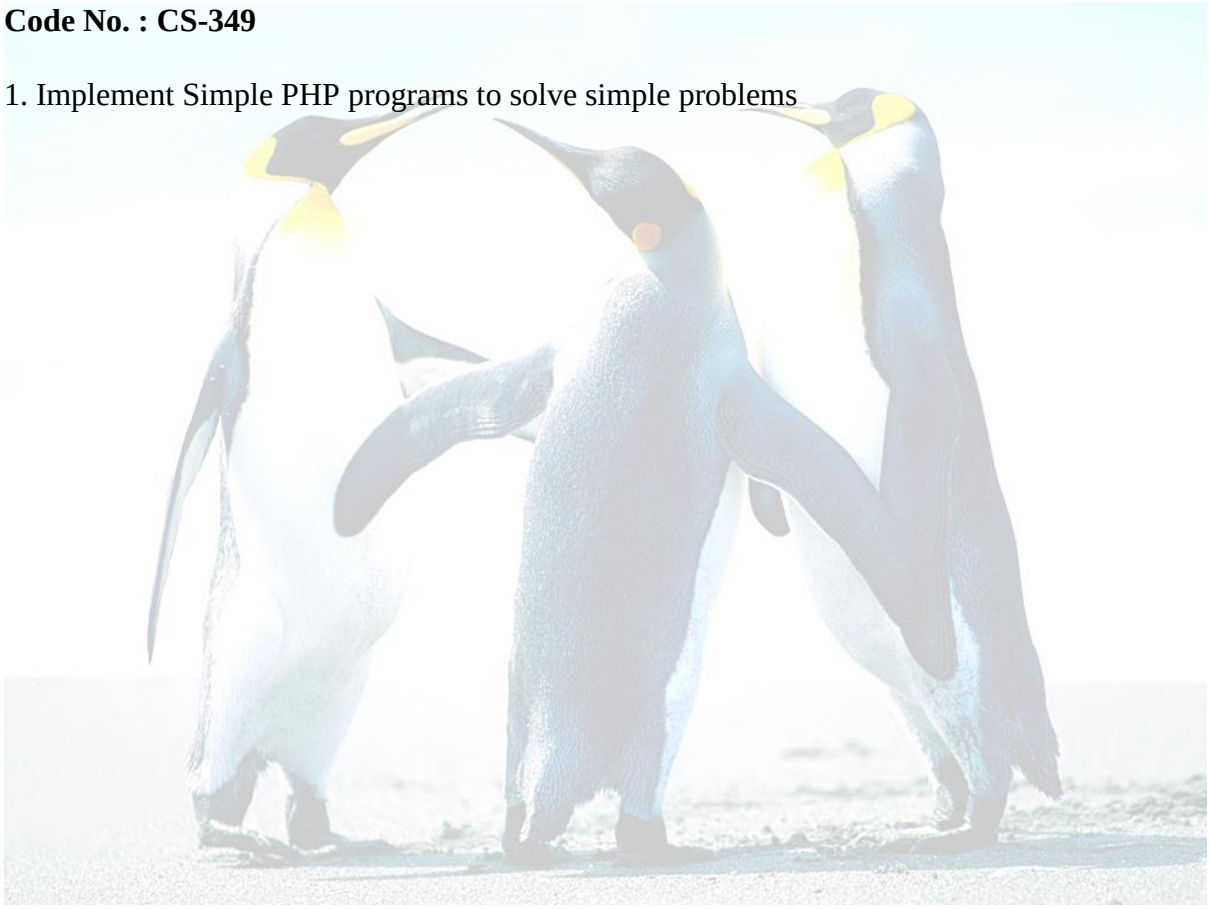
Implement core Java programs to solve simple problems

Implement Client and Server end Java programs

Lab Course III–Programming in PHP & Project

Code No. : CS-349

1. Implement Simple PHP programs to solve simple problems



B. C. A.

Semester I

Subject Name -: Modern Operating Environment and MS Office

Course Code -: 101

Subject Name -: Financial Accounting

Course Code -: 102

To enable the students to acquire sound knowledge of basic concepts of accounting

To impart basic accounting knowledge

To impart the knowledge about recording of transactions and preparation of final accounts

To acquaint the students about accounting software packages

Principles of Programming and Algorithms

Course Code: 103

1. To develop Analytical / Logical Thinking and Problem Solving capabilities

Business Communication

Course Code -: 104

To understand the concept, process and importance of communication.

To develop an integrative approach where reading, writing, presentation skills are used together to enhance the students‘ ability to communicate and write effectively.

To create awareness among students about Methods and Media of communication.

To make students familiar with information technology and improve job seeking skills.

Principles of Management

Course Code -: 105

To provide the fundamental knowledge about working of business organization.

To make students well acquainted with management process , functions and principles.

To make the students familiar with recent trends in management.

Semester II

Subject Name -: Procedure Oriented Programming using C

Course Code -: 201

Subject Name -: Database Management Systems

Course Code -: 202

Subject Name -: Organizational Behavior

Course Code -: 203

To equip the students to understand the impact that individual, group & structures have on their behaviour within the organizations.

To help them enhance and apply the knowledge they have received for the betterment of the organization.

Elements of Statistics

Course Code -: 204

To understand the power of excel spreadsheet in computing summary statistics.

To understand the concept of various measures of central tendency and variation and their importance in business.

To understand the concept of probability, probability distributions and simulations in business world and decision making.

E-Commerce Concepts

Course Code -: 205

Semester III

Subject Name-: RDBMS (Relational Database Management System)

Course Code-: 301

Enables students to understand relational database concepts and transaction management concepts in database system.

Enables student to write PL/SQL programs that use: procedure, function, package, cursor and trigger.

Subject Name -: Data Structure Using C

Course Code -:302

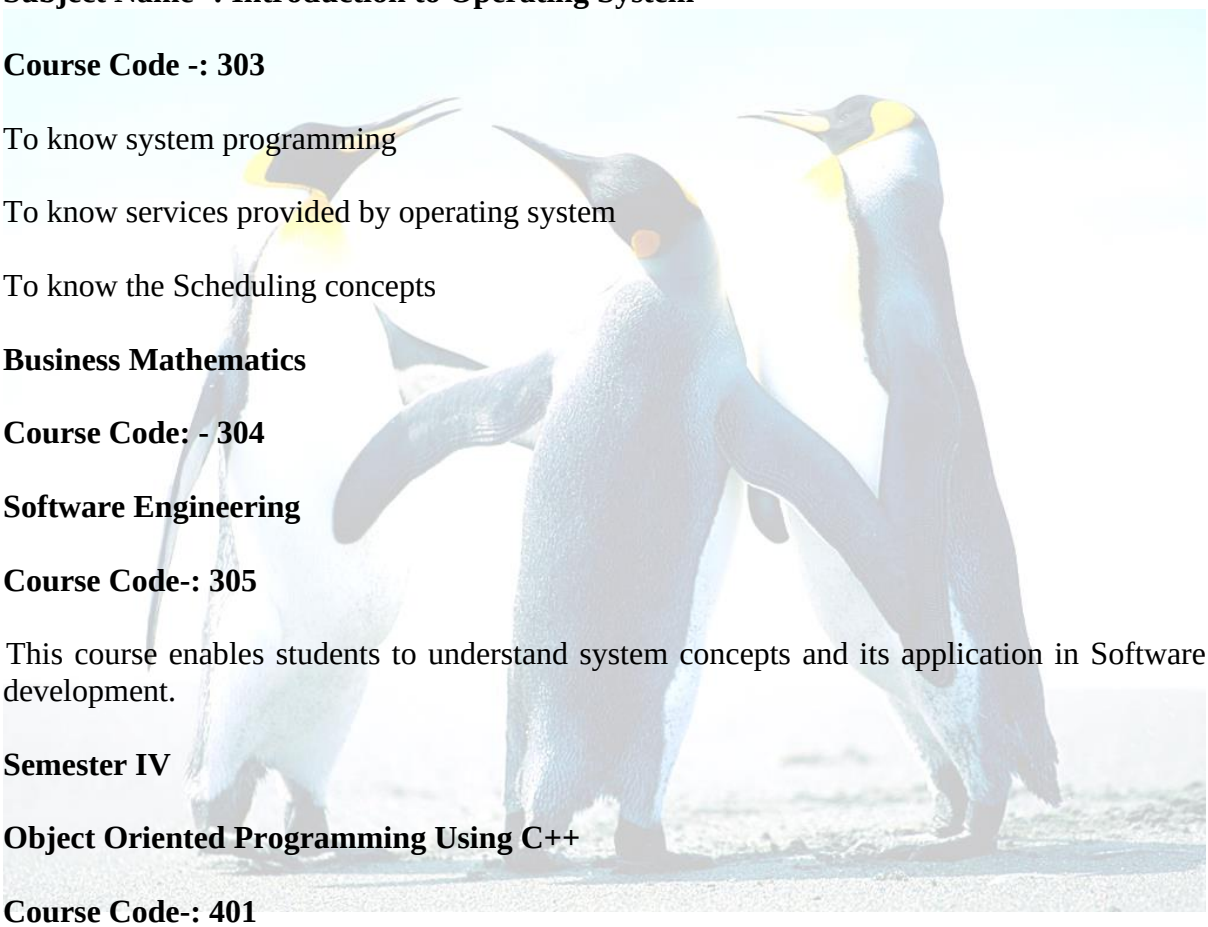
To understand different methods of organizing large amounts of data

To efficiently implement different data structure

To efficiently implement solution for different problems

To get more knowledge on C programming language

Subject Name -: Introduction to Operating System



Course Code -: 303

To know system programming

To know services provided by operating system

To know the Scheduling concepts

Business Mathematics

Course Code: - 304

Software Engineering

Course Code-: 305

1. This course enables students to understand system concepts and its application in Software development.

Semester IV

Object Oriented Programming Using C++

Course Code-: 401

Acquire an understanding of basic object-oriented concepts and the issues involved in effective class design.

Enables student to write C++ programs that use: object-oriented concepts such as information hiding, constructors, destructors, inheritance.

Programming in Visual Basic

Course Code: 402

To learn properties and events, methods of controls and handle events of different controls.

To understand the use of active controls and how to design VB application

To learn connectivity between VB and databases

Computer Networking

Course Code: - 403

To know about computer network.

To understand different topologies used in networking

To learn different types of network.

To understanding the use of connecting device used in network.

Enterprise Resource Planning and Management.

Course Code -:404

To know what is ERP.

To learn different ERP technologies.

Human Resource Management

Course Code: - 405

To acquaint the students with the Human Resource Management its different functions in an organization and the Human Resource Processes that are concerned with planning, motivating and developing suitable employees for the benefit of the organization.

Semester V

Java Programming
Course Code -:501

To learn the basic concept of Java Programming.

To understand how to use programming in day to day applications.

Web Technologies

Course Code: 502

Objectives:

To know & understand concepts of internet programming.

To understand how to develop web based applications using PHP.

Subject Name -: Dot Net Programming

Course Code -: 503

This will introduce visual programming and event driven programming practically.

This will enhance applications development skill of the student.

Subject Name : Object Oriented Software Engineering

Course Code: 504

To Understand concept of system design using UML.

To understand system development through object oriented techniques.

Semester VI

Subject Name: Advanced Web Technologies

Course Code: 601

To know & understand concepts of internet programming.

To understand the concepts of XML and AJAX.

Subject Name : Advanced Java

Course Code : 602

To know the concept of Java Programming.

To understand how to use programming in day to day applications.

To develop programming logic.

Subject Name : Recent Trends in IT

Course Code : 603

To introduce upcoming trends in Information technology.

To study Eco friendly software development.

Software Testing

To know the concept of software testing.

To understand how to test bugs in software.

To develop programming logic.

COURSE OUTCOMES (COs): P.G. Courses

Students pursuing M. A. are expected to have following outcome from each of the Courses taught:

- **M. A. (English)**
  Part-I (**Semester I & II)**

1.1 & 2.1 - *English Literature from 1550 to 1798*

- Introduction to major movements and figures of English Literature through the study of selected literary texts.
- Inculcation of literary sensibility and emotional response to the literary texts and implantation of sense of appreciation of literary texts.
- Exposition to the artistic and innovative use of language employed by the writers.
- Imbibing values and human concern in students through exposure to literary texts.
- Enhancement in literary and linguistic competence of students.

1.2 & 2.2 - *English Literature from 1798 to the Present*

- Introduction to major movements and figures of English Literature through the study of selected literary texts.
- Nurturing literary sensibility and emotional response to the literary texts and implanting sense of appreciation of literary texts.
- Exposition to the artistic and innovative use of language employed by the writers.
- Enrichment of values and development of human concern through study of literary texts.
- Enhancement in literary and linguistic competence of students.

1.3 & 2.3 - *Contemporary Studies in English Language*

- Introduction to the basic tools essential for systematic study of language
- Acquaintance with the basic concepts and issues in linguistics
- Awareness of various sub-disciplines of linguistics
- Initiation into theoretical perspectives and ability to apply the acquired linguistic skills in

real life situations

1.4 & 2.4 - *Literary Criticism and Theory*

- Introduction to the nature, function and relevance of literary criticism and theory
- Overview of various important critical approaches and their tenets
- Encouragement to deal with highly intellectual and radical content and thereby develop their logical thinking and analytical ability
- Development of sensibility and competence for practical application of critical approach to literary texts.

Part-II (Semester III & IV)

3.1 & 4.1 - *Indian Writing in English*

- Introduction to major movements and figures of Indian Literature in English through the study of selected literary texts.
- Creating literary sensibility and emotional response to the literary texts and implant sense of appreciation of literary texts.
- Exposition to the artistic and innovative use of language employed by the writers.
- Instilling values and develop human concern through exposure to literary texts.
- Enhancement in literary and linguistic competence of students.

3.2 & 4.2 – *Applied Linguistics*

- Introduction to the field of Applied Linguistics
- Understanding of how descriptive linguistics can be used practically to explain the behavioural and social use of language, especially with regard to language acquisition, second language acquisition/learning, language teaching methodology
- Help to understand the correlation between the evolution of linguistic theory and the corresponding developments in the field of language learning and teaching
- Ability to understand the relationship between language learning theories, teaching methods, production of course materials and language testing.
- Introduction to the relation between language and culture.
- Skill to understand how linguistic concepts can be applied to the study of literature.

- Familiarity with the tools of language that may be used in translation, textual analysis, etc. Acquaintance with different theoretical and practical aspects of language and literature teaching.

- Introduction to different approaches, methods and techniques of teaching English language and literature.

- Sensitization to the major issues in ELLT in the Indian context.

3.3 & 4.3 - *Cultural Studies*

- Introduction to the newly established field of cultural studies, its concerns and approaches
- Orientation towards interdisciplinary approach and analysis of cultural issues including literature and language
- Consideration to new possibilities of analysis that can relate the learners to their surroundings
- Awareness about the recent developments in humanities and social sciences that cover several issues from philosophical to everyday matter
- Instillation of tolerance, sense of equality and love for humanity in students

3.5 & 4.5 – *Academic Writing and Critical Reading*

- Introduction to the concepts of academic writing and critical reading and illustrate their interconnectedness
- Awareness of how to write formal and academic prose in English.
- Acquaintance of how to present their research findings in a clear and structured manner
- Understanding how to read English texts in their field and discuss them in English
- Introduction to the theories of reading
- Understanding of the shifts in reading and writing practices with the advent of digital technology and the formation of digital literacies
- Acquaintance with the different strategies of reading
- Introduction to reading as a major way of improving both written and oral communication skills

M.A. Marathi Part I

Paper 1: Applied Marathi

- To familiarize students with the movements in contemporary literature

- To interrelate life experiences with literature.
- To choose a specific area of study in Marathi literature.

Paper 2: History of Medieval Literature

- To understand the progress and development of Marathi language.
- To understand various trends and movements in Marathi literature.
- To familiarize students with specific historical events in medieval Maharashtra.

Paper 3: Linguistics

- Explain basic theories in Sociolinguistics.
- Give linguistics description of various aspects of Marathi Language.
- Understand various branches of linguistics.

Paper 4: Dalit Literature

- Theoretical description of Dalit and folk literature.
- Explain salient features of Dalit literature.
- History of Dalit literature in Post-independence India.
- Various branches of Dalit literature and their social relevance.

M.A. Part II

Paper 5: Media and Literature

- Develop the skill for writing for Media.
- Explain the significance of Media and Social life.

Paper 6: Literary Theory and Criticism and Literary Research

- Explain the basic research methodology in Marathi.
- Problems faced by researchers in Marathi.
- Familiarize student with European literary theories.

Paper 7: Special Author

- To identify a major writer for extensive study

- Relate the literary work to the socio-political background of the writer.
- To observe theoretically the writer's contribution to Marathi literature.

Paper 8: Folk Literature in Marathi

- Explain the nature and function of folk literature.
- Explore the connection between folk literature and its social background.
- Explore the ethical and religious contents of folk literature.

M A (Political Science)

- Focus on the actual functioning of the political system
- Studies in detail the political structure both Constitutional and Administrative
- Emphasis on local influences that derive from social stratification of castes and jatis, from language, religion, ethic and economic determinants and critically assesses its impact on the political processes
- Analysis of the major contradictions of the Indian Political Process

M. Com. Part I

- To equip and train Post Graduate students to accept the challenges of Business World by providing opportunities for study and analysis of advanced Commercial and business methods and processes.

- To develop independent logical thinking and facilitate personality development.
- To equip the students for seeking suitable careers in management and entrepreneurship.
- To study by students methods of Data collection and their interpretations.
- To develop among students Communication, Study and Analytical skills.

Semester I

Management Accounting

- To enable students to acquire sound Knowledge of concepts, methods and techniques of management accounting
- To make the students develop competence with their usage in managerial decision making and control.

Strategic Management

- To expose participants to various perspectives and concepts in the field of strategic management.
- To help participants to develop skills for applying this concept to the solution of business problems
- To help students master their analytical tools of strategic management

Legal Framework of Banking.

- To acquaint the students with legal framework in which the Indian banking is working today.
- To make the students aware about the latest developments in the field of banking law.
- To enable the students to understand modern banking practices.
- To enable the students to establish a link between the legal provisions and the practical aspects of banking.

Central Banking

- To study the functions of central bank

- To understand monetary policy and its instruments

M.Com. Part I Semester II

Financial Analysis & Control

- The objective of the course is to enable students to acquire sound knowledge of concepts, methods and techniques of management accounting and to make the students develop competence with their usage in managerial decision making and control.

Industrial Economics

- To study the basic concepts of Industrial Economics.
- To study the significance and problems of Industrialization.
- To study the impact of Industrialization on Indian Economy.

M. Com. Sem. III and IV

- To equip and train Post Graduate students to accept the challenges of Business World by providing opportunities for study and analysis of advanced Commercial and business methods and processes.
- To develop independent logical thinking and facilitate personality development.
- To equip the students for seeking suitable careers in management and entrepreneurship.
- To study by students methods of Data collection and their interpretations.
- To develop among students Communication, Study and Analytical skills.

Semester III

Business Finance

- To enable students to acquire sound knowledge of concepts, nature and structure of business finance.

Research Methodology for Business

- To acquaint the students with the areas of Business Research Activities.
- To enhance capabilities of students to conduct the research in the field of business and social sciences.
- To enable students develop the most appropriate methodology for their research studies.

- To make them familiar with the art of using different research methods and techniques.

Foreign Exchange

- To provide an understanding of various aspects of foreign exchange market.
- To acquaint the students with financing of foreign trade.
- To provide understanding of exchange rate mechanism and factors affecting exchange rates.
- To make students aware of development in foreign exchange market.

International Finance

- To provide understanding of International Financial market.
- To acquaint the students with International monetary system
- To Provide understanding of operations of international Financial Institutions

M.Com. Part II Semester IV

Capital Market and Financial Services

- To enable students to acquire sound knowledge of capital market and financial services.

Industrial Economic Environment

- To study the basic concepts of Industrial Finance.
- To study the effects of New Economic Policy.
- To study the impact of Labour reforms on Industries.

Recent Advances in Banking and Finance in India

- To enable students understand new developments in banking industry.
- To keep the students abreast with the innovative practices introduced in day-to-day banking.
- To undertake Project Work in Banking & Finance