# K.R.K Government Degree College

**ADDANKI-Bapatla(dt.)-523201**

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Programme outcomes for all Programmes offered by the institution are announced and exhibited on the college website and communicated to teachers and students.

## PROGRAM OUTCOMES

### 1. B.Sc (Bachelor of Science)

**PO1:** Able to explain day to day things in scientific language
**PO2:** Mathematical and biological ability
**PO3:** Computer skills
**PO4:** Knowledge about elements and their behaviour
**PO5:** Promoting Scientific thinking in the people around them
**PO6:** Logical thinking

### 2. B.Com(Bachelor of Commerce)

**PO1:** Equip with the knowledge of accounting process and preparation of final
**PO2:** Accounts of sole trader
**PO3:** Can learn economics in terms of business.
**PO4:** Can recognize market failure and the role of government in dealing with those failures
**PO5:** Can understand about the functioning of stock exchanges & mutual funds.
**PO6:** Show the ability to access, assess, and utilise a variety of relevant information sources, and use suitable tools for data analysis.

### 3. B.A (Bachelor of Arts)

**PO1:** To see that all the students, with rural background are empowered with hard and soft skills and with secular and human values that contribute for bettering the

prospects of a student's career.

**PO2:** To develop and promote the talents of the students in diversified fields in strict conformity with basic human values so that such students would become an investment for a prosperous society.

**PO3:** To impart Qualitative Knowledge and to develop communicative Skills of students besides Indian political set up.

**PO4:** To create and enhance awareness in the students in order to prepare them to meet the challenges of the competitive world.

**PO5:** Sense of society on the economical basis

**PO6:** Critical temper

**PO7:** Creative ability of assets in the social sense

**PO7:** Realisation of social activities

**PO8:** Development of historical perspectives

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## COURSE OUTCOMES

## Department of Mathematics

**Differential Equations ( 3110-1)**

Through active learning of this course, students develop their ability to
CO1: Identify different types of ordinary Differential Equations.
CO2: Solve various types of Ordinary Differential Equations
CO3: Distinguish between Lagrange' DE and Cauchy's DE
CO4: Choose a proper method to solve first order ODE.

**Solid Geometry (3110-2)**

Through active learning of this course, students develop their ability to
CO1: Identify different types of equations of three dimensional surfaces
CO2:Recall the normal form of to three dimensional surfaces
CO3:Solve problems related to three dimensional surfaces
CO4: Derive equations for different three dimensional surfaces

**Abstract Algebra (3110-3)**

Through active learning of this course, students develop their ability to
CO1: Recall the definitions of semi group, monoid, group and commutative group
CO2: Explain various properties of groups
CO3: Distinguish between even and odd permutations
CO4: Analyse the properties of normal subgroups

CO1: Differentiate groups and cyclic groups.

**Real Analysis (3110-4)**

Through active learning of this course, students develop their ability to
CO1: Recall properties of Real numbers
CO2: Calculate the limit of a sequence
CO3: Apply suitable comparison tests to find test the convergence of a series
CO4: Interpret mean value theorems geometrically
CO5: Analyse properties of Riemann integrable function.

**Ring Theory and Vector Calculus (3110-5A)**

Through active learning of this course, students develop their ability to
CO1: Reproduce the definition and properties of Rings
CO2: Appreciate the significance of maximal and prime ideals of a Ring
CO3: Differentiate various properties of Gradience of a scalar point function, Divergence and Curl of a vector point function.
CO4: Understand Gauss, Green's and Stoke's theorems and be able to apply them in solving problems of vector integration.
CO5: Apply the theory in the course to solve a variety of problems
CO6: Demonstrate skills in solving problems.

**Linear algebra (3110-5B)**

Through active learning of this course, students develop their ability to
CO1: Demonstrate understanding of basic concepts in Vector spaces, basis and dimension.
CO2: Find dimension of sum of two subspaces and quotient spaces.
CO3: Understand Rank and Nullity theorem and employ this method in a variety of applications.
CO4: Compose matrix of a linear transformation.
CO5: Apply logical thinking in problem solving.

**Numerical Analysis (3110-VIIB)**

Through active learning of this course, students develop their ability to
CO1: Identify errors in experimental data
CO2: Estimate missing data through suitable interpolation methods
CO3: Analyse methods of interpolating
CO4: Construct polynomials for a given data
CO5: Use appropriate numerical techniques to aid problem solving.
CO6: Employ methods related to the concepts in this course in a variety of applications.

# Department of Physics

Semester-I
**Mechanics**

CO1: Determine the resultant force and moment for a given system.
CO2: Calculate the motion parameters for a body subjected to a given force system.
CO3: Enhance the knowledge on beams and understand the applications of ultrasonics.

Semester-II
**Waves And Oscillations**

CO1. Understanding of the physical principles of oscillations and wave propagation
CO2. Enhance the knowledge on complexity of vibrations.
CO3. Acquire the knowledge on the properties of sound waves.

Semester-III
**Thermodynamics**

CO1: Apply the kinetic theory of gases, the properties of ideal gases and interactions that lead to non-ideal behaviour, to predict the behaviour of gas with change in temperature, pressure and volume.
CO2: Use the laws of thermodynamics and understand the efficiency and properties of thermodynamic cycles for heat engines, refrigerators and heat pumps.(Po4,PSO2)
CO3: Learn about the low temperatures and Black-body radiation and the statistical principles.

Semester-III
**Optics**

CO1: Understand basic optics, including paraxial optics, system layout, and lens performance criteria.Understand interference and various phenomena of light occurring in Nature.
CO2: Understand the diffraction and solve problems related to diffraction grating and understand the properties of light.
CO3: Enhance the knowledge on lasers, holography and optical fibres.

Semester-IV
**Electricity And Electronics**

CO 1: Illustrate the basics concepts of electric circuits, magnetic circuits (PO1,PSO1)
CO 2: Analyse and solve electric and magnetic circuits (PO4,PSO2)
CO 3: Know the production methods of electromagnetic waves (PO3,PSO4)

Semester-V
**Modern Physics**

CO1: Identify basic nuclear properties and outline their theoretical descriptions, understand the principle and working of accelerators and detectors.
CO2: Gain basic knowledge of solid state physics.
CO3: Gain in depth knowledge in the theory of superconductivity in order to understand and describe the principles behind various superconducting applications

PHYSICS practical-I
After successful completion of the course, the student will be able to:
CO1: Understanding of the physical principles of oscillations and wave propagation
CO2: Enhance the knowledge on complexity of vibrations.
CO3: Acquire the knowledge on the properties of sound waves.

**Physics Practical-II**

CO1: Determine the wavelength of sodium light by using Optical bench - Biprism .
CO2: Determine the wavelength of mercury spectrum by using Spectrometer - Diffraction grating normal incidence.
CO3: Verify Kirchhoff's current law and voltage law.
CO4: Calibrate the given ammeter using potentiometer.
CO5: Convert the Galvanometer into voltmeter.

**Electricity, Magnetism and Electronics**

CO1: Understand the basic concepts of AC circuits.
CO2: Apply the basic network theorems to simplify, analyse and design large-scale networks.

Semester-VI
**Modern Physics**
CO1: Recognizes the electronic structure and properties of atomic spectra and molecular spectra.
CO2: Draws energy levels of atomic spectra. Describes types and applications of atomic spectra.
CO3. Explains applications of quantum theory.

**Physics Practical-III**

CO1: Determine the wavelength of sodium light by using Optical bench – Lloyd's mirror.
CO2: Determine the radius of curvature of concave lens by forming Newton's rings.
CO3: Determine the Efficiency of Transformer and Figure of merit of a B.G.
CO4: Determine the refractive index of a liquid by hollow prism.
CO5: Determine the mutual inductance - Direct deflection method.

**Physics Practical-IV**

CO1: Determine the characteristics of semiconductor diode and Zenor diode.
CO2: Verify the Logic gates.
CO3: Determine the Energy gap of a semiconductor using a junction diode.
CO4: Verify Thevenin's theorem and Norton's theorem.
CO5: Determine the characteristics of C.E (Common Emitter characteristics) and F.E.T (Field effect Transistor).

**Cluster-6: Renewable Energy Sources**

CO1: Understand the concepts of physics, various renewable energy resources and use mathematical concepts to deal with them quantitatively.
CO2: Analyse problems associated with solar, wind, ocean and bio energy and energy storage systems.
CO3: Acquire the skills to study the mechanical, thermal, electrical and electronic properties of materials used for solar, wind, ocean and bio energy.
CO4: Ability to interlink the skills acquired and develop an aptitude to address the problems in the production, storage and usage stages of renewable energy systems.

# Department of Chemistry

**Semester 1 – Inorganic and organic chemistry**

CO1: Students know the basic fundamentals of inorganic chemistry
CO2: Students know the chemical behaviour of the oxygen and utilisation of oxygen in human beings
CO3: Students know the basic fundamentals of organic chemistry and also IUPAC Nomenclature of both aliphatic and aromatic hydrocarbons and heterocyclic compounds.
CO4: Students know the organometallic chemistry and utilisation of metals and alloys in human beings.

**Semester 2 – Physical and general chemistry**

CO1: Students knows the symmetry , structure , defects stoichiometric and nonstoichiometric defects in crystals.
CO2: Students know the what are semiconductors,conductors,insulators and applications in photochemical cells in different operators
CO3: Students know the how to gases can converted into liquids by using joule Thomson effect and also they know the applications of liquid crystals as lcd devices
CO4: Students know about stereochemistry of organic compounds.

**Semester 3- inorganic and organic chemistry**

CO1: Students know the d block elements ability as magnasity, catalytic activity and ability to form the complexes
CO2: Students know about formation of metal carbonyls and related compounds by CO ligands.
CO3: Students know about stero chemistry of nucleophilic substitution reactions and its mechanism.
CO4: Students know about characteristics,reactivity and different uses of cabriole compounds carboxylic acids and its derivatives active methylene compounds.

**Semester-4 – Spectroscopy and physical chemistry**

CO1: Students know the total concept and utilisation of Spectrophotometer.
CO2: Students know about fundamentals of electronic spectroscopy , infrared spectroscopy,proton magnetic resonance spectroscopy.
CO3: Students totally know the colligative properties of solutions.
CO4: Students know the concept of electrochemistry and its applications in the electronic field.

**Semester-5– paper-5 :Inorganic,organic and physical chemistry**

CO1: Students know total concept of coordination chemistry ,spectral and magnetic properties of metal complexes and their stability which is most useful in future for their research programme.
CO2: Students know nomenclature , classification , stereochemistry and different named reactions in nitro , hetero carbons and nitrogen compounds.
CO3: Students know the concept of human life related to thermodynamics.
CO4: Students know the concept of entropy ,free energy and Carnot theorem.

**Semester-5– paper-6 :Inorganic,organic and physical chemistry**

CO1: Students know the relation of bio-inorganic chemistry both in human and animal lives.
CO2: Students know the concept ,preparations , proteins and uses of hetero cyclic compounds.
CO3: Students know the bio molecules like carbohydrates to related both human and animal lifes.
CO4: Students know the concept of the amino acids and proteins related to both human and animal lifes.

**Semester-6(elective-7B) Environmental chemistry**

CO1: Students know concept of environmental chemistry which is how to related to human beings animals and nature
CO2: Students totally know the air pollution through acid rains ,photochemical smog, green house effect and depletion of ozone layer.
CO3: Students understanding about the concept of water pollution and its prevention.
CO4: Students know concept of chemical toxicology like toxicity of PB,HG,AR, and CD, Toxic Effects of Pesticides.

**Cluster -1 (8C1) Organic Spectroscopy techniques**

CO1: Students acquired knowledge about elucidation.
CO2: Students know stereo chemical aspects of molecules can be understood.
CO3: Functional groups and structure can be solved.
CO4: Wide variety of NMR applications in biology.

**Cluster -2(8C2) Advanced Organic reactions**

CO1: Students know the organic photochemistry concept through carbonile chromophore-triplet states ,jablonski diagram energy transfer.
CO2:They know the concept of protectivity groups and organic reactions.
CO3: Students know the mechanism of synthetic reactions
CO4: Students know the norrish cleavages.

**Cluster -3(8C3) pharmaceutical and medicinal chemistry**

CO1: Students know knowledge about drugs and their activity
CO2:Students can understand the synthesis of drugs like paracetamol ,penicillin etc
CO3: Students can understand Pharmacokinetics of drugs.
CO4: Students have minimum knowledge regarding pharmacodynamic of drugs.

## Department of Computer Science

**1 SEMESTER Computer Fundamentals & Photoshop**

CO1: Design layouts for web pages, Paper Adverts, Brochures, CD Covers, Package Designing.
CO2 : Event and Exhibition stall Designs, Pop Ups.
CO3: Touch Ups.
CO4: Colour corrections.
CO5 : Paintings, Drawings.
CO6 : Converting B/W photo to colour.

II SEMESTER

**Paper-II : PROGRAMMING IN C**

Upon successful completion of the course, a student will be able to
CO1: Appreciate and understand the working of a digital computer
CO2: Analyse a given problem and develop an algorithm to solve the problem
CO3: Improve upon a solution to a problem
CO4: Use the 'C' language constructs in the right way CO5: Design, develop and test programs written in 'C'.

III SEMESTER
**Paper-III : OBJECT ORIENTED PROGRAMMING USING JAVA**

CO1: Understand the concept and underlying principles of Object-Oriented programming.
CO2: Understand how object-oriented concepts are incorporated into the Java programming language.
CO3: Develop problem-solving and programming skills using the OOP concept.
CO4: Understand the benefits of a well structured program.
CO5: Develop the ability to solve real-world problems through software development in high-level programming languages like Java.
CO6: Develop efficient Java applets and applications using OOP concept.
CO7: Become familiar with the fundamentals and acquire programming skills in the Java language.

IV SEMESTER

**Paper-IV : DATA STRUCTURES**

After completing this course satisfactorily, a student will be able to

CO1: Describe how arrays, records, linked structures, stacks, queues, trees, and graphs are represented in memory and used by algorithms.

CO2: Describe common applications for arrays, records, linked structures, stacks, queues, trees, and graphs.

CO3: Write programs that use arrays, records, linked structures, stacks, queues, trees, and graphs.

CO4: Demonstrate different methods for traversing trees

CO5: Compare alternative implementations of data structures with respect to performance.

CO6: Compare and contrast the benefits of dynamic and static data structures implementations

CO7:Describe the concept of recursion, give examples of its use, describe how it can be implemented using a stack .

CO8: Discuss the computational efficiency of the principal algorithms for sorting, searching, and hashing.

V SEMESTER

**Paper-V: Database Management System**

On completing the subject, students will be able to

CO1: Design and model of data in database.

CO2: Store, Retrieve data in database.

V SEMESTER

**Paper VI : Software Engineering**

CO1: Ability to gather and specify requirements of the software projects.

CO2: Ability to analyse software requirements with existing tools

CO3: Able to differentiate different testing methodologies

CO4: Able to understand and apply the basic project management practices in real life projects

CO5: Ability to work in a team as well as independently on software projects.

VI SEMESTER

**Paper-VII: Elective-A Operating Systems**

CO1: Analyse the concepts of processes in the operating system and illustration of scheduling of processors for a given problem instance.

CO2: Identify the deadlock situation and provide appropriate solutions so that protection and security of the operating system is also maintained.

CO3: Analyse memory management techniques, concepts of virtual memory and disk scheduling.

CO4 : Understand the implementation of file systems and directories along with the interfacing of IO devices with the operating system.

## DEPARTMENT OF BOTANY

### Microbial Diversity and Non- Vascular Cryptogams - 1 Semester

On successful completion of this course,the students will be able to

CO1 : Explain Origin of life on the earth.

CO2: Illustrate diversity among the viruses and prokaryotic organisms and can categorise them.

CO3: Classify fungi,lichens,algae and bryophytes based their structure,reproduction and Lifecycle.

CO4 : Analyse and ascertain plant disease symptoms due to viruses,bacteria and fungi.

CO5: Recall and explain the evolutionary trends among amphibians of plant kingdom for their shift to land habitat.

CO6 : Evaluate The Ecological and economic value of microbes,thallophytes and Bryophytes.

### Practicals:

CO1 : Demonstrate the techniques of use of lab equipment, preparing slides and identify the material and draw diagrams exactly as it appears.

CO2: Observe And identify microbes and lower groups of plants on their own.

CO3 : Demonstrate The Techniques Of Inoculation,preparation of media etc.

CO4 : Identify The Material In The Permanent slides etc.

### Pteridophytes, Gymnosperms. Plant Taxonomy and PhytoGeography - 2 nd Semester

CO1 : Classify and compare Pteridophytes and Gymnosperms based on their morphology and reproduction.

CO2 : Justify evolutionary trends in tracheophytes to adapt for land habitat.

CO3 : Explain the process of fossilisation and compare the characteristics of extinct extant plants.

CO4 : Critically Understand Various Taxonomical aids for identification of Angiosperms.

CO5: Analyse the morphology of the most common Angiosperm Plants Their Localities And Recognize their families.

CO6 : Evaluate the ecological,ethnic and economic value of different tracheophytes and summarise their goods and services for human welfare.

CO7 : Locate different phytogeographical regions of the world and India and can analyse their floristic wealth.

## Practicals:

CO1: Demonstrate the techniques of section cutting, preparing slides, identifying of the material and drawing exact figures.

CO2: Compare and contrast the morphological, anatomical and reproductive features of vascular plants.

CO3: Identify the local angiosperms of the families prescribed to their genus and species level and prepare herbarium.

CO4: Exhibit skills of preparing slides, identifying the given twigs in the lab and drawing figures of plant twigs, flowers and floral diagrams.

CO5: Prepare and preserve specimens of local wild plants using herbarium techniques.

## Anatomy and Embryology of Angiosperms, Plant Ecology and Biodiversity- 3 Semester

CO1: Understand the organisation of issues and tissue systems.

CO2: Illustrate and interpret various aspects of embryology.

CO3: Discuss the basic concepts of plant ecology, and evaluate the effects of environmental and biotic factors on plant communities.

CO4: Appraise various qualitative and quantitative parameters to study the population and community ecology.

CO5: Correlate the Importance of biodiversity and consequences due to its loss.

CO6: Enlist The endemic/endangered flora and fauna from two biodiversity hotspots inIndiaandassess strategies for their conservation.

## Practicals:

CO1: Get familiarised with techniques of section making, staining and microscopic study of vegetative,anatomical and reproductive structure of plants.

CO2: Observe externally and under microscope, identify and draw exact diagrams of the material in the lab.

CO3:Demonstrate application of methods in plant ecology and conservation of biodiversity and qualitative and quantitative aspects related populations and communities of plants.

## Plant Physiology and Metabolism-

## Semester-4 Paper-4

CO1: Comprehend the importance of water in plant life and mechanisms for transport of water and solutes in plants.

CO2: Evaluatetherole of minerals in plant nutrition and their deficiency symptoms. Interpret The Role Of Enzymes in plant metabolism.

CO3:Critically understand the light reactions and carbon assimilation processes responsible for synthesis of food in plants.

CO4: Analyzethebiochemicalreactionsinrelation toNitrogenandlipidmetabolisms.

CO5: Evaluate The Physiological factors that regulate growth and development in plants.

co6: Examine the role of light on flowering and explain physiology of plants under stress conditions.

## Practicals:

CO1: Conduct lab and field experiments pertaining to Plant Physiology, that is biophysical and biochemical processes using related glassware, equipment,chemicals and plant material.

CO2: Estimate the quantities and qualitative expressions using experimental results and calculations

CO3: Demonstrate the factors responsible for growth and development in plants.

## Cell Biology, Genetics and Plant Breeding

## Semester -4 Paper- 5

CO1: Distinguish prokaryotic and eukaryotic cells and design the model of the cell.

CO2: Explain the organisation of a eukaryotic chromosome and the structure of genetic material.

CO3:Demonstrate techniques to observe the cell and its components under microscope.

CO4:Discuss the basics of Mendelian genetics, its variations and interpret inheritance of traits in living beings.

CO5: Elucidate the role of extrachromosomal genetic material for inheritance of characters.

CO6: Evaluate The Structure,function and regulation of genetic material.

CO7: Understand Application Principles and modern techniques in plant breeding.

CO8: Explain The Procedures Of Selection And for improvement of crops.

## Practicals:

CO1: Show the understanding of techniques of demonstrating Mitosis and Meiosis in the laboratory and identify different stages of cell division.

CO2:Identify and explain with diagram the cellular parts of a cell from model or picture and prepare models

CO3: Solve the problems related to crosses and gene interactions.

CO4: Demonstrate plant breeding techniques such as emasculation and bagging.

## Plant Tissue culture (6C)-Skill development course

## Semester-5

CO1: Comprehend the basic knowledge and applications of plant tissue culture.

CO2: Identify various facilities required to set up a plant tissue culture laboratory.

CO3: Acquire critical knowledge on sterilisation techniques related to plant tissue culture.

CO4: Demonstrate skills of callus culture through hands-on experience.

CO5: Understand the biotransformation technique for production of secondary metabolites

## Practicals

CO1: Make use of different plant propagation structures for plant multiplication.

CO2: Explore the specialised organs or asexual propagules in some plants for their proliferation.

CO3: Demonstrate skills on micropropagation of plants through vegetative propagation techniques.

CO4: Evaluate and use a suitable propagation technique for a given plant species.

## Mushroom Cultivation(7C)-Skill development course, Semester-5

CO1: Understand the structure and life of a mushroom and discriminate edible and poisonous mushrooms.

CO2:Identify the basic infrastructure to establish a mushroom culture unit.

CO3: Demonstrate skills in preparation of compost and spawn.

CO4: Acquire critical knowledge on cultivation of some edible mushrooms.

CO5: Explain the methods of storage, preparation of value-added products and marketing.

## Practicals

CO1: Identify and discriminate different mushrooms based on morphology.

CO2: Understand facilities required for mushroom cultivation.

CO3: Demonstrate skills on preparation of spawn, compost and casing material.

CO4: Exhibit skills on various cultivation practices for an edible mushroom.

## DEPARTMENT OF ZOOLOGY

**I Semester – Biology of Non-Chordates**

CO1 : Identifies a range of invertebrate animals.
CO2 : Demonstrate anatomical and physiological traits of each taxonomic group.
CO3:Enlists the clinical traits of any taxonomic group asked.
CO4 :Give examples of each taxonomic group asked.

**I Semester – Biology of Non-Chordates Practical I**

CO1 : Can recognize the animals based on the morphological features.
CO2 : Explain the morphology and sexual dimorphism of Drosophila melanogaster.

**II Semester – Biology of Chordates**

CO1 : Identifies a range of invertebrate animals.
CO2 : Demonstrate anatomical and physiological traits of each taxonomic group.
CO3: Enlists the clinical traits of any taxonomic group asked.
CO4 : Give examples of each taxonomic group asked.

**II Semester – Biology of Chordates Practical II**

CO1 : Can recognize the animals based on the morphological features.
CO2: Explain the morphology and sexual dimorphism of Rana tigrina.

**III Semester – Cell Biology, Genetics & Evolution**

CO1 :Differentiate between animal and plant cells.
CO2 :Describe the structure and function of each cell organelle.
CO3 :Solve the problems on Mendelian ratios.
CO4 : Enlist the clinical features of Chromosomal abnormalities.

**III Semester – Cell Biology, Genetics & Evolution Practical III**

CO1 :Identifies the cell division phases.
CO2 : Identify human chromosomal diseases.

**IV Semester – Embryology, Physiology and Ecology**

CO1 : Can enlist various morphogenetic movements.
CO2 : Can anticipate the problems of loss of organiser.
CO3 : Enlist various digestive enzymes and their functions.
CO4 : Interpret the role of various Abiotic factors of the ecosystem.

**IV Semester – Embryology, Physiology and Ecology Practical IV**

CO1 : Identify various stages in the embryonic development of the frog.
CO2 : Can identify the source of water by finding the D.O of the sample.

**V Semester – Animal Biotechnology**
CO1 : Identify the role of DNA in the transmission of the characters.
CO2 : Describe the mechanism of action of Restriction Enzymes.
CO3 : Explain the procedure of PCR in the amplification of the DNA.
CO4: Differentiate among the blotting techniques.

**V Semester – Animal Biotechnology Practical V**

CO1 : Explain the protocol of PCR technique Describe the Blotting Technique protocols.
CO2 : Interpret the procedure of isolation of DNA from E.coli.

**V Semester – Animal Husbandry VI**
CO1 : Can make the students know about various breeds of buffaloes and cows of indigenous and exotic breeds.
CO2 : Can make the students learn about various techniques involved in improving milk production.
CO3 : Can make the students learn about gene mutations to improve milk and meat production from dairying.

**V Semester – Animal Husbandry Practical VI**

CO1: To make the students know about various indigenous breeds.
CO2 : To make the students know about various Exotic breeds of higher milk yield.
CO3 : To make the students know about various diseases of dairy breeds.
CO4 : To make the students learn about various techniques of Dairying.

**VI Semester – Immunology Paper VII (A)**
CO1 : Enlist various organs of the immune system.
CO2 : Enlist various cells involved in the mounting of immune response.
CO3 : Explain the mechanism of action of Antibodies.
CO4 : Differentiate between T Helper and T Cytotoxic cells.

**VI Semester – Immunology Paper VII (A) Practical**

CO1 : Can isolate and extract the thymus of the rat.
CO2 : Can do blood grouping of the given blood sample.

**VI Semester – Principles of Aquaculture VIII B 1**

CO1 : Define aquaculture and its principles.
CO2 : Enlist the cultivable species of freshwater.
CO3 : Identify the given fish based on the morphological features of the fish.
CO4: Distinguish between the freshwater and marine fishes.

**VI Semester Aquaculture Management VIII B 2**

CO1 : Differentiate between Bundh and induced breeding.
CO2 : Describe the structure and function of hatchery for fish and shrimp.
CO3 : Explain the need for diversity of aquaculture for sustainability.
CO4 : Identify the role of training in improving production of aquaculture.

**Post Harvest Technology VIII B3**

CO1 :Evaluate the fish products with respect to organoleptic, chemical and microbial quality.
CO2 :Enlist various fish preservation methods.
CO3 : Describe the protocols of preparation of fish by-products.

**VI Semester – Principles of Aquaculture VIII B 1 Practical**

CO1: Identify the given fish based on the morphological features of the fish.
CO2 :Identify the disease of the fish based on the already known clinical symptoms.

**VI Semester - Aquaculture Management VIII B 2 Practical**

CO1: Identify the live food organisms of shrimp
CO2: Formulate the feed with the given percentage of protein

**Project Work**

CO1:Masters the practices of literature review.
CO2:Can choose suitable methods for the selected research problem.
CO3: Can write a dissertation/synopsis/research paper.
CO4: Can employ suitable statistical tools for analysing the data collected.

## Department of English:

**Semester I: A Course in Communication and Soft Skills**

*By the end of the course the learner will be able to:*

CO1: Use grammar effectively in writing and speaking.

CO2: Demonstrate the use of good vocabulary

CO3: Demonstrate an understanding of writing skills

CO4: Acquire ability to use Soft Skills in professional and daily life.

CO5: Confidently use the tools of communication skills.

**Semester II: A Course in Reading & Writing Skills**

*By the end of the course the learner will be able to:*

CO1: Use reading skills effectively

CO2: Comprehend different texts

CO3: Interpret different types of texts

CO4: Analyse what is being read

CO5: Build up a repository of active vocabulary

CO6: Use good writing strategies

CO7: Write well for any purpose

CO8: Improve writing skills independently for future needs.

**Semester III: A Course in Conversational Skills**

*By the end of the course the learner will be able to :*

CO1: Speak fluently in English

CO2: Participate confidently in any social interaction

CO3: Face any professional discourse

CO4: Demonstrate critical thinking

CO5: Enhance conversational skills by observing the professional interviews.

## DEPARTMENT OF HINDI

**Sem-1**

CO1:Develop competence in literary forms (Hindi & Fiction).
CO2:Develop Reading, Writing & Communication Skills in Hindi.

**Sem-2**

CO1: The aim of the course is to guide the students to the world of Hindi fiction (Short stories).
CO2: To develop the capacity of creative process and communication skills.

**Sem-3**

CO1:The aim of the course is to sensitise the students to the aesthetic aspects of literary appreciation and to introduce Hindi Poetry.
CO2:Students able to understand and work in Functional Hindi
CO3: To equip the students for the jobs of Hindi translators and Teachers.

## Department of Commerce

### ACCOUNTING - I (GENERAL & FINANCIAL COMPUTER)

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

CO1: Acquire conceptual knowledge of basics of accounting
CO2: Identify events that need to be recorded in the accounting records
CO3: Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP
CO4: Describe the role of accounting information and its limitations
CO5: Equip with the knowledge of accounting process and preparation of final accounts of sole trader
CO6: Identify and analyse the reasons for the difference between cash book and pass book balances
CO7: Recognize circumstances providing for increased exposure to errors and frauds
CO8: Determine the useful life and value of the depreciable asset.

### BUSINESS ECONOMICS (GENERAL & COMPUTER)

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

CO1: Learn economics in terms of business.
CO2: Describe the nature of economics in dealing with the issue of scarcity
CO3: Perform supply and demand analysis to analyse the impact of economic events on Markets
CO4: Analyse the behaviour of consumers in terms of the demand for products
CO5: Evaluate the factors affecting firm behaviour, such as production and costs
CO6: Analyse the performance of firms under different market structures,
CO7: Recognize market failure and the role of government in dealing with those failures
CO8: Understand the dynamics of how the markets work
CO9: Use economic analysis to evaluate controversial issues and policies.

### BUSINESS ORGANIZATION (GENERAL & COMPUTER)

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

CO1: Understand the scope of Business, and its importance.

CO2: Describe the Social Responsibility of Business towards the society
CO3: Explain business ethics as an integral part of every business organisation
CO4: Identify different forms of business organisations viz; Sole Proprietorship, Partnership, Joint Hindu Family Business & Co-operative Organisations.
CO5: Understand a Joint Stock Company and various formalities to promote a Company
CO6: Identify the various vital documents of a company
CO7: Learn various sources Industrial Financial resources and the means to raise them
CO8: Understand about the functioning of Stock Exchanges & Mutual funds.

**FINANCIAL ACCOUNTING - II (GENERAL & COMPUTER)**

At the end of this course, student should be able to

CO1: Appreciate the need for negotiable instruments and procedure of accounting for bills honoured and dishonoured
CO2: Differentiate Trade bills from Accommodation Bills
CO3: Understand the concept of Consignment and learn the accounting treatment of the various aspects of consignment
CO4: Distinguish Joint Venture and Partnership and to learn the methods of maintaining records under Joint Venture
CO5: Distinguish between Single Entry and Double Entry
CO6: Know the ascertainment of profit under Single Entry system.
CO7: Understand the meaning and features of Non-Profit Organisations
CO8: Learn to prepare Receipts & Payment Account, Income & Expenditure Account and Balance Sheet for Non-Profit Organisations.

**ADVANCED ACCOUNTING (GENERAL & COMPUTERS)**

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

CO1: Prepare financial accounts for partnership firms in different situations of admission, retirement, death and insolvency of the partners.
CO2: Prepare financial statements for partnership firms on dissolution of the firm.
CO3: Employ critical thinking skills to understand the difference between the dissolution of the firm and dissolution of partnership. Understand the various types of capital structure of the company and their representation in the balance sheet.
CO4: Evaluate the different situations of capital issue to public like issue at premium, issue at discount, forfeiture of shares etc.
CO5: Demonstrate an understanding about the profits of the company and their division.
CO6: Preparation of financial accounts with profits before incorporation.
CO7: Understand the valuation of shares and goodwill and prepare financial statements.

**INCOME TAX-I (GEN & COMPUTER)**

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

CO1: Acquire the complete knowledge of basic concepts of income tax
CO2: Understand the concept of exempted incomes.
CO3: Understand the provisions of agricultural income
CO4: Calculate Residential status of a person.
CO5: Identify and comply with the relevant provisions of the Income Tax Act as it relates to the income tax of individuals
CO6: Compute the income under the head" Income from Salary"
CO7: Compute income under the head "Income from House Property" • Compute income under the head "Income from Business or Profession.

**BUSINESS STATISTICS-I (GENERAL & COMPUTERS)**

On successful completion of this course, student should be able to

CO1: Understand basic statistical concepts such as statistical collection, statistical series, tabular and graphical representation of data
CO2: Calculate measures of central tendency, dispersion and asymmetry, correlation and regression analysis
CO3: Apply knowledge to solve simple tasks using computer
CO4: Independently calculate basic statistical parameters viz- mean, measures of dispersion, correlation coefficient, indexes)
CO5: Based on the acquired knowledge to interpret the meaning of the calculated statistical indicators
CO6: Choose a statistical method for solving practical problems
CO7: Highlight statistical relationships between variables in data sets
CO8: Predict values of strategic variables using regression and correlation analysis.

**CORPORATE ACCOUNTING (GENERAL & COMPUTERS)**

Upon successful completion of this course, a student will be able to
CO1: Understand the regulatory environment in which the companies are formed and operate
CO2: Have a solid foundation in accounting and reporting requirements of the Companies Act and relevant Indian Accounting Standards
CO3: Have a comprehensive understanding of the advanced issues in accounting for assets, liabilities and owner's equity
CO4: Understand the treatment regarding issue of bonus shares and treatment of prior period profits
CO5: Account for mergers and amalgamations
CO6: Value goodwill and shares under various methods
CO7: Draft Final Accounts for Manufacturing concerns, Banks and Insurance Companies
CO8: Perform computerised accounting using the Tally package.

## COST AND MANAGEMENT ACCOUNTING (GENERAL)

Upon successful completion of this course students will be able to

CO1: Understand various costing systems and management systems
CO2: Analyse and provide recommendations to improve the operations of organisations through the application of Cost and Management accounting techniques
CO3: Evaluate the costs and benefits of different conventional and contemporary costing systems
CO4: Differentiate methods of schedule costs as per unit of production
CO5: Differentiate methods of calculating stock consumption
CO6: Identify the specifics of different costing methods
CO7: Analyse cost-volume-profit techniques to determine optimal managerial decisions.
CO8: Apply cost accounting methods for both manufacturing and service industry.

## BUSINESS LAW(GENERAL & COMPUTERS)

Upon successful completion of Business Law the student will be able to

CO1: Communicate effectively using standard business and legal terminology.
CO2: Demonstrate recognition of the requirements of the contract agreement
CO3: Demonstrate understanding of contract consideration and capacity
CO4: Demonstrate recognition of the genuineness of assent in contract formation.
CO5: Demonstrate understanding of legality and Statute of Frauds in contracts
CO6: Identify contract remedies
CO7: Demonstrate recognition of transactions involving the Sales of Goods Act
CO8: Demonstrate recognition of consumer protection and intellectual property rights
CO9: Understand the various provisions of Company Law
CO10: Demonstrate the use analytical skills in case study analysis.
CO11: Demonstrate an understanding of the Legal Environment of Business.

## AUDITING ( GENERAL & COMPUTERS )

Upon successful completion of this course students will be able to

CO1: Understand the environment and types relating to the auditing function
CO2: Identify the steps needed to prepare for an audit
CO3: Understand general audit terminology
CO4: Plan an audit taking into account concepts of evidence, risk and materiality
CO5: Know the steps for performing an audit
CO6: Know how to prepare and use working papers, such as checklists
CO7: Evaluate internal controls;
CO8: Know how to report results of audit

CO9: Apply auditing practices to different nature of Concerns
CO10: Equipped to draft business reports and letters

**E-COMMERCE ( GENERAL & COMPUTERS )**

Upon successful completion of this course students will be able to

CO1: Understand the fundamental and importance of E-commerce
CO2:Gain knowledge of different types in E-commerce
CO3: Analyse the impact of E-commerce on business models and strategy
CO4: Learn about the infrastructure for E-commerce
CO5: Learn the key features of Internet, Intranets, Extranets and web technology and how They relate to each other.
CO6: Understand EDI as an exchange of business documents in a standard electronic format between business partners.
CO7:Know the legal issues and privacy in E-Commerce
CO8:Assess the electronic payment systems
CO9: Be familiar with E-Marketing &E-Advertising in E-commerce.

**COST ACCOUNTING ( COMPUTERS )**

Upon successful completion of this course students will be able to

CO1: Imbibe conceptual knowledge of cost accounting.
CO2: Understand the significance of cost accounting in the modern economic environment
CO3: Select the costs according to their impact on business
CO4: Differentiate methods of schedule costs per unit of production
CO5: Differentiate methods of calculating stock consumption
CO6: Identify the specifics of different costing methods
CO7: Interpret the impact of the selected costs
CO8: Apply cost accounting methods to evaluate and project business performance.

CO9: Demonstrate mastery of costing systems, cost management systems, budgeting systems and performance measurement systems.

**MANAGEMENT ACCOUNTING AND CONTROL(computer)**

Upon successful completion of this course students will be able to

CO1: Apply management accounting and its objectives in facilitating decision making.
CO2: Apply and analyse different types of activity-based management tools through the preparation of estimates .
CO3: Analyse cost-volume-profit techniques to determine optimal managerial decisions.

CO4: Perform cost variance analysis and demonstrate the use of standard costs in flexible budgeting.
CO5: Prepare analyses of various special decisions, using relevant management techniques.
CO6: Calculate various accounting ratios, reports and relevant data.
CO7: Prepare a master budget and demonstrate an understanding of the relationship between the components.
CO8: Prepare Cash Flow and Funds Flow statements this helps in planning for intermediate and long-term finances.

## Department of Political Science

Course-1: INTRODUCTION TO POLITICAL SCIENCE

On successful completion of the course the students will be capable to

CO1: know the previous knowledge about Political Science and understand the nature and scope, traditional and modern approaches of Political Science.

CO2: Understand concepts intrinsic to the study of Political Science.

CO3: Have solid theoretical understanding of Rights and its theories along with the basic aspects of certain political ideologies.

CO4: Apply the knowledge to observe the field level phenomena.

**Course-2: BASIC ORGANS OF THE GOVERNMENT**

On successful completion of the course the students will be enable to

CO1: Familiar the Origin and Evolution of the concept of Constitutionalism and Classification of Constitutions.

CO2: Know the different theories of the origin of the State.

CO3: Learn and analyses organs and forms of Governments along with a deep insight into the various agents involved in the political process.

CO4: Apply the knowledge to analyse and evaluate the existing systems.

**Course-3: INDIAN GOVERNMENT AND POLITICS**

On successful completion of the course the students will be Understand to

CO1: Learn about the philosophical underpinnings and key elements of the Indian Constitution, as well as the historical context of the Constitution's evolution in India.

CO2: Understand how the fundamental rights and guiding principles of state policy relate to the relationship between the state and the individual.

CO3: Familiarise themselves with the structure and operations of the Union Government as well as State Government, and ultimately, become familiar with the country's judicial system and new developments such as judicial reforms.

**Course- 4 : INDIAN POLITICAL PROCESS**

On successful completion of the course the students to be able to :

CO1: Be familiar with the nation's electoral system and be able to pinpoint regions in need of electoral reform. Know and comprehend the federal structure of the nation as well as some of the most important contemporary challenges.

CO2: Have a thorough understanding of the 73rd and 74th Constitutional Amendment Acts, as well as the constitutional foundation and operation of municipal governments.

CO3: Develop a sensitive understanding of the contributing causes and develop knowledge of the dynamics of Indian politics and the difficulties faced.

**Course 5: WESTERN POLITICAL THOUGHT**

On successful completion of the course the students to be able to

CO1: Recognize the essential tenets of classical, western political philosophy, the fundamentals of mediaeval political thinking, and the transition from the Middle Ages to the Modern Era.

CO2: Become familiar with the Social Contract Theory and recognize how it affects how the state is viewed in terms of its objectives and function.

CO3: Learn about liberal and Marxist thought, and examine some current tendencies in western political thought.

**Course 6 D: ELECTORAL POLITICS AND VOTING BEHAVIOUR**

Students at the successful completion of the course will be able to

CO1: Familiarise students with the structure and methods of operation of the Indian Election Commission.

CO2: Be familiar with electoral politics' political issues.

CO3: Give a general summary of voting behaviour and turnout in India.

CO4: Aware of how technology and new media are used in election campaigns.

CO5: Gain knowledge of the abilities needed for data collecting and research in election management

**Course 7 D: LEGISLATIVE PROCEDURES AND PRACTICE**

Students at the successful completion of the course will be able to

- CO1: Familiarise yourself with statutory practices.-
- CO2: Give the students the necessary tools for taking part in democratic decision-making and deliberative processes.
- CO3: Create speeches and floor statements, draw new legislation, research existing legislation, and understand complex policy concerns.
- CO4: Give them the tools they need to join a team supporting legislation, and expose them to actual legislative activity.
- CO5: Improve grasp of House procedures, practices, various committees, and motions.

## DEPT. OF PUBLIC ADMINISTRATION

**COURSE TITLE: THEORIES AND APPROACHES OF PUBLIC ADMINISTRATION.**

CO1: The student comprehends the weberian model of bureaucracy.

CO2: The student is able to understand New Public Administration.

CO3: The Socio-Psychological Approaches enable the student to understand the human side of the organisation and its dynamics.

CO4: The student understands the Concepts of Public and Private Administration and their relationship.

CO5: The theories and approaches of Public Administration gives the student a comprehensive understanding of the functioning of the Organisation at large.

**COURSE TITLE: INDIAN ADMINISTRATION**

CO1: The course gives an overview of the Structure and Functioning of the Indian Administrative System.

CO2: The student understands the Evolution of the Indian Administrative System and its Historical background.

CO3: An overall understanding of the Central Administration with an emphasis on the Constitutional Authorities like the President, The Vice President , The Prime Minister and the Council of Ministers is clearly an outcome of the Course.

CO4: The Student gets an in depth idea of the Union-State Relations and Federal Structures like All India Services, Finance Commission etc.

CO5: A clear understanding of the functioning of the Public Enterprises in India along with The functioning of the State Governments is an important outcome of the Course.

CO6: The Student is acquainted with District Administration and the Changing Role of the District Collector along with an understanding of the Local Administration.

CO7: The Student comprehends the importance of Administrative Accountability in the form of Legislative and Judicial control over Administration.

**COURSE TITLE: INDIAN ADMINISTRATION- EMERGING ISSUES**

CO1: The Course gives the Student an overview of the need and the importance of Ombudsman like Lokpal and Lokayukta in India and also Consumer Rights and Consumer protection Forums.

CO2: The RIGHT TO INFORMATION ACT,2005 and the Human Rights commissions in India give the student the awareness about protection of Rights of the Citizens guaranteed by the Constitution of India.

CO3: The student is made aware of the Welfare Mechanism for the execution of the Welfare Programmes in India.

CO4: The student learns about the various Administrative Reforms Commissions and their recommendations. Emerging Issues like Disaster Management and E-Governance are very useful to the student.

CO5: A study of Public Private Partnership(PPP) and the voluntary sector makes the student aware of these newly Emerging issues.

CO6: The student gains the knowledge of Public Corporations and Independent Regulatory Commissions like TRAI, SEBI, IRDAetc in regulating the service sector in India.

## Department of Economics

**BA -I : Microeconomics – consumer Behaviour**

CO1: Understanding of the scope of Economics.

CO2: Features and characters of Micro and Macro Economics.

CO3: How to learn the spending process at the micro level of Economics.

CO4: How we reach the equilibrium in consumer behaviour.

**BA – II : Microeconomics – Production and price theory**

CO1: Awareness about the production process

CO2: How the students can follows the concepts of homogeneous production

CO3: How can maintain the revenue and expenditure

CO4: Understanding the market structure and price determination.

**BA –III : Macroeconomics – concepts of macro Economics**

CO1: How can the solutions be about the trade cycle?

CO2: Understand the basic features of macro analysis.

CO3: Awareness about the features of LPG models.

CO14: Comprehensiveness about the Global economy.

**BA -IV: Macro Economics – Banking and international Trade**

CO1: Understanding about the recent trends in the banking sector.

CO2: Money market performance awareness.

CO3: Knowledge about the Non-Banking financial institutions.

CO4: Comprehensiveness about the Global economy.

**BA -V: Indian Economy**

CO1: Outcome of the Indian basic features and characteristics.

CO2: Process about the basic knowledge about Indian Agriculture.

CO3: Basic mobilisation about the inter related industrial sector.

CO4: Understanding the features of 3 sectors ,interlink age about the economy.

**BA –VI : Andhra Pradesh Economy**

CO1: Intention of the newly formed sectors in the AP Economy.

CO2: Progress and performance of Agriculture in the economy.

CO3: Knowledge acquired about the newly established sector in recent days.

CO4: How the Government AP Implements the scheme's awareness.

**BA –VII: Agricultural Economics**

CO1: Basic awareness about the nature and scope of Agricultural Economics.

CO2: Technical and institutional awareness about farm production.

CO3: Comprehensiveness about the new strategies in the business enterprises.

CO4: How to reach growth and the strategies in the business enterprises.

**BA –VIII (Sem-VI A1) : Agribusiness Environment in Andhra Pradesh**

CO1: Identification of basic features of the Agribusiness environment.

CO2: Understanding of the basic concepts of Dynamics of Agriculture.

CO3: Knowledge about Agricultural finance.

CO4: Financial support to the agriculture and industry.

**BA –IX (Sem-VI – A2) : Agricultural output marketing**

CO1: Identifications of basic features of the Agribusiness environment.

CO2: Knowledge about Agricultural finance.

CO3: Financial support to the agriculture and industry.

**BA –X (Sem-VI – A3) : Agricultural Input marketing**

CO1: Clarifying the crop sector and livestock sector and inter –linkage.

CO2: Understanding the market structure and price determination.

CO3: Technical and institutional awareness about farm production.

CO4: Knowledge about Agriculture finance.

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## DEPARTMENT OF HISTORY

**Course1: (Semester-1) ANCIENT INDIAN HISTORY & CULTURE (from Indus Valley Civilization to 13th Cen A.D)**

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

CO1: Identify and define various kinds of sources and understand how history books are shaped.

CO2: Compare and contrast various stages of progress from IVC to Vedic age and analyze the Jain, Buddhist and Vedic faiths.

CO3: Increase the awareness and appreciation of Transition from Territorial States to Emergence of Empires.

**Course 3: (Semester-3) MODERN INDIAN HISTORY & CULTURE (1764-1947 A. D)**

CO1: Unearth the true nature of the British rule and its disastrous impact on Indian economy and society.

CO2: Gauge the disillusionment of people against the Company's rule even during the early 19th century.

CO3: Assess the causes and effects of Reformation movements and also inspire the public to overthrow inequalities of the present day society.

**Course 4: (Semester-4) HISTORY & CULTURE OF ANDHRA (FROM 1512 TO 1956 AD)**

CO1: Interpret social and political and cultural transformation from mediaeval to modern Andhra.

CO2: Relate key historical developments during mediaeval period occurring in coastal Andhra and Telangana regions and analyse socio - political and economic changes under QutbShahi rulers.

CO3: Understand gradual change, or change in certain aspects of society in Andhra, rather than rapid or fundamental changes.

**Course 5: (Semester-4) HISTORY OF MODERN WORLD (From 15th Cent. AD to 1945 AD)**

CO1: Demonstrate advanced factual knowledge of world histories, politics, and cultures.

CO2: Assess and appraise the developments in art, literature, and society during the Renaissance and utilise content knowledge of the Reformation and Counter Reformation to make predictions about the evolution of Christianity in Europe and Abroad.

CO3: Evaluate the causes for the Glorious Revolution and American Revolution and identify the background for the evolution of the human rights movement.

**Course 6B: (Semester-5/6) Tourism and Hospitality Services**

CO1: Understand hospitality as a career.

CO2: Inculcate interpersonal skills.

CO3: Develop the ability for multitasking and crisis management.

CO4: Understands the spirit of teamwork.

**Course 7B: (Semester-5/6) Tourism Guidance and Operating Skills**

CO1: Acquire tour guiding, operating and soft skills.

CO2: Understand different situations under which one has to work.

CO3: Cultivate cultural awareness and flexibility.

CO4: Understand and apply team spirit.

# తెలుగు విభాగము

## డిగ్రీ మొదటి సంవత్సరము బి.ఎ||బి.కాం||బి.ఎస్సి|| మొదటి సెమిస్టరు

### ప్రాచీన కవిత్వము – ఆధునిక కవిత్వము – వ్యాకరణము

- తెలుగు భాష ఔన్నత్యమును తెలియజేయుట.
- నన్నయ,తిక్కన రచనలలలోని ఔచిత్యాన్ని,రసాభ్యుచిత బంధాన్ని తెలుసుకొని రచనా మార్గంలోకి అడుగిడుట .
- దాయాదులపోరు వంశనాశనానికే అని తెలుసుకొనుట.
- పరిణామ క్రమంలో కవిత్వంలో వచ్చిన మార్పులు(పద్యం,గద్యం,వచన కవిత,గేయ కవిత మొ ||)
- స్త్రీని అవమానిస్తే నాశనం తప్పదు.
- మాండలిక భేదాలను తెలుసుకొనుట.
- గ్రామీణ వాతావరణంలోని అనుబంధాలు.
- రాయలసీమ లోని కరవు, ప్రజల దుర్భర జీవితం.
- భాషకు వ్యాకరణం ప్రధానం.
- పదనిర్మానానికి,వాక్య నిర్మాణానికి వ్యాకరణం ఆవశ్యకం.

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డిగ్రీ మొదటి సం|| బి.ఎ.||బి.కాం.||బి.ఎస్సి.|| ద్వితీయ సెమిస్టరు

ప్రాచీన సాహిత్యము - ఆధునిక సాహిత్యము – ఉపవాచకము

- ఇతిహాసాన్ని పరిచయం చేస్తూ భక్తి మార్గాన్ని వివరించుట.
- మానవుల వలెనే పశు పక్ష్యాదులుకు దైవభక్తి ఉంటుందని తెలుసు కొనుట.
- తెలుగు పలుకుబడులు,లోకోక్తుల చమత్కారాన్ని తెలుసుకొనుట
- వివాహ రకాలు(గాంధర్వం,బ్రాహ్మం,రాక్షసం)
- మానవతావాదాన్ని అనుసరించుట.
- రాజుల అహంకారము - కవి ధైర్యము.
- ప్రకృతి పరిరక్షణకై హరిత హారానికి శ్రీకారం చుట్టడం.
- కరవు పరిస్థితులు రైతు స్థితిగతులు .
- మారుతున్న పల్లె వాతావరణం.
- స్త్రీలను మభ్యపెడుతున్న రాజకీయాలు.
- ఆచారాలు, సంప్రదాయాలు రక్షణ.
- నాటక ప్రదర్శనలలో కాలక్రమములో వచ్చిన మార్పులు .

డిగ్రీ రెండవ సం|| బి.ఎ||బి.కాం||బి.ఎస్సి|| 3వ.సెమిస్టరు.

ప్రాచీన కవిత్వము - ఆధునిక కవిత్వము – ఉపవాచకము.

- రాక్షస రాజైనా బలిచక్రవర్తి భక్తి తత్పరత .
- గురువు శిష్య రక్షణకై పడే తాపత్రయం.
- స్నేహం గొప్పతనాన్ని తెలుసుకొనుట.
- ఎంతటి వర గర్వితుడైనా పుట్టినవాడు గిట్టక తప్పదు.
- కృత యుగంలో మానవుల జీవితం
- మన పండుగలు,సాంప్రదాయాలు ప్రాముఖ్యత తెలుసుకొనుట.
- తెలుగు భాష ప్రాచీనత,గొప్పతనాలను తెలుసుకొనుట.
- వ్యక్తిత్వవికాసభావాలనుపెంపొందించుట(ఆశావాదం,సమయపాలన మొ||
- సమాజంలోని వివిధ రకాలైన వ్యక్తులు వారి స్వభావాలు .

## ఈ మూడు సెమిస్టర్లలో  తెలుగు చదవడం వలన విద్యార్థి :-

- తెలుగు భాష ప్రాచీనతను, గొప్పతనాన్ని  తెలుసుకుంటాడు.
- తెలుగు సాహిత్యం  మీద మక్కువ పెంచుకుంటాడు.
- రచనచేయడానికి ప్రయత్నం చేస్తాడు.
- మన సంస్కృతి సాంప్రదాయాలను అవగాహన చేసుకుంటాడు.
- వ్యక్తిత్వ వికాసాన్ని  పొందుతాడు.
- సాహిత్యాభిరుచి, చదవాలనే ఆసక్తి పెంచుకుంటాడు.
- కులరహిత సమాజం కోసం పాటుపడతాడు.
- ప్రకృతి పరిరక్షణకు నడుం కడతాడు.