

JVR GOVT COLLEGE, SATHUPALLY, KHAMMAM DIST
DEPARTMENT OF ENGLISH

<p style="text-align: center;">Programme outcome</p>	<ol style="list-style-type: none"> 1. Developing intellectual, personal and professional abilities through effective communicative skills. 2. Ensuring high standard behavioral attitude through literary subjects and shaping the students socially responsible citizens. 3. To enhance employability of the students by developing their linguistic competence and communicative skills. 4. To enable to students understand the cultural disparities of the world. 5. To familiarize students with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English
<p style="text-align: center;">Programme specific outcome</p>	<ol style="list-style-type: none"> 1. On successful completion of the program, the students will be accurate both in oral and written communication as they will be strong in grammar and its usage. 2. They can express a thorough command of English and its linguistic structures. 3. They can apply a critical frame work to analyze the linguistic, cultural and historical backgrounds of texts written in English. 4. The students will be familiar with conventions of diverse textual genres including fiction, non-fiction, poetry, autobiography, biography, journals, plays etc.
<p style="text-align: center;">Course outcome</p>	<ol style="list-style-type: none"> 1. To expose students to the best examples of prose and poetry in English so that they can realize the beauty and communicative power of English. 2. To develop the ability to appreciate ideas and think critically. 3. To acquaint the students with minor forms of literature and language in English and help them to appreciate the creative use of language. 4. To introduce the students the basics of the pronunciation of English so that they can pronounce and speak English in accurate way. 5. To develop interest among the students to

	<p>appreciate and analyze drama independently.</p> <ol style="list-style-type: none"> 6. To introduce some advanced units of language so that they become aware of the technical aspects and their practical usage. 7. To improve communication skills so as to connect to the world. 8. To enable the students understand the importance of lingua franca of the world. 9. To make the students get ready for the careers. 10.To improve self confidence among the students with accuracy in communication.
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DEPARTMENT OF COMMERCE

B.COM PROGRAMME OUT COMES

After completing the programme, the B.Com graduate will be able to:

- PO 1** : Develop wide range of business ,legal' statistical, financial ,entrepreneurial and analytical expertise.
 - PO 2** : Apply the managerial skills, abilities sand knowledge in a business organization and be capable of maintaining business accounts.
 - PO 3** : Enhance the capability of decision making at personal and professional levels.
 - PO 4** : Makes students industry ready and develop various managerial and accounting skills for better professional opportunities.
 - PO 5** : Understand how to operate a business successfully in a continuously changing environment.
 - PO 6** : Develop an entrepreneurship spirit and participate effectively in social, commercial issues ultimately leading to notional development.
- examinations: Thus ,after completing their graduation learners develop a thorough understanding the fundamentals in commerce and finance.

DEPARTMENT OF COMMERCE
PROGRAM SPECIFIC OUT COMES

PSO 1: Learners venture into managerial positions, Accounting areas, Banking sectors, Auditing, Company secretary ship , Teaching, Professor ,Stock Agents, Government Employment etc.

PSO2: Enables learners to prove themselves in different Professional examinations like CA , CS, ICWA,CMA and other diploma courses such as Tally ERP 9 and MS –Excel.

POS3:Gain through systematic and subject skills within various disciplines of commerce' business, business law, business statistics, banking, accounting tax ,finance cost accounting, entrepreneurship, auditing, strategic management and marketing.

POS4: Learners further move towards research in the field of commerce.

POS5: Enables students to demonstrate Progressive learning of various tax issues and tax forms related to individuals and businessmen and setting up their own business start up.

POS6: The vast syllabi covers various fields covers various fields of commerce and accountancy which helps students grasp practical and theoretical knowledge.

B.Com - CO's

Commerce is the whole system of an economy that constitutes an environment for business. The subject kept many students at the top of their lives and as successful persons.

The B.Com program aims at producing qualified, skilled and trained personnel for the fields such as insurance, accounting, banking, marketing, stock markets, e-commerce and computer based accounting besides teaching jobs at different areas of commerce education. Indeed this program gets overwhelming response from various corners of the region. B. Com is one of the most sought after career oriented program offered at the under graduation and post graduation level. This program opens up huge career options and opportunities at the aspiring people in the field of commerce and management. This program also prepares one to start his or her own business as an entrepreneur. Based on the core purpose of the program, following will be listed as program objectives:

- ☐ Skill enhancement, knowledge acquisition and preparing students with all other needy abilities for employment are the vital elements in its primary objectives of the program.
- ☐ Preparing students to deal with the latest issues of commerce and management in one hand and nurture the competencies among them, so as to constantly challenge and push themselves towards continuous improvement.
- ☐ Developing accounting and managerial skills besides imparting knowledge in networking and system based recording of business transactions.
- ☐ Another pivotal objective of the program is ensuring the development of core competencies, such as written and oral communication, quantitative reasoning, financial literacy and critical thinking and evaluation of business results.

Course objectives

SEM-I

FINANCIAL ACCOUNTING-I	<ul style="list-style-type: none">❑ <i>To acquire conceptual knowledge of basics of accounting and preparation of final accounts of soletrader</i>❑ 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 ORGANIZATION & MANAGEMENT	<ul style="list-style-type: none">❑ <i>To acquaint the students with the basics of Commerce and Business concepts and functions, forms of Business Organization and functions of Management</i>❑ 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.

SEM-II

FINANCIAL ACCOUNTING-II	<ul style="list-style-type: none">❑ To acquire accounting knowledge of bills of exchange and other business accounting methods❑ The American is an industry leading organization in the area of financial accounting. <p>In the United States, financial reporting standards are set forth by the FASB and required under GAAP for publicly traded companies</p>
BUSINESS LAWS	<ul style="list-style-type: none">❑ <i>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.</i>❑ 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.

SEM-III

PRINCIPLES OF INSURANCE	?
PRACTICE OF LIFE INSURANCE	?
ADVANCED ACCOUNTING	<p>?</p> <p><i>To acquire accounting knowledge of partnership firms and joint stock companies</i></p> <p>?</p> <p>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</p> <p>?</p> <p>The primary object of accounting is to identify the financial transactions and to record these systematically in the books of accounts</p> <p>?</p> <p>Every business concern is interested to know its operating results at the end of a particular period.</p>
BUSINESS STATISTICS –I	<p>?</p> <p><i>to inculcate analytical and computational ability among the students.</i></p> <p>?</p> <p>Demonstrate knowledge of probability and the standard statistical distributions.</p> <p>?</p> <p>Demonstrate knowledge of fixed-sample and large-sample statistical properties of point and interval estimators</p> <p>?</p> <p>Demonstrate understanding of how to design experiments and surveys for efficiency.</p>

SEM-IV

INCOME TAX	<ul style="list-style-type: none"> ❑ <i>To acquire conceptual and legal knowledge about Income Tax provisions relating to computation of Income from different heads with reference to an Individual Assessee</i> ❑ 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
BUSINESS STATISTICS –II	<ul style="list-style-type: none"> ❑ <i>to inculcate analytical and computational ability among the students.</i> ❑ Demonstrate knowledge of probability and the standard statistical distributions. ❑ Demonstrate knowledge of fixed-sample and large-sample statistical properties of point and interval estimators ❑ Demonstrate understanding of how to design experiments and surveys for efficiency.

SEM-V

COST ACCOUNTING	<ul style="list-style-type: none"> ❑ <i>To make the students acquire the knowledge of cost accounting methods</i> ❑ 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, <u>wages</u> and overhead are recorded, classified and allocated.
BUSINESS LAW	<ul style="list-style-type: none"> ❑ <i>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.</i> ❑ 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.
BANKING THEORY & PRACTICE	<ul style="list-style-type: none"> ❑ <i>to acquire knowledge of working of Indian Banking system</i> ❑ 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 framework)
COMPUTERIZED ACCOUNTING	<ul style="list-style-type: none"> ❑ To make the students to acquire the knowledge of computer software. ❑ It ensures efficient performance in accounting records.

	<ul style="list-style-type: none"> ❑ 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.
FINANCIAL MANAGEMENT	<ul style="list-style-type: none"> ❑ To understand the basics in financial management
PRINCIPLES OF MARKETING	<ul style="list-style-type: none"> ❑ To expose to the basics of marketing management as a ❑ functional area and to understand the various decisions under this discipline ❑ To study and critically analyse the basic concepts and trends in marketing ❑ To aware the recent changes in the field of marketing

SEM-VI

ADVERTISING	<ul style="list-style-type: none"> ❑ Updates students about current trends in advertising. • Acquaints students about various tools of IMC and careers in advertising.
MANAGERIAL ACCOUNTING	<ul style="list-style-type: none"> ❑ 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

COMPANY LAW	<ul style="list-style-type: none"> ❑ <i>to understand legal provisions applicable for establishment, management and winding up of companies in India as per Companies Act 2013.</i> ❑ 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.
FINANCIAL INSTITUTIONS & MARKETS	<ul style="list-style-type: none"> ❑ <i>To familiarize with various Financial Institutions and Markets</i> ❑ 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
COMMERCE LAB	To become familiar with various business documents and acquire practical knowledge

	, which improve over all skill & Talent
HUMAN RESOURCE MANAGEMENT	Refurbishes students with fundamental aspects of HRM, the role, functions and process of HRM. • Explains students the applications of HRIS and different theories of leadership and motivation. • Updates learners with recent trends in HRM and make students aware about challenges faced by HR managers
TAX PLANNING MANAGEMENT	To equip with the conceptual and legal knowledge about Tax planning and management with reference to various Heads of Income to relating to an individual assessee

Department of Physics

After successful completion of three year degree program in physics a student should be able to;

Programme Outcomes :

PO-1. Demonstrate, solve and an understanding of major concepts in all disciplines of physics.

PO-2. Solve the problem and also think methodically, independently and draw a logical conclusion.

PO-3. Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of Physics experiments.

PO-4. Create an awareness of the impact of Physics on the society, and development outside the scientific community.

PO-5. PO-6. To inculcate the scientific temperament in the students and outside the scientific community.

PO-7. Use modern techniques, decent equipments and Phonics software"s Programme

Specific Outcomes :

PSO-1. Gain the knowledge of Physics through theory and practical"s.

PSO-2. Understand good laboratory practices and safety.

PSO-3. Develop research oriented skills.

PSO-4. Make aware and handle the sophisticated instruments/equipments

Course Outcomes:

SEMESTER - I

TITLE OF THE COURSE: MECHANICS

On successful completion of this course students will:

1. Understand integration of vectors
2. Derive Stoke's , Greens and Gauss theorems
3. Understand Collisions in one and two dimensions
4. Understand the relation between scattering cross section and impact parameter
5. Understand the properties of materials
6. Identify and apply the laws of mechanics along with the necessary mathematics for solving numericals
7. Gain knowledge on Central forces – definition and examples, Conservative nature of central forces, Conservative force as a negative gradient of potential energy, Equation of motion under acentral force

8. Derive Kepler's laws, Coriolis force and its expressions

***** SEMESTER II

TITLE OF THE COURSE: WAVES AND OSCILLATIONS

On successful completion of this course students will:

1. Understand the concepts of mechanics, acoustics and the properties of matter
2. Understand physical characteristics of SHM and obtaining solution of the oscillator using differential equations
3. Calculate logarithmic decrement relaxation factor and quality factor of a harmonic oscillator
4. Use Lissajous figures to understand simple harmonic vibrations of same frequency and different frequencies
5. Solve wave equation and understand significance of transverse waves
6. Solve wave equation of a longitudinal vibration in bars free at one end and also fixed at both the ends
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7. Obtain boundary conditions of a longitudinal vibration in bars free at one end and also fixed at both the ends
8. Gain knowledge on applications of transverse and longitudinal waves.

***** SEMESTER

III

TITLE OF THE COURSE: THERMODYNAMICS

On successful completion of this course students will:

1. Gain knowledge in Kinetic theory of gases
2. Understand the process of thermal conductivity, viscosity and diffusion in gases
3. Understand the nature of thermodynamic properties of matter like internal energy, enthalpy, entropy, temperature, pressure and specific volume
4. Understand the efficiency of Carnot's engine.
5. Understand the significance of first law and second of thermodynamics
6. Understand implications of the second law of thermodynamics and limitations placed by the second law on the performance of thermodynamic systems
7. Evaluate entropy changes in a wide range of processes and determine the reversibility or irreversibility of a process from such calculations.
8. Understand the interrelationship between thermodynamic functions and ability to use such relationships to solve practical problems.

***** SEMESTER IV

TITLE OF THE COURSE: OPTICS

On successful completion of this course students will:

1. Gain knowledge on various theories of light
2. Acquire skills to identify and apply formulas of optics and wave physics
3. Understand the properties of light like reflection, refraction, interference, diffraction etc

4. Understand the applications of diffraction and polarization.
5. Understand the applications of interference in design and working of interferometers.
6. Understand the resolving power of different optical instruments.
7. Gain knowledge on working of holography and their applications in various fields.
8. Gain knowledge in optical fiber and their applications in communication

SEMESTER V

TITLE OF THE COURSE: ELECTROMAGNETISM :

On successful completion of this course students will:

1. Gain Knowledge on the basic concepts of electric and magnetic fields.
2. Understand the concept of conductors, dielectrics, inductance and capacitance
3. Gain knowledge on the nature of magnetic materials.
4. Understand the concept of static and time varying fields.
5. Gain knowledge on electromagnetic induction and its applications
6. Gain knowledge on EM waves, propagation and their properties.

PAPER : VI (A)

TITLE OF THE PAPER: SOLID STATE PHYSICS

On successful completion of this course students will:

1. Understand basic concepts and mathematical methods of solid state physics.
2. Practice problem solving by using selected problems in solid state physics.
3. Explore important connections between theory, experiment, and current applications.
4. Develop a basis for future learning and work experience.

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SEMESTER VI

PAPER : VII

TITLE OF THE COURSE: MODERN PHYSICS

On successful completion of the course, the students will:

1. To understand the difference between Atomic and Molecular spectroscopies.
2. Understand the intuitive ideas of the Quantum physics and Nuclear physics.
3. Derive Schrodinger time dependent and time independent wave equations
4. To understand dual nature of matter.
5. Gain knowledge on classification of various crystal systems .Understand the basics of crystallography, x-ray diffraction and Superconductivity.

7. Students will develop a comprehension of the current basis of broad knowledge in Modern physics.
8. Learners will build on a critical thinking, analytical reasoning, and problem solving skills.

PAPER : VIII (A)

TITLE OF THE COURSE : BASIC ELECTRONICS

Know the special purpose Diode.

1. Understand different concepts of electronics and network theorem.
2. Understand different concepts of semiconductor materials and devices.
3. Determine various parameters and V-I characteristics of diodes and transistors.
4. To study the Regulated Power supply.
5. Understand the working of solid state semiconductor devices used in the circuit
6. To study the Transistor Amplifier.
7. To understand the Sequential Logic Circuits.

DEPARTMENT OF POLITICAL SCIENCE

Programme outcome:

- PO 1. The students acquire knowledge in the field of Social Sciences, Literature and Humanities which make them sensitive and sensible enough.
- PO 2. The B.A. graduates will be acquainted with the Social, Economical, Historical, Geographical, Political, and Ideological thinking.
- PO 3. The program also empowers the graduates to appear for various competitive examinations or choose the post graduate programme of their choice.
- PO 4. The B. A. program enables the students to acquire the knowledge with human values to deal with various problems in life with courage and humanity.
- PO 5. The students will be ignited enough to think and act over for the solution of various issues prevailed in the human life to make this world better than ever.

PROGRAMME SPECIFIC OUTCOME:

- PSO 1 - Understanding the nature and developments in national and international politics
- PSO2 - Analysing the Indian constitutional provisions, major legislations and reforms.
- PSO3- Critical evaluation of social, economic and political variables for a proper understanding of the plurality of Indian society
- PSO4 -Building overall consciousness regarding national political history, international relations and present Indian and Western political thinkers.
- PSO5 - Encouraging a comprehensive, comparative understanding of specific world constitutions such as USA, China, Russia.
- PSO6 - Developing knowledge of administrative studies with special reference to Indian administrative structures and practices.
- PSO7 - Examining India's foreign relations with her neighbours and great powers.

COURSE OUTCOME

Semester I : Political Theory

- CO1: To understand the nature, scope and significance of political theory.
- CO2: To appreciate the procedure of different theoretical ideas in political theory.

CO3: To understand the various traditional and modern theories of political science.

Semester II: Concepts, Theories and Institutions

CO1: To evaluate the theories of origin of the state

CO2: Introducing the Indian Constitution with a focus on the evolution of it and examining the essence of the Preamble.

CO3: Examining the Fundamental Rights and Duties of Indian citizens with a study of the significance and status of Directive Principles.

CO4: Critically analyzing the important institutions of the Indian Union: the Executive: President; Prime Minister, Council of Ministers; Governor, Chief Minister and Council of Ministers; The legislature: Rajya Sabha, Lok Sabha, Speaker, Committee System, State Legislature, The Judiciary: Supreme Court and the High Court: composition and functions- Judicial Activism.

Semester III : Indian Government and Politics(Basic of Indian constitution & Citizenship)

CO1: Introducing the Indian Constitution with a focus on the evolution of it and examining the essence of the Preamble.

CO2: To know the salient features of Indian constitution

CO3: To introduce the students the concept, evolution and classification of Human Rights.

CO4: To acquaint the students with the different approaches and perspective of human rights.

Semester-IV: Indian Government & Politics

CO1: Critically analyzing the important institutions of the Indian Union: the Executive: President; Prime Minister, Council of Ministers; Governor, Chief Minister and Council of Ministers; The legislature: Rajya Sabha, Lok Sabha, Speaker, Committee System, State Legislature, The Judiciary: Supreme Court and the High Court: composition and functions- Judicial Activism.

CO2: Looking at the Centre-State Relations with focus on the Legislative, Administrative and Financial Relations.

Semester-V: Political Thought(Ancient & Medival Political Thought)

CO1: To introduce the students to the Greek political tradition, specifically to the ideas of Plato and Aristotle.

CO2: To explain the ideas of medieval and early modern political thinkers like St. Thomas Aquinas and Machiavelli.

CO3: To familiarise the students with the exponents of the Social Contract Theory- Hobbes, Locke and Rousseau.

Semester- V(Elective): International Relations(19th&20th century-I)

CO1: The students will get an overview about the nature, evolution and scope of international relations.

CO2: It will help them to get acquainted with the basic ideas of international relations

CO3: It will familiarise the students with the different approaches to the study of International Relations.

CO4: It will also give them a historical background of the discipline which will help them understand international politics in a better way.

SemesterVI- -: Political Thought(Western & Indian Political Thought)

CO1: The paper shall introduce the most prominent Indian Political Thinkers like Buddha Basava, Raja Ram Mohan Roy and Jyotiba Phule social ideas.

CO2: It shall also explain the ideas of M N Roy, Mahatma Gandhi, Jawaharlal Nehru, B R Ambedkar.

SemesterVI(Elective) : International Relations(19th & 20th century-II)

CO1: To understand the basic concepts of International Relations and also develop a preliminary understanding of the global economy.

CO2: Investigating the challenges to National Integration: Terrorism

CO3: To analyse the international security; Disarmament, Arms Control and Nuclear nonproliferation.

CO4: To introduce the students the concept, evolution and classification of Human Rights.

DEPARTMENT OF MATHEMATICS

Programme outcomes:

PO1: Scientific temper will be developed in Students.

PO2: Students will acquire basic Practical skills & Technical knowledge along with domain knowledge of different subjects in the science stream.

PO3: Students will become employable; they will be eligible for career opportunities in Industry, or will be able to opt for entrepreneurship.

PO4: Students will possess basic subject knowledge required for higher studies, professional and applied courses like Management Studies, Law etc.

PO5: Students will be aware of and able to develop solution oriented approach towards various Social and Environmental issues.

Programme Specific Outcomes:

PSO1: Think in a critical manner.

PSO2: Familiarize the students with suitable tools of mathematical analysis to handle issues and problems in mathematics and related sciences.

PSO3: Acquire good knowledge and understanding to solve specific theoretical and applied problems in advanced areas of mathematics.

PSO4: Provide students/learners sufficient knowledge and skills enabling them to undertake further studies in mathematics and its allied areas on multiple disciplines concerned with mathematics.

PSO5: Encourage the students to develop a range of generic skills helpful in Employment and social activities.

Course outcomes:

Course : BS104: Differential Calculus

- CO1: To understand the concept of partial differential Equations in more than two variables.
- CO2: To find extreme values of multivariable functions using derivatives.
- CO3: Verify the values of limit of a function at a point using the definition of a limit.
- CO4: Identify and apply the intermediate value theorem, Meanvalue theorem and L-Hospital's rule.

Course: BS204: Differential Equations

- CO1: To be able to solve first order and first degree differential equations.
- CO2: To learn methods to solve linear differential equation with constant coefficients.
- CO3: To learn methods for solving non-homogenous differential equation.

Course: BS304: Real Analysis

- CO1: To learn basic properties of real numbers and its subsets
- CO2: To study concept of sequence and series and hence find sum of infinite terms with different methods.
- CO3: To learn Riemann Integral and its properties in detail, leading to fundamental theorem of calculus.
- CO4: To study pointwise and uniform convergence of sequences and series of functions.

Course : BS404: Algebra

- CO1: To learn fundamental properties and mathematical tools such as closure, identity, inverse.
- CO2: To enhance abstract thinking of students.
- CO3: To learn to compare two different algebraic structures and study transfer of properties in-between these structures through homomorphism and isomorphism.
- CO4: To learn the construction of field of quotients of an integral domain.
- CO5: To study the Rings of polynomial and its factorization over a field.

Course: BS503: Linear Algebra

- CO1: To learn the importance of linear transformation in Physics, Engineering, Social sciences

and various branches of Mathematics.

CO2: To learn to find Eigen values and Eigen vectors of a matrix which is used in the study of vibrations, chemical reactions and geometry.

CO3: To learn Inner Product spaces and Gram-Schmidt process of orthogonalization.

Course: BS506: Analytical Solid Geometry

CO1: To learn analytical geometry of 2 and 3 dimensions which include study of conics, planes, lines, sphere, cone and cylinder.

CO2: To learn describe some of the surfaces by using analytical geometry.

Course: BS603: Numerical Analysis

CO1: To learn to apply the various numerical techniques for solving real life problems.

CO2: The problems which cannot be solved by usual formulae and methods can be solved approximately by using numerical techniques.

CO3: To fit curve to the data by using 5 different methods of interpolation as well as extrapolation.

CO4: To find approximate solutions to difficult differential equations occurring in engineering Science.

Course: BS606: Vector Calculus

CO1: To learn evaluation of double and triple integration and its application to area and volume.

CO2: Compute double integrals, applications to area and volume, Green's thm in the plane and the change of variables in double integrals.

CO3: Understand basic notions such as derivative of the scalar field w.r.to vector field, gradient of scalar field, paths and line integrals.

Department of Hindi

Programme specific out come(PSO's)

1. To create interest in Hindi literature.
2. To ensure the students for original thinking / thought decision making.
3. Understanding the basic concepts and subject of Hindi its origin.
4. To know about Hindi literature its roots cause perspectives and methods .
5. To imbibe the effective Hindi communication in both areas.(oral and writing)
6. Making an attempt in different areas theory such as vocabulary and vice versa .
7. To provide advanced knowledge of different theories of Hindi language and literature.
8. Make students eligible and apply various job notifications other part of India.
9. Evaluating the concept of Hindi from past to present and making the society more closely.

Couse outcome

Semester-1

On completion of of the course students are able to

Co1: concept of Hindi Gadya ki vivdh vidhaaen.

Co2: To know more about Hindi language useful contribution in different level.

Co3: Diffentiation and departure points of Hindi Gadya ki vivdh vidhaaen like essays and stories memories , biography ,travel ,ekanki.

Co4 : closely together there by making the society and nation more storanger and unity .

Co5: They know about the greatness of Indian culture and they know how to protect environment .

Co6: They know about the development of moral qualities .

Co7: They know about the human emotions and natural beauty sensation.

Co8: understanding the nature scope of origin of Hindi literature.

Course outcome

Semester-2

Co1.: To able to understand the Dharti ka swarg by Vishnu prabhakar .

Co2: To able to understand the Tayee story by Viswambar nath sharama koushik.

Co3: To able understand the Ekanki and Andeke chilake by Mohan Rakesh.

Co4 : To able to understand the Biography of Swamy Vivekananda by Vamshidhar Vidyalkar.

Co5 : To able to understand the Environment and we by Rajiv Grage.

Co6 : To able to understand the Stories by Ushapriyamvadha ,Mamatha Kaliya. And Susheela takbhore

Co7 : To able to understand the Letter writing personnel letter and official letter ,complaint letter,application for appointment.

Co8 : To able tounderstand the sandhivichedh and opposites .

Course outcome

Semester -3

Co1 : To able to understand the couplets by Kabeer das, Sura das,Tulasi das.

Co2 : To able to understand the poetry by Maithlysaran Gupta,Ayodhya singh upadhya harioudh.

Co3 : To able to understand the poetry by Jayashankarprasad, and Sumitranandan panth

Co4 : To able to understand by Subhadrakumari chouhan.

Co5 : To able to understand the scope origin of Hindi literature (aadhi kal,bhakti kal).

Co6 : To able to understand the how to write general essay in Hindi.

Co7 : To able to understand how to translate from English ,Telugu to Hindi.

Co8 : To able understand provide proper guidance for building life.

Co9 : To awaken the interest of students who was in Hindi poetry , benefits of getting employment opportunities such as Hindi officers ,Translators ,managers,Teachers,Lecturers .

COURSE OUTCOME

SEMESTER-4

- Co1 : To able to understand the Meerake padh.
- Co2 : To able to understand by couplets by Rahim and Bihari Lal.
- Co3 : To able to understand the poetry by Suryakanth thripati nirla and Mahadevi Varma.
- Co4 : To able to understand the poetry by Ramdhari singh dinakar and Harivamsh roy bhachan.
- Co5: To able to understand the Hindi Sahitya ka ithihas(history of Hindi literature).main tendcy of reethi kal and aadhunik kal.

COURSE OBJECTIVES AND OUTCOMES

B.Sc. (CHEMISTRY)

COURSE OBJECTIVES

1. To understand the shapes of different aspects of Chemical bonding.
2. To understand basic principles of structural aspects of Organic chemistry.
3. To understand the states of matter and their properties.
4. To understand the principles of qualitative analysis of salts.
5. To understand the concepts of elementary quantum chemistry.
6. To understand the properties of inorganic compounds.
7. To understand importance of d-block elements.
8. To understand the synthesis and chemical reactivity of organic compounds.
9. To understand the principles of electrochemistry. -
10. To understand the concepts of titrometric estimations.
11. Students will be able to understand the importance of f-block elements.
12. To understand the concepts of coordination complex formation.
13. To understand synthesis and properties of organic compounds.
14. To understand basic concepts of thermodynamics.
15. To understand the synthetic approaches of organic compounds.
16. To understand the concepts CFT and HSAB.
17. To study importance of metals in biosystems.
18. To understand the chemistry of bio-molecules and amino acids.
19. To understand the concepts chemical kinetics and photochemistry.

20. To study about colloids and bonding in metals.
21. To understand the concepts of molecular spectroscopy.
22. To understand different types separation techniques.
23. To understand the physico-chemical analytical technique.
24. To study the reaction mechanism of organic reactions.
25. To study the drug-disease relations.
26. To study the enzymatic kinetics.
27. To learn the organic synthesis of drugs.
28. To study the importance of Vitamins and hormones.

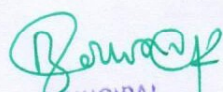
COURSE OUTCOMES

Upon successful completion of this course, the student will be able to

1. Able to evaluate bonding aspects of compounds.
2. Able to answer structural impact on properties of organic compounds.
3. Able to calculate bond order of different molecules.
4. Able to draw MO diagrams of different molecules.
5. Able to analyze cationic anionic counter parts of inorganic salts.
6. Able to tell the importance of inorganic chemicals in chemical reactions.
7. Able to analyse the concepts behind the peculiarity of d-block elements.
8. Able to calculate EMF, pH and Gibbs free energy using electrochemistry concepts.
9. Able to write for the synthesis of simple organic compounds.
10. Able to estimate carbonate and bicarbonate in given sample practically.
11. Students should be able to describe peculiarity of f-block compounds.

12. Students should be able to calculate EAN and describe isomerism of given Coordination complex.
13. Students should be able write the simple organic reactions.
14. Students will be able to solve basic numerical problems on applications of thermodynamics.
15. Students will be able to synthesize simple organic compounds.
16. Recognize and draw structures of different forms of glucose and fructose and aminoacids.
17. Will be able to calculate CFSE.
18. Will be able to calculate rate constants of different order reactions.
19. To be able to analyze given organic sample to determine its functional group.
20. The students will be able to elucidate the structure of given compound using Molecularspectroscopy.
21. Students will be able to explain how the mixtures will be separated usingchromatography.
22. To be able to analyse the sample using physico-chemical analytical techniquespractically.
23. The students will be able to explain the chemotherapeutic approaches.
24. The students will able to elaborate the impact of chemistry in everyday life.
25. To be able to explain the role of biologically active chemicals on human body.

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