

GOVT DEGREE COLLEGE UTNOOR
COURSE OBJECTIVES/OUT COMES

Objective

English I & II

- Infusing passion for reading and writing
- Filling up the gaps in language abilities left due to formal education
- Creating thorough grounding in all four language abilities - reading, writing, listening and speaking
- Improving their skills in the areas of grammar and vocabulary
- Developing reading and writing skills
- Familiarizing the students with the culture of the region
- Providing value orientation through passages and anecdotes
- Enhancing knowledge of various aspects of language such as pronunciation, grammar, vocabulary, spelling, punctuation, conversation and writing
- Emphasizing the importance of extensive practice

English III & IV

- Addressing the English language needs of students
- Enhancing the critical thinking capabilities
- Emphasizing on the use rather than usage of English; on how the language is used rather than how it should be used
- Exposing the students to a range of real-life contexts where the English language is used
- Enabling the students to communicate information, opinions, ideas and feelings
- Integration of knowledge and skills
- Equipping the students to engage with the practical, emotional, intellectual and creative aspects of language

! & II

- To inculcate respect to mother tongue in general and Telugu in specific among the students.
- To educate the students about Telangana history, culture, language and literature
- To inculcate human values , women empowerment and to improve imagination power among the students.
- To give a perfect outlook about classical, neoclassical, modern, post-modern trends in Telugu literature.
- To motivate to write poetry, stories, literary essays etc.
- To expose the students to the structural aspects, of the language through grammar

Telugu III & IV

- To enlighten the students about the writers of the Telangana region who have been neglected in the past.
- To inculcate moral values and spiritual outlook through literature.
- To expose the students to literature created for the upheaval of the suppressed classes, especially Dalits.
- To explain the glory of the Telangana by texts related to the heroes of Telangana, history of the region and cultural uniqueness of Telangana
- To educate the students about the ill effects of modern culture
- To inculcate passion for reading

To introduce the beauty of prosody in the language in order to make them write poetry metrically

Economics I

The course intends to familiarize the students with the broad contours of Social Sciences, specifically Economics and its methodologies, tools and analysis procedures.

The course also aims to create an enthusiasm among students about different schools of Economic thought and various aspects of social science research, methodology, concepts, tools and various issues.

To familiarize the students, Science-Different branches of science;

To familiarize the students Evolution of a scientific approach Social science;

To disseminate the students Need for interdisciplinary approach;

To publicize the students Objectivity and subjectivity in social Science;

To familiarize the students Limits to objectivity in social science;

Economics II

Core 2: Development and Environmental Economics

To enable the students to understand the theories and strategies of growth and development.

To impart knowledge about the issues relating to sustainable development, Environment protection and pollution control measures.

Economics III

Core 3: Principles of Micro Economics

This Course is designed to provide basic understanding of micro economic concepts, behaviour of economic agent-consumer, producer, and factor owner –price fluctuations in the market.

The module includes in this course deal with the concepts of consumer behaviour, production, market, factor pricing and welfare Economics.

Economics IV

Core 4: Modern banking

Banking has a long history in the world. It has undergone profound changes in recent years especially after the far-reaching banking sector reforms in India and elsewhere.

The present course is designed to acquaint the students with the working of banks and to familiarize them with the basic principles and concepts which are often used in banking literature.

Economics V

Core 5: Micro Economic Analysis

To familiarize with

Theory of costs – traditional theory of costs – short run and long run – real cost – money cost, explicit and implicit cost- sunk cost – total cost – average cost – marginal cost – reasons for the U shape of the average cost curve – short run and long run cost curves – envelope curve – modern theory of cost- short run and long run curves – ‘L’ shaped and ‘saucer’ shaped curves.

Economics VI

Core 6: Public Economics

The Purpose of this course is to give an perceptive about the role of statein

Fostering the economic activities via budget and fiscalpolicies.

This course enables the students to understand the various issues between central and State Government.

Economics VII

Core 7: Quantitative techniques for Economic Analysis

The objective of this course is to equip the students with primary statistical and mathematical tools for analyzing economic problems.

Economics VIII

Core 8: Principles of Macro Economics

This course is designed to make the students aware of the theoretical aspects of Macro Economics.

Economics IX

Core 9: Indian Economy

The objectives of the course are to equip the students with the theoretical, Empirical and policy issues relating to the society, policy and economy of India.

The course, in particular, has been prepared in the background of the globalization process and its diverse ramifications on the knowledge economy.

Economics X

Core 10: Economics of Financial Markets

Financial institutions and markets play a significant role in all the modern economies of the world.

The study of this area is significant especially after the financial sector reforms in most of the countries.

The present course is designed to acquaint the students with the changing role of the financial sector of the economy.

The stake holders are to familiarize with the concepts, the financial institutions and markets.

Economics XI

Core 11: Macro Economic analysis

This course equips the students to understand systems facts and the latest theoretical developments in Macro Economics.

Economics XII

Core 12: Development Issues of the Indian economy

The objectives of the course are to equip the students with the theoretical, empirical and policy issues relating to the society, polity and economy of India.

The course in particular, has been prepared on the background of the globalization process and its diverse ramifications on the knowledge economy.

Economics XIII

Core 13: International Economics

The objectives of this course are to arrive at an understanding of theories of international trade and to examine the impact of the trade policies on the dynamic gains.

Political Science I

Understanding political theory.

To understand the political theory, evolution, nature and significance.

To discuss contemporary debates in political theory.

To make differentiate between the normative and empirical approaches.

To discuss what is Political?

What is state? Meaning, definitions

To discuss the Origin of state theories, divine origin, social contract and historical and evolution.

To discuss the importance of power and authority in politics.

To discuss the authoritative allocation of values.

To discuss sovereignty, features and various kinds of sovereignty.

To discuss contemporary challenges to the state sovereignty.

To discuss political values and theoretical perspectives.

To discuss different views of liberty like liberal, Marxist and feminist.

To discuss different views of equality like liberal, Marxist and feminist.

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To discuss Political Ideologies like Liberalism, Nationalism and Multiculturalism

To discuss Political Institutions and Functions

To the organs of government Legislature, Executive and Judiciary

To discuss the role of Political Parties, Pressure Groups, Media in politics

Political Science II

Western Political Thought

To demonstrate knowledge of key thinkers and concepts

To understand the nature, methods and significance of political thought.

To analyse the theory of ancient & medieval political thought of Greek and India.

To appreciate the ideas of them in context of classification of government, law and revolutions and slavery.

To understand the relationship between religion and politics in early modern western political thought

To acquire knowledge about modern political thinkers and their view on state craft.

To compare with the social contractualists thoughts of Hobbes, lock, and Rousseau and their view regarding state, government and general will.

To appreciate the concept of liberty, representative government.,

To analyse the Marxist philosophy in making a better society.

To thoroughly compare the democratic revolution and creation of civil society.

To appreciate the various social and political ideas of Indian political thinker

To inculcate the spirit of *ahimsa*, *satyagraha* , through Gandhi ideology

To criticizes the causes for the theory of caste system in India and their impact

Political Science III

Indian Government and politics

To understand the philosophy of Indian constitutions.

To identify the causes, impact of British colonial rule.

- To appreciate the various phases of Indian national movement.
- To create value in young youth regarding the patriotism.
- To understand the various Government of Indian acts their provision and reforms.
- To know the salient features in making of Indian constitution
- To appreciate the socio-economic political factors which lead to the freedom struggle.
- To understand the constitutional orderings and institutional arrangement.
- To appreciate the fundamental rights and duties and the directive principle of state policy.
- To evaluate the evolution, functioning and consequences of political parties in India.
- To identify how electoral rules and procedure in India effect election outcomes.

Political Science IV

Indian Government and Politics

- To discuss about Union Government
- To discuss about the President: Election; Powers and Functions.
- To discuss the Parliament: Composition; Powers and Functions.
- To discuss the Prime Minister and Council of Ministers.
- To discuss the Supreme Court: Composition; Powers and Functions Judicial Review; Judicial Activism.
- Critically evaluating the Indian Party system – its development and looking at the ideology of dominant national parties
- Evaluating the role of various forces on Indian politics: religion; language; caste; tribe; regionalism; business; working class and peasants
- Evaluating the Electoral Process in India with focus on the Election Commission: Composition, Functions and Role
- Investigating the New Social Movements since the 1970s: environmental movements, women's movement and human rights movement

Political Science V

Paper V: Political thought

- To demonstrate knowledge of key thinkers and concepts
- To understand the nature, methods and significance of political thought.
- To analyse the theory of ancient & medieval political thought of Greek and India.
- To appreciate the ideas of them in context of classification of government, law and revolutions and slavery
- To understand the relationship between religion and politics in early modern western political thought.
- To acquire knowledge about modern political thinkers and their view on state craft.
- To compare with the social contractualists thoughts of Hobbes, lock, and Rousseau and their view regarding state, government and general will.
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- To criticize the causes for the theory of caste system in India and their impact

Political Science VI

Paper –VI: Political Thought

- To discuss GWF Hegel- Dialectics and Theory of State &TH Green- Rights and Political

Obligation.

To discuss Marxist Philosophy

To discuss Karl Marx: Dialectical and Historical Materialism.

To discuss neo Marxist philosophy

To discuss Mao Ze dong: On Contradictions, New Democratic Revolution. Antonio Gramsci: Hegemony and Civil Society.

To discuss ancient Indian Political Thought of Buddha- Social and Political Ideas; Dhamma and Sangha. Basava - Social Ideas. Jyotirao Phule- Critique of Brahmanism, Social Revolution.

To discuss Indian Nationalist Political Thought

Mohandas Karamchand Gandhi - Ahimsa, Satyagraha. Jawaharlal Nehru - Democratic Socialism, Secularism. Dr. B.R. Ambedkar- Theory of Caste, Annihilation of Caste and State Socialism.

Political Science VII

International Relations

International Relations

To understand the evolution, scope and significance of international relations and the rise of sovereign state

To analyze the history of international relations through the causes and phases of colonialism.

To know the impact of first world war and second world war and its causes and consequences

To criticize the various ideologies which lead to the destruction of world.

To appreciate the post war developments through the emergence of third world.

To understand the concept of power, national, regional, global and peace security

To acquaint with the international organizations and their member nations.

To understand the international political economy.

To analyse the international security Arms Race. Arms control and Disarmament.

To understand the emerging area in international relations.

To appreciate the foreign policy their determinants features & its relevance.

To critically analyse the Indian's bilateral relations with major power and neighboring countries.

To identify various issues and challenges towards international relations

To learn about issues of diversity and internationalism

Political Science VIII

Paper –VIII: International Relations

Understanding the nature and developments in national and international politics

Analyzing the Indian constitutional provisions, major legislations and reforms.

Critical evaluation of social, economic and political variables for a proper understanding of the plurality of Indian society

Building overall consciousness regarding national political history, international relations and present Indian and Western political thinkers.

Encouraging a comprehensive, comparative understanding of specific world constitutions such as UK, USA, China, Russia, Switzerland and France.

Developing knowledge of administrative studies with special reference to Indian administrative structures and practices.

Examining India's foreign relations with her neighbours and great powers.

Use of case study method for analysing the working of important international and

regional organizations like UN, EU, ASEAN etc.

History

Understand background of our religion, administration and soon.
Understand the present existing social, political, religious, economic conditions.
History installs the feeling of patriotism in the hearts of the people.
The study of history imports moral education.
Analyze relationship between past and present.
Develop practical skills such as to draw maps, Chats.
Develop interest in activities such as collection of old coins, visiting an client
historical movements etc.

FUNDAMENTALS OF INFORMATION TECHNOLOGY

To acquire knowledge in information technology and its applications in the area of business.
Companies rely on IT for fast communication's, data processing and market intelligence.
It plays an integral role in every industry, helping companies improve business processes , achieve and maintain a competitive advantage in the market place.

FINANCIAL ACCOUNTING

To acquire conceptual knowledge of basics of accounting and preparation of final accounts of sole trader
The process by which an organization's revenue, receivables, and expenses are collected, measured, recorded and finally reported
Across financial accounting, companies have two basic ways they can structure their business's accounting

BUSINESS ORGANISATION AND MANAGEMENT

To acquaint the students with the basics of Commerce and Business concepts and functions, forms of Business Organization and functions of Management
The organisational objectives of management refer to the main objectives required to fulfill the economic goals of any business organisation
Every organisation is a part of the society. Thus it has certain social obligations to fulfill.

BUSINESS ECONOMICS

To acquire knowledge for application of economic principles and tools in business practices.
The Objectives of Business are its driving force. These are the factors that keep the business running.
Let's learn further what the Objectives of Business are and how they are classified.
Objectives are needed in every area where performance and results directly affect the survival and prosperity of a business.
Business is a set of activities undertaken with the prospect of sale for the purpose of earning a profit.
Profit is the extra income over the expenses.

FINANCIAL ACCOUNTING-II

To acquire accounting knowledge of bills of exchange and other business accounting methods
The American Institute of Certified Public Accountants (AICPA) is an industry leading organization in the area of financial accounting.
In the United States, financial reporting standards are set forth by the FASB and required under GAAP for publicly traded companies.

PRINCIPLES OF INSURANCE

To make students to learn the Principles of Insurance

Insurance companies have an objective of using a process called underwriting to examine every insurance applicant

Many types of insurance have qualifiers that affect eligibility and premiums.

Some types of health insurance are provided to employees as a benefit of employment, and other forms of insurance are available at reduced rates for people in certain income or age ranges. Health insurance typically covers some, but not necessarily all

BUSINESS STATISTICS I

To inculcate analytical and computational ability among the students.

Demonstrate knowledge of probability and the standard statistical distributions.

estimators

Demonstrate understanding of how to design experiments and surveys for efficiency.

INCOME TAX

To acquire conceptual and legal knowledge about Income Tax provisions relating to computation of Income from different heads with reference to an Individual Assessee

The primary purpose of taxation is to raise revenue to meet huge public expenditure

One of the important objectives of taxation is economic development. Economic development of any country is largely conditioned by the growth of capital formation

Second objective is the full employment. Since the level of employment depends on effective demand, a country desirous of achieving the goal of full employment must cut down the rate of taxes

ADVANCED ACCOUNTING

To acquire accounting knowledge of partnership firms and joint stock companies

Objectives of accounting in any business are; systematically record transactions, sort and analyzing them, prepare financial statements, assessing the financial position, and aid in decision making with financial data and information about the business

The primary object of accounting is to identify the financial transactions and to record these systematically in the books of accounts

Every business concern is interested to know its operating results at the end of a particular period.

PRACTICE OF LIFE INSURANCE

To make the students understand life insurance market in India.

To discuss the issues related to risk management in view of life insurance.

The objective of insurance is to financially guard against unpredictable life occurrences.

In short when you buy an insurance policy you make monthly payment's, called premium to things like accident, illness or even death.

BUSINESS STATISTICS II

To inculcate analytical and computational ability among the students.

Enable students for using the computer program MS Excel, apply basic statistical techniques and methods for grouping, tabular and graphical display, analysis and interpretation of statistical data.

Explain basic statistical concepts such as statistical collection, species characteristics, statistical series, tabular and graphical representation of data, measures of central tendency, dispersion and asymmetry, correlation and regression analysis, time series analysis

Independently calculate basic statistical parameters (mean, measures of dispersion, correlation coefficient, indexes)

COMPUTERIZED ACCOUNTING

To make the students to acquire the knowledge of computer software.

It ensures efficient performance in accounting records.

Greater accuracy computerised Accounting make sure accuracy in accounting records and statements.

It prevents clerical errors and omissions in records.

Relieve monotony: Computerised accounting reduces the monotony of doing repetitive Accounting jobs.

BUSINESS LAWS

To understand basics of contract act, sales of goods act, IPRs and legal provisions applicable for establishment, management and winding up of companies in India.

Establishing standards identifies what types of behavior are and are not accepted in society. For example, damage to person or property is considered a crime because it is not tolerated by society

Businesses large and small must comply with the same legal regulations. Often, this involves the expertise of a specialist who can help entrepreneurs succeed in an area such as law or finance.

COST ACCOUNTING

To make the students acquire the knowledge of cost accounting methods

Cost Accounting refers to the classifying, recording and appropriate allocation of expenditure for the purpose of determining the costs of products or services

The objective of the cost accounting is to determine the methods by which expenditure on materials, wages and overhead are recorded, classified and allocated.

BANKING THEORY AND PRACTICE

To acquire knowledge of working of Indian Banking system

Students will get exposure for banking operations Students will be exposed to various dimensions of day to day operations. Students will have practical applications of banking aspects in real life situations

Banking Sector Reforms: Liberalization of banking sector, Narsimham Committee-1st and 2nd generation reforms, Capital adequacy: introduction, Basel II norms (new capital adequacy frame work)

AUDITING

To understand meaning and elements of auditing and gain knowledge for execution of audit.

The objective of an audit is to express an opinion on financial statements

To give the opinion about the financial statements, the auditor examines the financial statements to satisfy himself about the truth and fairness of the financial position and operating results of the enterprise

COMMERCE LAB

To become familiar with various business documents and to acquire practical knowledge , which improve

To equip students with the knowledge regarding filling the various application forms

COMPANY LAW

To understand legal provisions applicable for establishment, management and winding up of companies in India as per Companies Act 2013.

In view of the important developments that have taken place in the corporate sector, the course is designed to understand the formation, management and other activities of the companies.

This course aims to impart the students, the corporate management, control, possible abuses, the remedies and government regulation of corporate business and winding up of companies.

MANAGERIAL ACCOUNTING

To acquire Managerial Accounting decision-making techniques and reporting methods.

Management accounting also is known as managerial accounting and can be defined as a process of providing financial information and resources to the managers in decision making.

Financial accounting is the recording and presentation of information for the benefit of the various stakeholders of an organization

FINANCIAL INSTITUTIONS AND MARKETS

To familiarize with various Financial Institutions and Markets

Financial institutions, such as banks, credit unions, stockbrokers, finance and insurance companies, often have a business plan with a set list of goals and objectives

Many financial institutions manage people's personal money. Since fees, investments, insurance and other services may cost the customer money, a financial institution may have an objective to provide services and savings plans that will save the customer money

ZOOLOGY

Animal diversity- Invertebrates

To inspire the knowledge about diverse characters of invertebrates

To Know about general features and characters of Protozoa, Porifera and other invertebrates with clear exam

To study the characters and organisation of different systems of invertebrates and life cycles

Ecology, Zoogeography and Animal Behavior

To enable the students with basic idea of Ecology and different Ecosystem

To learn about the biogeochemical cycles and their role in nature

To develop knowledge about the species concept, Population dynamics, food chains, ecological pyramid

To inculcate the knowledge about the biodiversity, its conservation strategies and impact human intervention

Animal Diversity- Vertebrates and Developmental Biology

To learn about general characters of vertebrates which includes the urochordata, Cyclostomata, Amphibia,

To provide basic knowledge of type studies of different vertebrates and applications

To understand idea of Developmental biology- Its evolution

Cell Biology, Genetics & Evolution

To understand the structure and functions of the cell and organelles and their prominent role in metabolism

Understanding different processes like cell cycle, cell signaling and its role in signal transduction

To be able to know the process of evolution of different organisms

To clarify the concepts of universe, theories of life cycle

Physiology and Biochemistry

To understand various processes of metabolic pathways

To acquire knowledge detoxification and its mechanism

To understand fundamental concepts of biochemistry with reference to the biomolecules and their role in s

Entomology

To gain the basic understanding and scope, importance of different insects in our univers

To obtain knowledge regarding the external and internal morphological aspects

To acquire concepts about vectors and pests

Gain the knowledge pertaining to beneficial and harmful insects and their role ecology

Immunology and biotechnology

To describe about the basic understanding of immunology and its vital role in daily life

To know the different applications of animal biotechnology with regard to the welfare of animal, human, a

To acquire the understanding of different techniques and their applications in various fields like diagnosis

Public health and hygiene

To understand importance of health and hygiene and its role

To aware the students towards the various communicable diseases and preventive methodologies

Know the knowledge about prophylaxis measurement to be addressed to prevent the diseases

MATHEMATICS

Differential calculus

The course is aimed at exposing the students to some basic notations in differential calculus

Students learnt and realise wide ranging applications of differential calculus

Students able to learn the different theories and their applications

Differential Equations

To introduce the students to the techniques of solving differential equations

Train the students of differential equations in solving problems of engineering and science

The students will be equipped with various tools to solve few types differential equations that arise in seve

Real analysis

To expose the students to the foundations of analysis which will be useful in understanding various physic

The students able to understand applicability real analysis.

Algebra

To learn the basic concepts of algebraic structures like groups, rings etc

To equip to recognise algebraic structures that arise in matrices algebra, linear algebra that will be able to ap

Linear algebra

The students are exposed to various concepts of like vector spaces, bases, dimension, eigen values etc

Students learn interdisciplinary applications of linear algebra

Solid Geometry

Students learn to describe surfaces by using analytical geometry

To understanding interplay between algebra and geometry

Numerical analysis

Students able to understand methods of numerical analysis and their applications

To learn about the solving the problems of algebra and calculus

Vector Calculus

To understand Concept like gradient, Divergence, Curl and physical relevance

To know vector calculus applications to address problems of physics

BOTANY

Microbial diversity of lower plants

Students are able to understand the diversity among algae

know th systematic, morphology and structure of algae

Understand the biodiversity of fungi

Understand the economic importance of fungi

Bryophytes, Pteridophytes, Gymnosperms and Palaeobotany

Understand the morpho diversity of bryophytes, Pteridophytes and gymnosperms

Know the evolution of these plants

Know the reproduction characters of the plant

Know the scope of Palaeobotany, types of fossils and its role in global economy

Taxonomy of Angiosperms and Medicinal Botany

To know the systemic and taxonomy of different classes, family and genera of angiosperms

To gain importance and role of plants in human welfare

Utility of plant resources

Plant anatomy, Embryology and Palaeontology

To understand the scope and importance of anatomy
Know the fertilisation, endosperm and embryology
Know tissue systems
To know about pollen types, different allergies and usage of forensics

Cell Biology and Genetics

Students able understand the eukaryotic cell cycle, mitotic, meiotic cell division
Understands the structure and organisation of cell membrane and their models
Understand and Mendelian and non Mendelian genetics
To study the phenomenon of dominance, laws of genetics, genetic interactions

Ecology and biodiversity

To know about biotic and abiotic factors
Awareness about ecological niche, pyramids
Understand about food chain and webs
To know the importance of flora and fauna of the earth
Able to know red data book
Conservation of biodiversity

Tissue culture and biotechnology

Understand principle and basic protocols for plant tissue culture
Understand the fundamentals r-DNA Technology
Know about Genetic engineering

Plant Physiology

Students able to know importance and scope of plant physiology
Understand the processes of photosynthesis, respiration in higher plants
Understand plant movements

CHEMISTRY

Chemistry-I

Students learn chemical bonding and related theories like Fajans rule, polarity, VSEPR theory, Molecular orbital
To learn about the p-block elements emphasising on structures of diborane and higher boranes, Carbides and
To make an understand of structural theory in organic chemistry like bond polarisation, applications of ind
Acyclic hydrocarbons of alkanes, alkenes and alkynes preparation and chemical properties and aromatic hydrocarbons
To know about basic concepts of physical chemistry of atomic structure and elementary quantum mechanics

Chemistry-II

To learn about inorganic chemistry concepts like p-block elements of oxides, oxyacids inter halogens and p
Zero group elements and d-block elements properties and applications
Obtain knowledge about halogen compounds, alcohols, phenols, ethers and carbonyl compounds
To gain knowledge about theory of quantitative analysis, stereochemistry and colligative properties

Chemistry-III

Students learn inorganic chemistry of f block elements and co-ordination compounds
In organic chemistry students able to learn carboxylic acids and derivatives, nitro hydrocarbons and amines
In physical chemistry students acquire the subject of thermodynamics and its laws, applications
General chemistry gives knowledge about evaluation of analytical data, carbon ions and phase rule

Chemistry-IV

In inorganic chemistry students learn CFT, HSAB and applications of coordination compounds and bioinorganic
In organic chemistry carbohydrates, amino acids, proteins and heterocyclic compounds knowledge is obtained

In Physical chemistry knowledge is obtained about photochemical laws, applications

In General chemistry theories of bonding in metals, carbene ion, colloids and surface chemistry and its :

Chemistry-V

The students are able to gain the subject of coordination compounds and its applications

Boranes and carboranes properties and applications

In organic chemistry amines, cyanides and isocyanides, heterocyclic compounds properties and its applications

In Physical chemistry chemical kinetics, its laws and various applications are studied

Molecular spectroscopy techniques and Photochemistry tools handling, results observation and analysis is

Chemistry-VI

Students are able to gain the knowledge about Chromatography techniques and methodology

To know about applications of various chromatographic techniques

Understand the colorimetry, spectrophotometry, IR spectrophotometer and other techniques

In inorganic chemistry inorganic reaction mechanism, bio inorganic chemistry, HSAB analysis is learnt by

In organic chemistry carbohydrates, amino acids and proteins awareness is obtained

In thermodynamics the laws and applications awareness is created among the students

In general chemistry students are able to learn Mass spectrometry and entropy

To acquire knowledge of introduction and basic concepts of medicinal chemistry

To know about enzymes properties, mechanism of action and types of inhibition

Importance of drugs, its synthesis, mechanism of action and applications in treatment of diseases

To know about molecular messengers and health promoting drugs and vitamins

PHYSICS

Mechanics

To state and prove the Stokes' Gauss laws of vector analysis

Applications of variable mass system and collisions

To state laws of Kepler laws of planetary motion and centripetal forces

To understand the concept of "special theory of relativity"

Waves and Oscillations

To understand the dynamics of different types of pendulum and to determine 'g'

To determine the factors of damped and forced oscillations

To determine resultant frequency of vibration in strings

To determine the resultant frequency of vibrations in bars

Thermal Physics

Students will demonstrate knowledge based competencies in the fields of thermodynamics and statistical physics

Understand the functioning and efficiency of Carnot's engine and T-S diagram

Understand the energy distribution of radiation by various laws like Wien's law, Rayleigh-Jeans law and Planck's law

Explain the effects of Maxwell equations of Thermodynamics

Optics

To have developed the idea of interference, diffraction and polarisation and to solve problems related to the same

Understand about optical fibres and its applications

Study about basics of Aberrations in lenses

Electromagnetism

To understand basic concept of electricity and magnetism

To understand the concept of Biot-Savart law and its applications

To understand the concept of electromagnetic induction, self induction of solenoid, mutual induction of coils

To understand the concept of Electromagnetic waves

To understand the theory and applications of Maxwell equations

Solid state physics

Develop a clear concept of the crystal classes and symmetries and to understand the relationship between them

Create understanding of electronic and vibrational properties of solid state systems

Earn the basics of the magnetic behaviour of various materials

Gain basic knowledge of superconductivity

Modern Physics

Understand the matter interaction with charge particle and radiations

Identify the problems and applications of nuclear physics

Explain the effects of electronic and magnetic field on the atomic spectrum

Basic electronics

Describe the spectra of single and multiple electron atoms including fine and hyperfine structure of hydrogen

To impart knowledge of basic electronics in a broader context to the students

Gain basic knowledge of digital electronics

To clarify the concepts of semi conductors p-n junctions and fermi level

To develop the understanding of rectifiers, transistors and transistor action along with their application as a diode

Programming in C

Acquire the knowledge of overview of programming languages and problem solving techniques.

Develop programming skills with the understanding of the fundamentals and basics of C and C++ Language

To learn the complete information about arrays, strings, functions, structures, and pointers.

Provide complete understanding of classes and objects, constructors and destructors, and control structures

How to use the memory management concepts.

Complete understanding about the issues regarding file organization and the implementation of file systems

Programming in C++

To understand how C++ improves C with object-oriented features

To learn how to write inline functions for efficiency and performance

To learn the syntax and semantics of the C++ programming language

Acquire the how to design C++ classes for code reuse

To learn how to implement copy constructors and class member functions

To understand the concept of data abstraction and encapsulation

To learn how to overload functions and operators in C++

To learn how containment and inheritance promote code reuse in C++

To learn how inheritance and virtual functions implement dynamic binding with polymorphism

How to design and implement generic classes with C++ templates

To learn how to use exception handling in C++ programs

Data structures

To impart the basic concepts of data structures and algorithms

To understand concepts about searching and sorting techniques

To understand basic concepts about stacks, queues, lists, trees and graphs

To understand about writing algorithms and step by step approach in solving problems with the help of

Real time experience about the how to work ATMS and Printers

Database management system

The objective of the course is to present an introduction to database management systems, with an emphasis

Describe the fundamental elements of relational database management systems and Relational database management systems
Explain the basic concepts of relational data model, entity-relationship model, relational database design, and relational database design

Design ER-models to represent simple database application scenarios

Convert the ER-model to relational tables, populate relational database and formulate SQL queries on data
Improve the database design by normalization

Familiar with basic database storage structures and access techniques: file and page organizations, indexing, and recovery

Programming in Java

To learn how to implement object-oriented designs with Java

To identify Java language components and how they work together in applications

To design and program stand-alone Java applications

To learn how to design a graphical user interface (GUI) with Java Swing

To understand how to use Java APIs for program development

To learn how to extend Java classes with inheritance and dynamic binding

To learn how to use exception handling in Java applications

To understand how to design GUI components with the Java Swing API

To learn and design Java generics and how to use the Java Collections API

To understand how to design applications with threads in Java

Operating systems

To learn the fundamentals of Operating Systems

To learn the mechanisms of OS to handle processes and threads and their communication

To learn the mechanisms involved in memory management in contemporary OS

To gain knowledge on distributed operating system concepts that includes architecture, Mutual exclusion, and synchronization

To know the components and management aspects of concurrency management

To learn programmatically to implement simple OS mechanisms

Computer networks

To learn the Data and Signals, Digital and Analog Transmission, Bandwidth Utilization and Transmission

To learn the Data Link Control, Multiple Access and Local Area Networks (LANs) logical Addressing, Internet

To learn the Address Mapping and Internetworking

To learn the Introduction and Network Models

Webtechnologies

The focus in this course is on the World Wide Web as a platform for interactive applications, content publishing, and search engines

The development of web-based applications requires knowledge about the underlying technology and the fundamental concepts of web development

In this course you will learn about the HTTP communication protocol, the markup languages HTML, XHTML and XML, the CSS and XSLT standards for formatting and transforming web content,

interactive graphics and multimedia content on the web, client-side programming using JavaScript

Practical knowledge about the web

Paper II **MANAGEMENT INFORMATION SYSTEM:- {MIS} 2**

To equip the students with finer nuances of MIS

The main goals of an MIS are to help executives of an organization make decisions, to advance the organization strategy and to implement the organizational structural dynamics of the enterprise for the purpose of managing the organization in a better way for a competitive advantage.

Paper III **PRINCIPLES OF INSURANCE {POI}:- 3 Semester**

To provide a basic understanding of the insurance mechanism.

To identify the relationship between insurers and their customers and the importance of insurance contract.

To give an overview of major life insurance and general insurance products.

Paper IV **PRACTICE OF LIFE INSURANCE {POLI}:- 4 Semester**

To make the students understand life insurance market in India.

To discuss the issues related to risk management in view of life insurance.

The objective of insurance is to financially guard against unpredictable life events.

In short when you buy an insurance policy you make monthly payments, called premiums, to things like accident, illness or even death.

FINANCIAL STATEMENT ANALYSIS:- {FSA} 4 Semester

To acquire knowledge and techniques of financial statements analysis.

The primary objective of FSA is to understand and diagnose the information contained in a financial statement with a view to judge the profitability and financial soundness of a firm, and to make forecast about future prospects of the firm.

Paper V **PRACTICE OF GENERAL INSURANCE:- {POGI} 5 Semester**

To carry on the general insurance business other than life, such as accident life and

To aid and achieve the subsidiaries to conduct the insurance business.

To help the conduct of investment strategies of the subsidiaries in an efficient production manner.

COMPUTERIZED ACCOUNTING:- 5 semester

To make the students to acquire the knowledge of computer software.

It ensures efficient performance in accounting records.

Greater accuracy computerised Accounting make sure accuracy in accounting records statements.

It prevents clerical errors and omissions in records.

Relieve monotony: Computerised accounting reduces the monotony of doing repetitive Accounting jobs.

ACCOUNTING STANDARDS {AS}:- 5 semester

To make the students acquire the knowledge of previous and application of Accounting standards.

To provide a standard for the diverse accounting policies and principles.

To put an end to the non-comparability of financial statements.

To provide standards which are transparent for others.

COMMERCE LAB :- 6 semester

To become familiar with various business documents and acquire practical knowledge which improve overall skill & Talent.

REGULATIONS OF INSURANCE BUSINESS {ROIB}:- 6 Semester

To equip students with the knowledge regarding insurance business regulations.

FINANCIAL ACCOUNTING (1 Semester)

To acquire conceptual knowledge of basics of accounting and preparation of accounts of sole trader

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BUSINESS ORGANISATION AND MANAGEME

*To acquaint the students with the basics of Commerce and Business conc
functions, forms of Business Organization and functions of Management*

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