ASD GOVT. DEGREE COLLEGE FOR WOMEN (A), KAKINADA.

DEPARTMENT OF ZOOLOGY & AQUACULTURE TECHNOLOGY

DEPARTMENT OF ZOOLOGY (2021-2022)

Program Outcomes (POs)

The Learning Outcomes of the programme could be in consonance with the Bloom"s Taxonomy, which includes –

1. Remember (Lower order)
2. Understand (Lower Order)
3. Apply (Lower Order)
4. Analyze (Higher Order)
5. Evaluate& Problem Solving (Higher Order)
6. Create (Higher Order)

PO1Critical thinking: Able to understand and utilize the principles of scientific enquiry, think analytically, clearly and evaluate critically while solving problems and making decisions during biological study.

PO2Effective communication: Able to formally communicate Scientific ideas and investigations of the biology discipline to pursuing both oral and written communication skills.

PO3Social interaction: Able to develop individual behavior and influence society and social structure.

PO4Effective citizenship: Able to work with a sense of responsibility towards social awareness and follow the ethical standards in the society.

PO5Ethics: Ability to demonstrate and discuss ethical conduct in scientific activities. **PO6Environment and Sustainability:** Able to understand the impact of biological science in societal and environmental contexts and demonstrate the knowledge for sustainable development.

PO7Self-directed and life-long learning: Able to recognize the need of life-long learning and engage in research and self-education.

PSO's of B.Sc CBZ

1. To develop skills in both theory and practical in Botany, Zoology and Chemistry.
2. To appreciate interdisciplinary aspects in Botany, Zoology and Chemistry
3. To facilitate the students to pursue higher studies in interdisciplinary areas such as Biochemistry, Bioinorganic Chemistry, Bioinformatics etc..,
4. To facilitate employment as lab analyst in Biological Laboratories.
5. To acquire knowledge and understanding in various instrumentation techniques such as Chromatography, PCR, HPLC which are applicable to all subject disciplines

Lecturer-in-Charge.
DEPARTMENT OF ZOOLOGY
G.B. GOVT. COLLEGE FOR W...
KAKINADA-2

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A.S.D.GOVT.DEGREE COLLEGE
AUTONOMOUS
KAKINADA

PSO's of B.Sc CBZ

1. To develop skills in both theory and practical in Botany, Zoology and Chemistry.
2. To appreciate interdisciplinary aspects in Botany, Zoology and Chemistry
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Programme Specific and Course Outcom

Programme Specific Outcomes (PSO):

Sanskrit is a very rich language of IE language group. Sanskrit is a medium to know about ancient Indian history, culture, religion, social life through its text. The academic programme of both Honours and General degree courses are designed not only professional skill but also develop a deep understanding of rich heritage and dynamic prevalent scenario of India through various Sanskrit texts.

PSO1. Develop a strong concept of ancient Indian history, philosophy and literature.

PSO2. Enhance communication skills-Listening, Speaking, Reading, Writing.

PSO3.Students will be able to write Devnagari scripts which provide them paleographical knowledge to read out the script of modern languages like Hindi and Marathi.

PSO4. Increase in depth knowledge of the Core Areas of the subject.

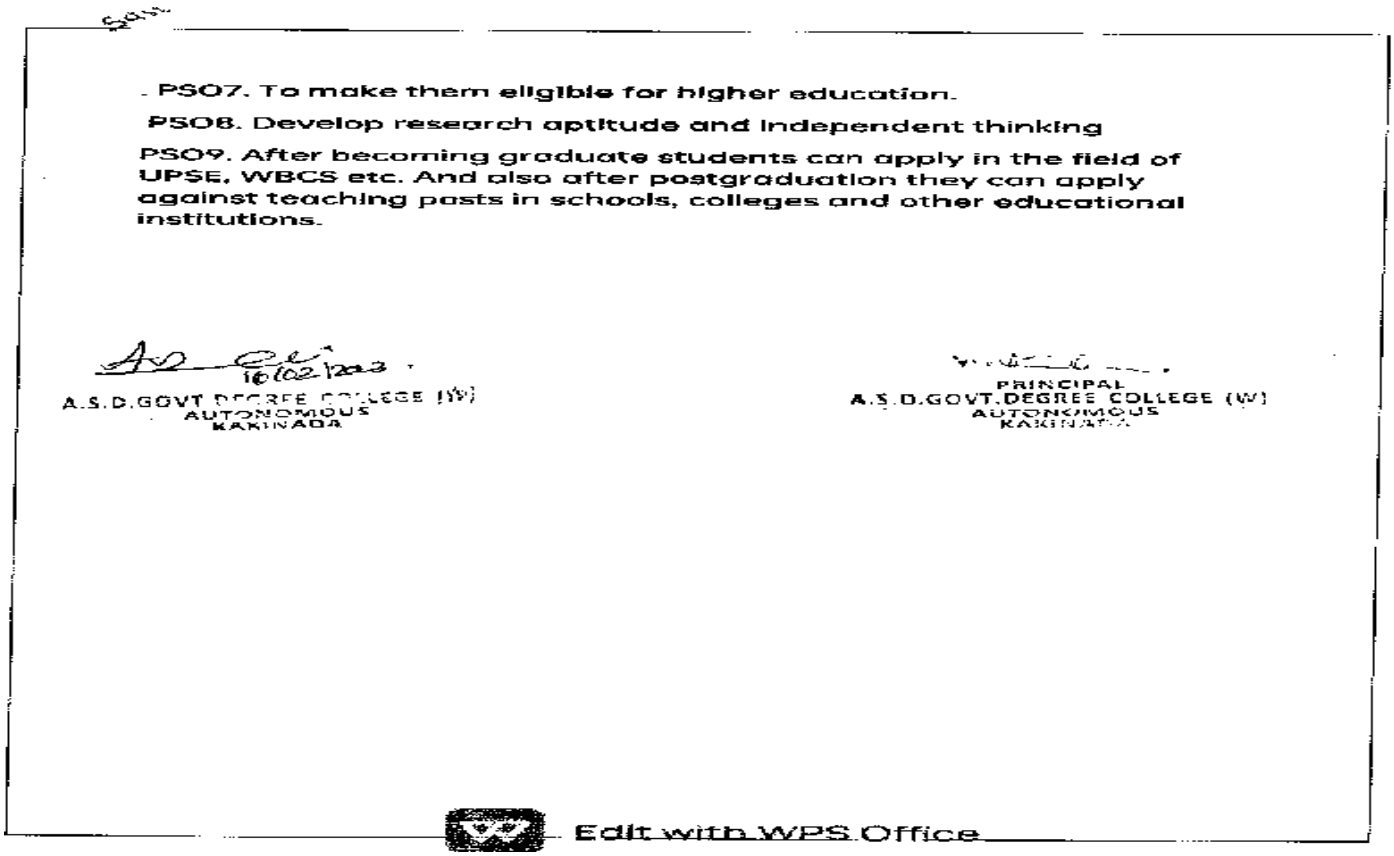
PSO5.Students will demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO6.Reasonable understanding of multi-disciplinary relevance of literature of Sanskrit like Veda, Philisophy, Grammar, Kavya, Smitisastra etc

. PSO7. To make them eligible for higher education.

PSO8. Develop research aptitude and independent thinking

PSO9. After becoming graduate students can apply in the field ofUPSE, WBCS etc. And also after postgraduation they can apply against teaching posts in schools, colleges and other educationalinstitutions.



A.S.D. Government Degree College for Women (A), Kakinada

DEPARTMENT OF COMMERCE

B.COM PROGRAMME

PROGRAMME OBJECTIVES:

In the context of today's globalized economy, it has become increasingly important to develop an interdisciplinary approach to understanding the contemporary business environment and our B.com program has been streamlined to reflect just that.

Its aim is to construct a strong foundational grounding in core subjects such as Accounting, Taxation including GST , Economics, Statistics, Auditing, Commercial Geography, Cost Accounting, Management Accounting along with a choice of "Retailing" or Financial Services studied in the 5th and 6th semesters.

The course is challenging yet, rewarding for students with high aspirations.

Programme Outcomes:

- To provide conceptual knowledge and application skills in the domain of commerce studies
- To sharpen students' analytical and decision making skills
- To provide a good foundation to students who plan to pursue professional courses like CA, ICWA, ICFA and MBA
- to develop entrepreneurship and managerial skills in students so as to enable them to establish and manage their business establishments effectively.
- To facilitate students with skills and abilities to become competent and competitive to be assured of good career and job placements.

PROGRAM SPECIFIC OBJECTIVES

- Students of this program will, in the fifth and sixth semesters, given a choice of over 10 electives including subjects like Marketing, Banking, Retailing etc., each of which will have skill based integration into the theoretical content that is offered.
- Student seminars, workshops and guest lectures are organized throughout semester, with guest speakers who have experience in the contemporary business.
- Bridge course in Accounting are conducted to enable students from other disciplines to integrate into the framework.
- Students are training in Tally to be on par with industry standards locally and in the global arena.
- Students connect meaningfully with the working world through regular field trips. These visits provide students a thorough understanding of business skills and cultural education to make a mark in the industry.
- Multiple social activities are conducted over three years to develop sense of community orientation.

➢ To bring global exposure, subjects like web technology, c-language, Object Oriented Programs, JAVA are introduced in B.Com Computers

DSC H 6.5 - Financial Services

Learning Out comes:

Students are able to know and learn-

- Role of Financial Services.
- Need and Importance , Types of Financial services
- Problems and challenges faced by Finacial Service Organizations.
- Role of Government and Non government agencies in development of rural markets and agriculture

DSC H 6.6 - Warehouse Management

Learning Out comes:

The students will be able-

- Understand different warehouse managing systems.
- Prepare and maintain inventories ,
- Understand the risk factors in ware house management and designs his own measures, for safety and security.
- Understand different warehousing practices .
- Solve problems that arise in warehouse management .

DSC H 6.6 - Marketing of Financial Services

Learning Out Comes:

Student able to learn

- Financial services meaning and their Role
- Pricing strategis adopted
- Marketing mix of financial services.

D.P.V.L.Devi
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PROGRAMME SPECIFIC OUTCOMES OF B.A STREAM COURSES

Programme	PROGRAMME SPECIFIC OUTCOMES (HEP)
BA (HEP)	PSO 1: To provide Students the knowledge to understand, and Analyze various Social issues and to formulate well organized discussions and arguments that state assumptions and hypothesis supported by evidence.
	PSO 2: To develop Critical Thinking skills among students so as to make them as good social scientists.
	PSO3: To promote values such as sustainable development, Optimum utilization of resources, patriotism, respecting the ideals of freedom struggle and responsible citizenship, political participation and socialization.
	PSO4: To provide life skills required for gainful employment by using domain knowledge such as Economic Service, Historians/ History writing and bureaucrats at various levels.
	PSO5: Enable students to acquire Skill needed to be dutiful and responsible citizen
Programme	**PROGRAMME SPECIFIC OUTCOMES (THP)**
BA (THP)	PSO 1: The student is able to gain knowledge on contemporary issues related to arts, humanity and language subjects.
	PSO 2: Understand the inter relation between history, Language, and political science and how they shaped the present state of Indian development.
	PSO 3: To study sections of religious works in literature which provide platform for the study of History and Economy of ancient periods and provide necessary inputs for the present and future generations.
	PSO 4: Providing Skills of careful perception, imagination and creativity from literature. Understanding Society, Public attitude, the techniques of administering them.
	PSO 5: To Provide the employability skills needed to succeed in the concerned field.
Programme	**PROGRAMME SPECIFIC OUTCOMES (HET)**
BA (HET)	PSO1: Contextualize tourism within broader Historical, environmental, and economic dimensions of society.
	PSO2: Demonstrate proficiency in historical knowledge of India and Modern World.
	PSO3: Understand the basic concepts of Economics, economic policies and Economic conditions of various historic periods, and their role in tourism and travel management for effective utilization of resources.
	PSO 4: Apply principles of sustainability to the practice of tourism in the local and global context.
	PSO 5 :To provide life skills required for gainful employment by using domain knowledge such as Economic Service, Historians, tourist guides, hotel management, event management and travel services

Lec in-charge
Dept of Political Science

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A.S.D. GOVT. DEGREE COLLEGE FOR WOMEN (A), KAKINADA

DEPARTMENT OF CHEMISTRY

PROGRAMME OUTCOMES (POs): BACHELOR OF SCIENCE

This document carries a complete record of the key features of the B.Sc. Chemistry Programme and the Learning Outcomes that an average B.Sc. student may acquire and accomplish all the designed Programme modules by proper exploitation of the learning resources provided. This programme envisioned as a testimonial for prospective students, present students, external examiners, teachers and support staff involved in delivering the designed programme in order to facilitate the overall development of the student for his future prospects.

During the course of B.Sc. Chemistry programme, the students acquire skills in handling scientific apparatus and equipment, planning and execution of laboratory experiments. The skills of scientific observations help in drawing logical and rational inferences during scientific experimentation. Able to analyze the given scientific data critically and draw the objective conclusions systematically. Comprehend how the advances in any science subject helps in the development of other science subjects in an integrative manner and vice-versa. It also provides how interdisciplinary approach helps in providing better solutions and new ideas for new problems. The programme also imbibe ethical, moral and social values and responsibilities in personal and social life to shape into highly civilized citizen. Acquire various communication skills such as reading, listening, speaking, etc., which will help in expressing ideas and views clearly and effectively.

B.Sc. – CHEMISTRY

(MPC/CBZ/CBMB/CZAQT)

THE MISSION

The mission of the B.Sc. Chemistry Program parallels the mission of the Institution in its vision and purpose. The vision of the Institution, "***Stree Vidhya Pravardhatam***" which means, 'Women Education shall Prosper'. The program is committed to achieve academic excellence and seeks to: Provide students to mastery in chemistry and to gain opportunities in industry and employment. This could be achieved through a broad-based education in chemistry (inorganic, organic, physical and applied aspects) in both the classroom setting and in the laboratory. The required B.Sc. research component of the degree provides an opportunity for the investigation of an original research at higher levels.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

(Chemistry with Mathematics, Physics, Botany, Zoology, Microbiology and Aquaculture Technology)

The B.Sc. – Chemistry programme entitles the major group combinations Viz., MPC (Mathematics, Physics, Chemistry), CBZ (Chemistry, Botany, Zoology), CBMB (Chemistry, Botany, Microbiology) and CZAQT (Chemistry, Zoology, Aquaculture technology). The students of MPC comprehends the basic concepts and applications of Mathematics, Physics and Chemistry and capable to perform the acquired knowledge in higher studies such as M.Sc. (Chemistry or Physics or Mathematics) and employment in multi-faceted fields as Technical officers in Industry, Defence, Scientific laboratories etc. The students of CBZ, CBMB and CZAQT gains knowledge in basic and applied concepts and practical skills in Chemistry; demonstrates the theoretical and practical skills of Flora and Fauna, and related Microbiological aspects. The market oriented programme CZAQT has ample opportunities in aquaculture fields and other disciplines.

PROGRAMME SPECIFIC LEARNING OUTCOMES

The programme contents include the core chemistry branches that covers the topics in Inorganic, Organic and Physical chemistry from Semester-I to Semester-VI with electives and clusters in three years of study under CBCS pattern. The Practical skill in the lab is a major portion in all the three-year chemistry courses keeping in view of the Academic progression and Industry demand.

GRADUATE ATTRIBUTES

The Chemistry Graduate Attributes are a set of core competencies which we expect students to achieve through the completion of B.Sc. – Chemistry programme from A.S.D. Govt. College for Women. The Graduate Attributes aims to acquire:

Disciplinary knowledge:

Expound in-depth conceptual understanding of the subject discipline and capable of understanding and command over other subject disciplines of undergraduate course.

Communication Skills:

Work efficiently in diverse platforms, capability to convey thoughts and ideas effectively and built up team work in and across the disciplinary boundaries; Communicate with others orally and in written form; built up confidence to share self-perceptions and views; demonstrate the competences of listening, reding and writing systematically and scientifically, and able to communicate complex information clearly and concisely to different groups.

Critical thinking:

Accomplish challenging tasks with interest; critical thinking and ingenuity basing on empirical proof; prepare coherent arguments following scientific approach to knowledge expansion.

Problem solving:

Capable to apply the acquired knowledge in exotic problem solving rather than stereotype curriculum content.

Analytical reasoning:

Ability to evaluate the logical positivism centered assumptions into rational thinking and draw scientific conclusions on the problem of study.

Research-related skills:

Habituated to regular reading of the literature updates on the programme disciplines and develop a sense of scientific inquiry in finding solutions to the existing problems either by hypothesis or by experimental demonstrations. The curriculum on practicals help in developing skills in handling experiments of higher research interest.

Cooperation/Team work:

Cooperation, coordination are important components of team work for the successful completion of any graduate programme. The group assignments as well as project assignments certainly inculcate the team work and togetherness in accomplishing the assignments successfully.

Scientific reasoning:

Ability to draw scientific reasoning by integrating the existing scientific principles for new problem of study through certain research methodological guiding principles. The interpretation on the obtained research results is done through the available literature reports and draw a plausible reasoning on the novelty of the accomplished work.

Reflective thinking:

A creative sense of thinking while encountering a new challenge in the process of learning.

Information/digital literacy:

Ability to browse search engines such as Google scholar, National Digital Library (NDL), Inflibnet, Libgen for online procurement of books and articles published in reputed journals. Use of Information Communication Technology (ICT) in delivering class seminars and departmental seminars, virtual class rooms, digital class rooms are added resource provisions.

Self-directed learning:

Project based learning directs self-thing and self-planning strategies to achieve the earmarked goals and objectives.

Lifelong learning:

Acquiring knowledge and implementing it on workplace is a lifelong process. It facilitates in developing life skills, including ‘learning how to learn’, which are necessary for participating in learning activities throughout life.

A.S.D. GOVT. DEGREE COLLEGE FOR WOMEN (A), KAKINADA
DEPARTMENT OF CHEMISTRY

PROGRAMME OUTCOMES (POs): BACHELOR OF SCIENCE

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CV.M. SARMA
M.Sc.,
DEPARTMENT OF CHEMISTRY
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KAKINADA-533 005

V. [illegible]
Principal
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AUTONOMOUS
KAKINADA

COURSE OUTCOMES (COs)

Course-level learning outcomes

Some examples of course-level learning outcomes relating to courses within B.Sc. Chemistry programme are indicated in the following sections:

FIRST YEAR

SEMESTER – I

CHE 1303 (Theory): Inorganic & Organic Chemistry - I

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

P-Block elements

- Describe and compare the general characteristics of 13, 14, 15, 16 and 17 groups elements, and synthesis and structure determination of Diborane and Higher Boranes, Boron-Nitrogen compounds; silanes, silicones, graphitic compounds; hydrazine, hydroxylamine, phosphazenes.

- Classify the oxides based on chemical behaviour and oxygen content of Inter halogen compounds and pseudo halogens.

- Generalize and Demonstrate the basic theory and applications of organometallic alkylic compounds of Li and Mg elements.

CHE 1303P (Practical): Laboratory Course - I

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

- Acquire the skill in the qualitative inorganic analysis of simple salts.
- Determine the quantitative amounts of metal ion in inorganic metal salts.

SEMESTER – II

CHE 2303 (Theory): Physical & General Chemistry – II

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Solid State:

- Classify and describe different crystal structures by applying the laws of crystallography.
- Acquire the knowledge of defects in crystal lattices.

Gaseous State:

- Explain the behaviour of ideal gas and real gas and causes for deviation of real gases from ideality;
- Describe the relation between critical constants and van der Waal's constants; temperature inversion - Joule Thomson effect and Liquefaction methods of gases.

Liquid State:

- Demonstrate the qualitative description of liquid crystals.
- Illustrate the applications of liquid crystals in LCD devices.

Solutions:

- Explain the importance of Raoult's law in ideally dilute solutions.
- Recognize the significance of Henry's law and non-ideal solutions.
- Define the Azeotropic mixtures and illustrate the examples of HCl-H_2O, ethanol-water systems and fractional distillation.
- Explain the phenomenon of partially miscible liquids with examples – phenol - water, trimethylamine-water, nicotine-water systems. Effect of impurity on consulate temperature.
- Describe the basic concept and applications of distribution law.

Colloids and Surface Chemistry:

- Define colloids and significance of colloids preparatory uses.
- Illustrates the theoretical concepts and applications of adsorption by studying Freundlich, Langmuir adsorption isotherms.

Chemical Bonding:

- Illustrate the basis for chemical bonding and bon formations through VSEPR theory, Valence bond theory, Molecular orbital theory – LCAO method.
- Construct the M.O. diagrams for homo-nuclear and hetero-nuclear diatomic molecules (N_2, O_2, CO and NO).

Stereochemistry of Carbon Compounds:

- Illustrate the molecular representations of Wedge, Fischer, Newman and Saw-Horse formulae.
- Define stereoisomerism, stereoisomers, enantiomers, diastereomers with examples.
- Define conformational and configurational isomerism with special reference to ethane and n-butane.
- Describe optical activity- wave nature of light.
- Differentiate between visible light and plane polarized light, and interaction with molecules.
- Differentiate between optical rotation and specific rotation.
- Definition of chirality and chiral molecule; criteria for absence of plane, center, and Sn axis of symmetry - asymmetric and dissymmetric molecules with examples.
- Definition of Chiral centers**;** calculating number of enantiomers and mesomers; CIP rules for R, S nomenclature.
- Definition of Diastereomers, geometrical isomerism with reference to alkenes - cis, trans and E, Z- configuration.

CHE 2303P (Practical): Laboratory Course – II

Qualitative Inorganic analysis and Inorganic Preparations:

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Qualitative Inorganic analysis:

- Demonstrate the skill of analyzing the Mixture salts containing two anions and two cations through group separation table.

Inorganic Preparations:

- Demonstrate the knowledge on preparation of metal salts required for the preparation of metal complexes using ligands maintaining under pH conditions.

SECOND YEAR

SEMESTER – III

CHE 3303 (Theory): Inorganic & Organic Chemistry – III

Inorganic Chemistry:

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Chemistry of d-block elements:

- Describe the general characteristics of d-block elements, stability on various oxidation states, their ability to form complexes, magnetic properties, catalytic properties and ability to form complexes.

Theories of bonding in metals:

- Explain the metallic properties and its limitations.
- Describes and differentiates between Valence bond theory, Free electron theory, limitations, Band theory, formation of bands, explanation of conductors, semiconductors and insulators.

Metal carbonyls and related compounds:

- Classify metal carbonyls, EAN rule, and determine the structures and shapes of metal carbonyls of V, Cr, Mn, Fe, Co and Ni.

Chemistry of f-block elements:

- Illustrates the chemistry of lanthanides - electronic structure, oxidation states, lanthanide contraction, consequences of lanthanide contraction, magnetic properties.
- Describe the chemistry of actinides - electronic configuration, oxidation states, actinide contraction, comparison of lanthanides and actinides.

Organic Chemistry:

Halogen compounds

- Discuss the stereochemistry and mechanisms for substitution and elimination reactions, and predict the effect of nucleophile, leaving group, and solvent on the relative rates of SN^1 versus SN^2 reactions, and E1 versus E2 reactions, as well as on the relative rates of substitution versus elimination.

Hydroxy compounds

- Nomenclate and classify hydroxy compounds, describe synthesis, properties and applications of alcohols, phenols, inter and intramolecular hydrogen bonding, able to present the reaction and mechanism of special reactions such as bromination, Kolbe-Schmidt reaction, Riemer-Tiemann reaction, Fries rearrangement, azocoupling, Pinacol-Pinacolone rearrangement.

Carbonyl compounds

- Classify and nomenclate aliphatic and aromatic carbonyl compounds, and draw the structure of the carbonyl group with bonding and hybridization.

- Write the synthesis and present of carbonyl group in aldehydes and ketones.
- Describe the nucleophilic addition reactions, base catalyzed named reactions, oxidation and reduction reactions of aldehydes and ketones.
- Perform the laboratory detection test for aldehydes and ketones.

Carboxylic acids and derivatives

- Demonstrate the classification and nomenclature of carboxylic acids, elucidate the preparatory methods, compare the relative acidities and demonstrate the physical and chemical properties with examples.

Active methylene compounds

- Discuss keto-enol tautomerism, Claisen condensation, Acid hydrolysis and ketonic hydrolysis of acetoacetic ester and malonic ester, synthetic application of mono, di and crotonic acids.

CHE 3303P (Practical): Laboratory Course -III

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Titrimetric analysis:

- Acquire the skill of preparing primary standards concentration, handling of apparatus, detection of end point etc.

Organic Functional Group Reactions:

- Identify the functional group present in the given organic compound by applying the concept of solubility followed by confirmatory tests.

SEMESTER – IV

CHE 4303 (Theory): Spectroscopy & Physical Chemistry – IV

Spectroscopy

- Explain how the absorption of energy by the molecules produces spectra which help in structure determination and identification of the molecules, and how this energy can initiate the photo-chemical reactions.

Physical Chemistry

Dilute solutions

- Explain the origin of Keq and its relation to fugacity and activity and apply these concepts to ideal and real solutions of electrolytes and non-electrolytes and to colligative properties.

Electrochemistry

- Apply the principles of electrochemistry to conductance, voltaic, and electrolytic systems.
- Provide a physical basis for Debye-Huckel theory.
- List the methods for arriving at a plausible mechanism and/or rate law based on kinetic information.
- Manipulate the gas laws to describe real and ideal gas behavior.
- Apply the steady-state hypothesis to obtain rate equations. Explain the basic principles of photochemical and radiation-chemical reactions.

Phase rule

- Explain how phase equilibria help in understanding the formation of various materials, allotropic forms of different substances

CHE 4303P (Practical): Laboratory Course - IV

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Physical Chemistry

- Determine the Critical Solution Temperature (CST), Conductance of strong acid vs strong base and weak acid vs strong base.

IR Spectral Analysis

- Identify the functional group by IR Spectral Analysis.

THIRD YEAR

SEMESTER – V

CHE 5301 (Theory): Inorganic, Organic & Physical Chemistry – V

Inorganic Chemistry:

Coordination Chemistry

Some examples of course-level learning outcomes that a student of this course is required to demonstrate are indicated below:

- Review the role played by transition metal complexes play in Inorganic Chemistry.
- Describe the structure and bonding theories, electronic and magnetic properties of the transition metal complexes and their kinetic studies.
- Explain the theories of bonding in coordination compounds and their experimental behaviour.
- Explain the CFSE & Isomerism of complexes with 4 and 6 coordination numbers.

Spectral and magnetic properties of metal complexes

- Recognize the types of magnetic behavior, spin-only formula and calculate the of magnetic moments through experimental determination.

Stability of metal complexes

- Explain the differences between Thermodynamic stability and kinetic stability, factors affecting the stability of metal complexes, and chelate effect.

Organic Chemistry:

Nitro hydrocarbons

Some examples of course-level learning outcomes that a student of this course is required to demonstrate are indicated below:

- Nomenclate and classify nitro hydrocarbons, preparation and explain the reactivity through some named reactions.

Nitrogen compounds

- Classify Amines into 1°, 2°, 3° Amines and Quaternary ammonium compounds.
- Present the preparative methods, basic character and separation by Hinsberg method.
- Discuss the electrophilic substitution of Aromatic amines – Bromination and Nitration, oxidation of aryl and Tertiary amines, Diazotization.

Physical Chemistry:

Thermodynamics

Some examples of course-level learning outcomes that a student of this course is required to demonstrate are indicated below:

- Apply the basic concepts of calculus to concepts in chemistry.
- Describe the Three Laws of Thermodynamics and their development.
- Use the Maxwell equations and other thermodynamic relations to compute thermodynamic quantities from thermodynamic data tables.
- Derive the relationships between thermodynamic quantities; Interpret phase diagrams and explain phase equilibria in terms of chemical potentials.
- Recognize the forces which drive the chemical reactions in forward direction and the concept of the interchange of energy in a system.

- Explain the use of electrical energy for initiating chemical reactions and also how chemical reactions can be utilized to produce electrical energy, and the basic principle used in the formation of cells and batteries.

CHE 5302P (Practical): Laboratory Course - V

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Organic Qualitative Analysis:

- Identify the functional group and derivatization of organic functional group in the given compound.

SEMESTER – V

CHE 5302 (Theory): Inorganic, Organic & Physical Chemistry – VI

Inorganic Chemistry:

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Reactivity of metal complexes:

- Discuss the importance of labile and inert complexes,
- Demonstrate the ligand substitution reactions - SN^1 and SN^2, substitution reactions of square planar complexes - Trans effect and applications of trans effect.

Bioinorganic chemistry:

- Recognize the significance of Essential elements and biological significance of Na, K, Mg, Ca, Fe, Co, Ni, Cu, Zn and Cl^-.
- Demonstrate the Metalloporphyrins – Structure and functions of hemoglobin, Myoglobin and Chlorophyll.

Physical Chemistry:
Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Chemical kinetics

- Define the rate of reaction, order and molecularity, demonstrate the rate laws.
- Derive the rate constants for first, second, third and zero order reactions and examples.

- Derive the for time half change, and
- Write the methods to determine the order of reactions.
- Discuss the effect of temperature on rate of reaction, Arrhenius equation, concept of activation energy.

Photochemistry

- Differentiate thermal and photochemical processes.
- Define and express the Laws of photochemistry- Grothus-Draper's law and Stark-Einstein's law of photochemical equivalence.
- Define quantum yield and photochemical reaction mechanism, qualitative description of fluorescence, phosphorescence, Photosensitized reactions- energy transfer processes

Organic Chemistry

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Heterocyclic Compounds

- Define and discuss the synthesis, reactivity and applications simple five membered ring compounds with one hetero atom, viz., Furan, Thiophene and Pyrrole.
- Demonstrate the structure, synthesis and basicity of Pyridine, aromaticity and comparison with pyrrole.

Carbohydrates

- Elucidate the structure of Glucose and Fructose
- Examine the evidence for 2 - ketohexose structure, cyclic structure for glucose and fructose, osazone formation from glucose and fructose.
- Define of anomers with examples.

- Demonstrate the interconversions of Monosaccharides.

Amino acids and proteins

- Define and classify amino acids into alpha, beta, and gamma amino acids.
- Write the general methods of synthesis of alpha amino acids
- Discuss physical properties, Zwitter ion and isoelectric point.

CHE 5302P (Practical): Laboratory Course - VI

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

- Acquire the skill of determining the rate constant for first order reaction.
- Determine the molecular status and partition coefficient of benzoic acid in Benzene and water.
- Determine the of surface tension and viscosity of different liquids
- Verify the Freundlich adsorption isotherm by studying acetic acid on animal charcoal.

Analytical Methods in Chemistry (Semester – VI):

An example of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

- Demonstrate up-to-date analytical skills required to deal with the detection, identification, separation, and estimation of atomic, molecular, and ionic species in various states.

IT Skills for Chemists (Semester–III/ IV/ V/ VI): Proposed

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

- Formulate a set of calculations that can address a relevant research question;
- Use one or several computer programs and extract useful information;
- Write a research paper that describes methods, results, and interpretation;
- Assess the meaning and validity of calculations that appear in the chemical literature.

TEACHING AND LEARNING STRATEGY

Scheduled Teaching and Learning Methods:

- Foundational bridge course
- Lectures (Conventional chalk and talk, ICT enabled and Invited Guest Lectures)
- E-learning through MANA TV / Virtual classes
- Seminars/ Debates/ Quiz/ Group discussions
- Tutorials/ Remedial classes
- Practical workshops (skill development)
- Guided laboratory work
- Problem classes
- Industrial trips
- Professional skills events (State level/ National Level seminars & workshops)

Project and Placement Learning Methods

- Curriculum based individual project work
- Group research project work
- Career guidance programme

ASSESSMENT STRATEGY

Assessment Methods:

- Internal Assessment – 25 M (Average of two mid semesters – 15 M; Student seminars – 05 M; Assignments – 05 M)
- External Assessment – 75 M (Semester end written examination)
- Practicals – 50 M
- Project work - 50 M (VI Sem: Oral presentations / Written reports/ Literature reports)

Academic Feedback Policy

- At the end of odd semesters on the IQAC designed format

ASSESSMENT STRUCTURE

Marking Scheme

The pass mark for each assessment is 40%. However, there is no minimum pass mark for internal assessment.

INDICATIVE MODULE LIST

Semester	Course code	Course Title	Hrs./ Week	Credits	Max. Marks		
					Int	Ext	Total
FIRST YEAR							
I	CHE 1303	INORGANIC & ORGANIC CHEMISTRY - I	4	3	25	75	100
	CHE 1303P	LABORATORY COURSE - I	2	2	0	50	50
II	CHE 2303	PHYSICAL & GENERAL CHEMISTRY - II	4	3	25	75	100
	CHE 2303P	LABORATORY COURSE - II	2	2	0	50	50
SECOND YEAR							
III	CHE 3303	INORGANIC & ORGANIC CHEMISTRY - III	4	3	25	75	100
	CHE 3303P	LABORATORY COURSE - III	2	2	0	50	50
IV	CHE 4303	SPECTROSCOPY & PHYSICAL CHEMISTRY - IV	4	3	25	75	100
	CHE 4303P	LABORATORY COURSE - IV	2	2	0	50	50
THIRD YEAR							
V	CHE 5301	INORGANIC, ORGANIC & PHYSICAL CHEMISTRY-V	4	3	25	75	100
	CHE 5301P	Laboratory Course - V	2	2	0	50	50

	CHE 5302	INORGANIC, ORGANIC & PHYSICAL CHEMISTRY-VI	4	3	25	75	100
	CHE 5302P	Laboratory Course - VI	2	2	0	50	50
VI *Any one Paper from VII A, B and C	VII (A)*	lective **:** ANALYTICAL METHODS IN STRY	4	3	25	75	100
		Practical - VII A	2	2	0	50	50
	VII (B)*	Elective: ENVIRONMENTAL CHEMISTRY	4	3	25	75	100
		Practical - VII B	2	2	0	50	50
	VII (C)*	Elective: GREEN CHEMISTRY	4	3	25	75	100
		Practical - VII C	2	2	0	50	50
** Any one cluster from VIII, A, B and C	VIII (A)**	**Cluster Electives - I :** POLYMER CHEMISTRY INSTRUMENTAL METHODSOF ANALYSIS ANALYSIS OF DRUGS,FOODS , DAIRY PRODUCTS & BIO-CHEMICAL ANALYSIS Practical Paper: VIII-A-1 Practical Paper: VIII-A-2 Practical Paper: VIII-A-3	 4 4 4 2 2 2	 3 3 3 2 2 2	 25 25 25 0 0 0	 75 75 75 50 50 50	 100 100 100 50 50 50
	VIII (B)**	**Cluster Electives - II :** VIII-B-1 FUEL CHEMISTRY AND BATTERIES VIII- B-2 INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE VIII-B-3 ANALYSIS OF APPLIED INDUSTRIAL PRODUCTS Practical Paper: VIII-B-1 Practical Paper: VIII-B-2 Practical Paper: VIII-B-3	 4 4 4 2 2 2	 3 3 3 2 2 2	 25 25 25 0 0 0	 75 75 75 50 50 50	 100 100 100 50 50 50

	VIII (C)**	**Cluster Electives - III ::** ORGANIC SPECTROSCOPIC TECHNIQUES ADVANCED ORGANIC REACTIONS PHARMACEUTICAL AND MEDICINAL CHEMISTRY Practical Paper: VIII-C-1 Practical Paper: VIII-C-2 Practical Paper: VIII-C-3	4 4 4 2 2 2	3 3 3 2 2 2	25 25 25 0 0 0	75 75 75 50 50 50	100 100 100 50 50 50
		TOTAL	60	50	250	1250	1500

	VIII (C)**	**Cluster Electives - III ::** VIII-C-1 ORGANIC SPECTROSCOPIC TECHNIQUES VIII-C-2 ADVANCED ORGANIC REACTIONS VIII-C-3 PHARMACEUTICAL AND MEDICINAL CHEMISTRY Practical Paper: VIII-C-1 Practical Paper: VIII-C-2 Practical Paper: VIII-C-3	4 4 4 2 2 2	3 3 3 2 2 2	25 25 25 0 0 0	75 75 75 50 50 50	100 100 100 50 50 50
		TOTAL	60	50	250	1250	1500

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CV-M. SARMA

DEPARTMENT OF CHEMISTRY

Program objectives, Outcomes, Co-curricular and Assessment methods

1. Aim and objectives of UG program BSc Microbiology:

The programme BSc Microbiology introduces students to the vast array of microbes viz bacteria, archaea, viruses, fungi and protozoa around us, their diversity and applications. The programme has a strong practical emphasis, providing students with the basic laboratory skills required for a career in either applied or research microbiology.

Program outcomes:

PO1: Graduates will acquire adequate knowledge and leadership skills for a successful career
PO2: Graduates will be able to analyze and solve biology based problems.

PO3: Graduates will cooperate with each other to solve problems with creative thinking.

PO4: Graduates will acquire practical skills- plan & execute experimental techniques independently as well as to analyse & interpret data.

PO5: Graduates will effectively be able to manage resources & time.

PO6: Graduates will be able to learn independently and develop critical thinking.

PO7: Graduates will accomplish ability to communicate effectively and able to understand ethical responsibility.PO8: Graduates will get adequate knowledge to use information & communication technology.

PO9: Graduates will carry on to learn and to adapt in a world of constantly evolving technology.

2. Program Specific outcomes:

Microbiology students who graduate with a Bachelor of Science with Microbiology will

PSO1: Acquire knowledge on fundamentals of Microbiology

PSO2: Understand details of bacterial, fungal, algal and viral morphology and physiology.
PSO3: Competently be able to cultivate and characterize bacterial and fungal forms.

PSO4: Grasp the fundamental concepts of immunity and the contribution of organs and cells in the development of immune response.

PSO5: Gain insight into the various aspects of microbial genetics.

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KAKINADA

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AUTONOMOUS
KAKINADA

A.S.D.GOVT DEGREE COLLEGE FOR WOMEN (A) KAKINADA
DEPARTMENT OF PHYSICS

B.Sc (M.P.Cs) PROGRAM OUTCOMES

By the time of Graduation the B.sc(MPCS) program enables students to attain:

- An ability to apply knowledge of computing,physics and mathematics appropriate to the discipline.
- An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.
- An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.
- Able to Solve problems creatively in mathematics and computer science, physics, and their applications.
- Communicate mathematics and principles of computer science clearly and logically to others, both orally and in writing.
- Attain the knowledge of the elements of single variable calculus, discrete mathematics, linear algebra, probability, and introductory differential calculus of a function of several variables.
- Critique and find errors in proofs, mathematical arguments and computer programs, physics solutions and solutions of problems given by others.

B.Sc (M.P.C) PROGRAM OUTCOMES

By the time of Graduation the B.sc (MPC) program enables students to attain:

- An ability to apply knowledge of mathematics, physics and chemistry appropriate to the discipline.
- An ability to understand the symmetry of crystals ,compression factors,stoichiometric and non-stoichiometric defects, chemical bonding etc.,
- The students would be now aware of materials and their uses too.
- The impurities present in raw water, problems associated with them and how to avoid them are understood.
- Appilications of liquid crystals as LCD devices are known to them.
- They go through certain topics like:d-block elements,f-block elements,Halogen compounds, Hydroxy compounds,Phenols,Carbonyl compounds,Carboxylic acids and derivatives.

- Also students will gain knowledge about Spectrophotometry,Electronic spectroscopy,Infrared spectroscopy,proton magnetic resonance spectroscopy,Dilute solutions,Electrochemistry etc.

M.P.C and M.P.CS PROGRAME SPECIFIC OUTCOMES (PSO)

Programme Specific Outcomes (PSO)

MPC:

1. To Build firm foundation on various basic concepts in Mathematics, Physics and Chemistry.
2. To apply mathematical knowledge to solve numerical problems in Physics and Chemistry.
3. To understand inter relationship among the three subjects. Mathematics, Physics and Chemistry.
4. To understand the laboratory protocols with regard to safe handling of chemicals, glassware and equipment.
5. To develop skills in tabulation, drawing pictures and calculations in both theory and practicals.
6. To create opportunities to pursue Higher Education in multidisciplinary areas such as Nanotechnology, Solid state, Nuclear Science.

MPCS:

1. To understand the importance of Mathematics in learning Physics and Computer Science and vice – versa.
2. To understand the inter – relationship between mathematics and computer science with regard to algorithms, computations and excel calculations, data presentation and data analysis.
3. To understand the inter – relationship between Physics and Computer Science in the design and architecture of computers.
4. To apply the knowledge of Mathematics and Computer Science in solving problems in real life situations.
5. To create employment opportunities in interdisciplinary areas such as data analyst, statistician, computer – assisted instrument operator etc.

LECTURER IN-CHARGE
Department of Physics
S. Govt. Degree College for Women
KAKINADA.

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KAKINADA

A.S.D. Govt. Degree College for Women (A), Kakinada

Department of Home Science

Program Specific Outcomes:

Towards the end of the program, students will be able to:

- promote knowledge in Nutrition and Food Science, develop leadership and critical thinking skills necessary for achievement of excellence in the profession of Food & Nutrition
- Demonstrate how the ecological and systems theory framework explains variations in individual and family development across the life span
- Strengthen knowledge on concepts related to the Textiles and Fashion, social and psychological aspects of textiles and apparel
- Develop knowledge on family dynamics, identify a variety of resources available to the families, describe the bidirectional relationship between resources and family functioning
  , effect of social institutions on family resources and resource management
- Gain knowledge in the areas of Extension and the transfer of knowledge to the target group

Program Outcomes:

- Strengthen skills and potentials of students through scientific principles ,knowledge andExperience required for optimum living
- Development of entrepreneurial skills at various levels
- Understand and appreciate the role of interdisciplinary sciences in the development and well
  being of individuals ,families and communities
- Learns about the sciences and technologies that enhance quality of life
- Acquires professional and entrepreneurial skills for economic empowerment of the students
  in particular and community in general
- To develop professional skills in Food, Nutrition, Textiles, Housing, Product developmentCommunication technologies and Human Development and Transfer the knowledge and technologies from laboratory to community

3. Understand the techniques of imparting parent education programme.
4. Develop educational materials and apply skills to plan, conduct and organize parent education programmes in community and PTA meetings in school.

SEMESTER-V

Course 20 A: INTERIOR DESIGN AND DECORATION

I. Learning Outcomes

At the end of the course the students will be able to:

1. Remember and explain in a systematic way the difference between interior design and decoration
2. Understand and use the elements and principles to create beautiful designs & interiors
3. Critically explain the nuances of Indian interior design work in prescribed areas under co-curricular activity
4. Application of the principles and elements in creating beautiful landscape
5. Acquire computer skills to be able to render the planned interiors using AutoCAD

Course 21 A : TEXTILE DESIGN

I. Learning Outcomes

At the end of the course the students will be able to:

1. Remember and explain in a systematic way the Principles of design, elements, classification and its importance in textile design.
2. Understand the different types of fibers and fabrics.
3. Analyse the structure of loom and classification of weaves.
4. Identify the types of weaves (Basic weaves and decorative weaves).
5. Critically explain & judge: The estimation of designs suitable for dyeing and printing, dye paste requirement, and also estimation of suitability of material.

G. Anitha
for Lecturer in H.Sc. Science
A.S.D. Govt. DEGREE COLLEGE (W)
KAKINADA

V. Anuradha
PRINCIPAL
A.S.D.GOVT.DEGREE COLLEGE (W)
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PROGRAMME SPECIFIC OUTCOMES OF B.A STREAM COURSES

Programme	PROGRAMME SPECIFIC OUTCOMES (HEP)
BA (HEP)	PSO 1: To provide Students the knowledge to understand, and Analyze various Social issues and to formulate well organized discussions and arguments that state assumptions and hypothesis supported by evidence.
	PSO 2: To develop Critical Thinking skills among students so as to make them as good social scientists.
	PSO3: To promote values such as sustainable development, Optimum utilization of resources, patriotism, respecting the ideals of freedom struggle and responsible citizenship, political participation and socialization.
	PSO4: To provide life skills required for gainful employment by using domain knowledge such as Economic Service, Historians/ History writing and bureaucrats at various levels.
	PSO5: Enable students to acquire Skill needed to be dutiful and responsible citizen
Programme	**PROGRAMME SPECIFIC OUTCOMES (THP)**
BA (THP)	PSO 1: The student is able to gain knowledge on contemporary issues related to arts, humanity and language subjects.
	PSO 2: Understand the inter relation between history, Language, and political science and how they shaped the present state of Indian development.
	PSO 3: To study sections of religious works in literature which provide platform for the study of History and Economy of ancient periods and provide necessary inputs for the present and future generations.
	PSO 4: Providing Skills of careful perception, imagination and creativity from literature. Understanding Society, Public attitude, the techniques of administering them.
	PSO 5: To Provide the employability skills needed to succeed in the concerned field.
Programme	**PROGRAMME SPECIFIC OUTCOMES (HET)**
BA (HET)	PSO1: Contextualize tourism within broader Historical, environmental, and economic dimensions of society.
	PSO2: Demonstrate proficiency in historical knowledge of India and Modern World.
	PSO3: Understand the basic concepts of Economics, economic policies and Economic conditions of various historic periods, and their role in tourism and travel management for effective utilization of resources.
	PSO 4: Apply principles of sustainability to the practice of tourism in the local and global context.
	PSO 5 :To provide life skills required for gainful employment by using domain knowledge such as Economic Service, Historians, tourist guides, hotel management, event management and travel services

Lec in-charge,
Dept. of History

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travelogues, through the lectures organised on the travelogue of Amrit Lal Bengar. .

PO: 6 Art of analyzing 'Sanskritik and Lalit Nibandh Kala: 'Lalit and Sanskritik Nidandh' are considered to be such art forms which are difficult to understand due to the symbols used by the writers to express the deeper realities in their writings. The Students gained knowledge to analyze these art forms through the guest lectures organised on the essays like 'Kutaj' and 'Mere Ram Ki Mukut Bheeg Raha hai'.

PO: 7 Environmental consciousness: The students gained knowledge about the concept of 'Paryavaran' and its role in making human life healthy, by paper presentation and group discussion sessions on 'Paryavaran Sanrakshan' organised in vernacular Hindi class.

PO : 8 Scientific consciousness : Students gained knowledge about this reality that how the outlook of people towards 'Dhumketu' has changed with time and how the new inventions and discoveries brings new light to the world, by the paper presentation and group discussion sessions on 'Dhumketu' organized in vernacular Hindi class.

Signature of H.O.D

Principal's Signature

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AUTONOMOUS
KAKINADA

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Signature of H.O.D

Principal's Signature

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Programme Specific Outcome:

PSO: 1 Understanding the relation between society and literature and analyse the role played by Hindi literature in past and present.

PSO: 2 Understanding the strategy of converting worship into the movement of struggle for cultural freedom.

PSO: 3 developing skill of writing official letters in functional Hindi.

PSO: 4 developing philosophy of life inspiring by the vision of eminent writers.

PSO: 5 Identifying the nature and character of person through his actions.

PSO: 6 gaining socio cultural consciousness.

PSO: 7 Exploring, analyzing and enriching the self-knowledge.

Signature of HOD

Principal's Signature

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Program Outcomes

PO:1 Consciousness about the issues related to women: The students got scope to gain knowledge and share their ideas about the forms of exploitation faced by women in feudalistic system and also learned about its long drawn effects in society, through the lectures followed by group discussion sessions on women issues, held in the department.

PO: 2 Relation between stories and society: The student gained knowledge about the relation between the socio cultural condition of a society and the short stories through the guest lectures organized on 'Hindi Kahani Ki Vikas Yatra', where the history of development of Hindi short stories was discussed in relation with the socio cultural impact registered in Hindi stories in different period

PO:3 Concept of various forms of prose : Students gained knowledge about the various forms of prose like 'Rekhachitra, Nibandh, Sanssmaran, Vyangya, Bhashan, Natak, Upanyas from the guest lecture organised on 'Hindi Ki Vividh Gadya Vidhayen'.

PO:4 Knowledge about reality of middle class: The writers like Premchand, Nagarjun made an effort to highlight the mentality of middle class by depicting the actions and behaviour of the persons of middle class in their writings. The students got scope to gain knowledge about the reality of middle class expressed in the writings of Premchand through lectures followed by group discussion sessions.

PO: 5 Cultural consciousnesses and the concept of travelogue: The students gained knowledge about the concept of travelogue and realized the role played by cultural consciousness in writing

ASD Government Degree College for Women (AUTONOMOUS)

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KAKINADA

BA PROGRAMME – Under CBCS, Syllabus 2021-2022

Programme Outcomes Relating to B.A Economics (POs) :

The Every Degree Programme listed by the University

Students of all undergraduate general degree programs at the time of graduation will be able to

PO1. Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

PO2. Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

PO3. Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.

PO4. Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO5. Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

PO6. Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

PO7. Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes(PSOs) Relating to the BA Degree in Economics

PSO1: Understand the behaviour of Indian and World economy,

PSO2: Analyse macroeconomic policies including fiscal and monetary policies of India

PSO3: Determine economic variables including inflation, unemployment, poverty, GDP, Balance of Payments using statistical methods

PSO4: Understand the behaviour of financial and money markets and perform cost-benefit analysis for making investment decisions.

PSO5: Perform Cost-Benefit Analysis for Consumer behaviour.

PSO6: Analyse Historical and Current Events from an Economic Perception.

Head of the Department
Department of Economics

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KAKINADA

Department of Economics

Course Outcomes 2021-22

SEMESTER-I, COURSE-I MICRO ECONOMIC ANALYSIS No. of Credits: 4

At the end of the course, the student is expected to demonstrate the following cognitive abilities and psychomotor skills.

1. Remembers and states in a systematic way (Knowledge)
   The differences between microeconomic analysis and macroeconomic analysis Various laws and principles of microeconomic theory under consumption.
2. Explains (understanding)
   Various terms and concepts relating to microeconomic analysis with the help of examples of real life Consumer's equilibrium and consumer's surplus using indifference curve analysis.
3. Various laws and principles of consumption, production, and income distribution
   Determination of price and output discriminating different market conditions in short term and long term

1. Critically examines using data and figures (analysis and evaluation)

i. Various laws and principles of microeconomic analysis and market conditions Application of the concept of demand elasticity and its relation with Average and Marginal Revenue.The relationship between average and marginal cost/revenue both in long term and

2. Draws critical diagrams and graphs to explain and examine the application of various laws and principles of microeconomic analysis

Semester-II, Course-2 MACRO ECONOMIC ANALYSIS No. Of Credits: 4

At the end of the course, the student is expected to demonstrate the following cognitive abilities and psychomotor skills.

1. Remembers and states in a systematic way (knowledge)

   Various concepts, definitions ,laws and principles of macroeconomic theory with reference to income, employment, money, banking and finance

2. Explains (understanding)

i. The difference between various concepts and components of national income with illustrations

and methods of measuring national income. Various terms, concepts, laws and principles, theories relating to income, employment, consumption, investment, money, price-level and phases of trade cycles. Functions of commercial banks and central bank, creation and control of credit

3. Critically examines using data and figures (analysis and evaluation)

i. In order to understand the interrelationship between various components of national income The theories of macroeconomics with reference to their assumptions, implications and applicability. Empirical evidences of Consumption and Investment Functions and factors Influencing them

4. Draws critical formulae, diagrams and graphs.

Consumption and investment functions; concepts of multiplier and accelerator. Price indices, inflation and trade cycles

III SEMESTER, DEVELOPMENT ECONOMICS No. Of Credits: 4

At the end of the course, the student is expected to demonstrate the following cognitiveabilities and psychomotor skills.

1. Remembers and states in a systematic way(Knowledge): Various concepts and definitions and indicators relating to economic growth and Developmentincluding recent developments
2. Explains(understanding):
   a) Distinction between growth and development with examples
   b) Characteristics of developing and developing economies and distinction between the two
   c) factors contributing to development, Choice of Techniques and a few important models and strategies of growth
3. Critically examines using data and figures (analysis and evaluation)
   a. the theoretical aspects of a few models and strategies of economic growth
   b. role and importance of various financial and other institutions in the context ofIndia's economic development
4. Draws critical diagrams and graphs.
   a. to explain the models and strategies
   b. to highlight empirical evidences to support the strategies

IV Semester ECONOMIC DEVELOPMENT-INDIA & ANDHRA PRADESH No of Credits-04

At the end of the course, the student is expected to demonstrate the following cognitiveabilities and psychomotor skills.

1. Remembers and states in a systematic way (Knowledge)

a. leading issues of Indian economic development with reference to potential forgrowth, obstacles and policy responses

b. Objectives, outlays and achievements of economic plans and growth strategies

2. Explains(understanding)

a. Available Resources, demographic issues, general problems of poverty andunemployment and relevant policies.

b. Sector specific problems, remedial policies and their effectiveness relating to Agriculture and Industrial Sectors of Indian and AP economy and infrastructureissues of AP economy

c. Indian Tax system, recent changes, issues of public expenditure and public debt,recent finance commissions and devolution of funds

d. Major issues of economic development of Andhra Pradesh after bifurcation and Central assistance

3. Critically examines using data and figures (analysis and evaluation)

a. Leading issues of current importance relating to India and AP economy, major policies and programmes

b. Covid– 19 and its impact on Indian economy

4. Uses official statistical data and reports including tables and graphs

a. To explain the achievements of Indian economy with reference to the objectives of Planning and policy and make critical evaluation.

IV Semester, <u>STATISTICAL METHODS FOR ECONOMICS</u> No of Credits-04

At the end of the course, the student is expected to demonstrate the following cognitive abilities and psychomotor skills.

1. Remembers and states in a systematic way(Knowledge)

a. the definitions, terms and their meaning relating to statistical methods

b. various formulae used to measure central tendency, correlation regression and Indices

2. Explains(understanding)

a. Importance of statistics and its applications

b. The method of classification of primary data

c. Uses of Correlation and Regression analysis, time series and index numbers in economicanalysis

3. Analyses and solves using given data and information (analysis and evaluation)

a. different kinds of statistical problems using various principles and formulae relating tocentral

tendency, correlation, regression, time series and indices

b.to interpret data and suggest solutions to economic problems

4. Draws critical diagrams and graphs.

a. Histogram, Frequency Polygon and Frequency Curve

b. More than cumulative and less than cumulative frequency curves (Ogive)

c. Different types of Bar diagrams

d. Pie Diagram and its uses in economic analysis

V Semester ECONOMIC DEVELOPMENT AND INDIAN ECONOMY No of Credits-04

At the end of the course, the student is expected to demonstrate the following cognitive abilities and psychomotor skills.

1. Remembers and states in a systematic way (Knowledge)

i. leading issues of Indian economic development with reference to potential for growth, obstacles and policy responses. Objectives, outlays and achievements of economic plans and growth strategies

2. Explains (understanding)

- Available Resources, demographic issues, general problems of poverty and unemployment and relevant policies.
- Sector specific problems, remedial policies and their effectiveness relating to Agriculture and Industrial Sectors of Indian and AP economy and infrastructure issues of AP economy.
- Indian Tax system, recent changes, issues of public expenditure and public debt, recent finance commissions and devolution of funds.
- Major issues of economic development of Andhra Pradesh after bifurcation and Central assistance

3. Critically examines using data and figures (analysis and evaluation)

- Leading issues of current importance relating to India and AP economy, major policies and programmes.
- Covid– 19 and its impact on Indian economy

4. Uses official statistical data and reports including tables and graphs

i. To explain the achievements of Indian economy with reference to the objectives of planning and policy and make critical evaluation.

V Semester **INDIAN AND ANDHRA PRADESH ECONOMY** **No of Credits:04**

At the end of the course, the student is expected to demonstrate the following cognitive abilities and psychomotor skills.

- Understands the importance of agriculture in Indian Economy.
- Understands agriculture price policy, crop insurance and food security.
- Acquire basic understanding on various industrial policies in India.
- Understands the role of FDI in economic development.
- Describes the service sector in India.
- Analyses the growth trends in various Five year plans in India
- Understands various Economics Indicators of Andhra Pradesh GSDP
- Understands the role of SEZ in balanced regional Development

VI Semester **AGRICUTURAL ECONOMICS (Elective)** **No of Credits-04**

At the end of the course, the student is expected to demonstrate the following cognitive abilities and psychomotor skills.

- Understands the factors affecting the agricultural development.
- Analyses the interdependence between agriculture and industry.
- Understands the input-output relations in farm production.
- Understands the agrarian reforms and their role in farm production
- Describes the relation between farm size and productivity in A.P
- Understands the impact of Green revolution on Indian as well as AP economy
- Understands the policy controls and regulations relating to agro-industries.

VI Semester AGRIBUSINESS ENVIRONMENT IN ANDHRA PRADESH No of Credits-04

(Cluster Elective-1)

At the end of the course, the student is expected to demonstrate the following cognitive abilities and psychomotor skills.

- Understands Performance of Agricultural in AP
- Understands the backward and forward linkages of agriculture with the rest of the economy
- Understands the agriculture credit, input market and product markets.
- Understands cropping and livestock sectors and its inter-linkages

- Understands the performance, export and imports of agricultural products.
- Understands various legislations relating to agriculture marketing in India.

VI Semester, AGRICULTURAL OUTPUT MARKETING No of Credits-04

(Cluster Elective-2)

At the end of the course, the student is expected to demonstrate the following cognitive abilities and psychomotor skills.

- Understands functioning of agricultural marketing organizations
- Understands the marketing of various agricultural commodities
- Understands the problems and challenges in agriculture marketing
- Understands the state intervention in agriculture marketing
- Understands inter-regional and international trade in agriculture
- Understands WTO and Indian Agriculture with special reference to Andhra Pradesh.

VI Semester, PROJECT WORK

- Students attains practical and field Experience on Agricultural Marketing Activities.
- Attains the field experience in respective fields
- Improves the skill of report writing
- Improves the presentation skills

PRINCIPAL
A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

Head of the Department
Department of Economics.

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (A)
DEPARTMENT OF COMPUTER SCIENCE

PROGRAM: B.Com(CA)

Programme Specific Outcome(PSO)

After completion of Bachelor of Commerce in Computer Applications (B.Com-CA) Programme students are able to:

PSO1: Gain foundation and incremental knowledge in different areas of Commerce.

PSO2: Develop basic understanding of conceptual and functional knowledge of software commonly used in academic and professional environments.

PSO3: Provide technical support and computing leverages for improved communication in Office and Business management.

Course Outcomes

Paper : I

Course: Information Technology

Course Outcomes:

1. Understand a vocabulary of key terms related to the computer and able to identify the components of a personal computer system.
2. Understanding the working principles of input and output devices and basics of different types of memories.
3. To perform documentation using MS Word
4. To enter and manipulate data in Excel
5. To perform presentation skills
6. To manage databases using MS Access

Paper : II

Course:Information Technology Lab

Course Outcomes:

At the end of the course student will be able to

1. to perform documentation using MS Word
2. to enter and manipulate data in Excel
3. to perform presentation skills
4. to manage databases using MS Access

Paper : II

Course: E-COMMERCE AND WEB DESIGNING

Course Outcomes:

1. Understand the foundations and importance of E-commerce
2. Define Internet trading relationships including Business to Consumer, Business to Business, Intra-organizational
3. Describe the infrastructure for E-commerce
4. Discuss legal issues and privacy in E-Commerce
5. Understand the principles of creating an effective web page, including an in-depth consideration of information architecture

Course: E-COMMERCE AND WEB DESIGNING LAB

Course Outcomes:

At the end of the course the student will be able to

1. Make use of HTML tags to design Web pages.
2. Develop dynamic Web pages

Paper : III

Course:Programming with C & C++

Course Outcomes:

1. Develop programming skills
2. Declaration of variables and constants use of operators and expressions
3. Learn the syntax and semantics of programming language
4. Be familiar with programming environment of C and C++
5. Ability to work with textual information (characters and strings) & arrays
6. Exploring C programming and Design C++ classes for code reuse.

Course:Programming with C & C++ Lab

Course Outcomes:

At the end of the course the student will be able to

1. Implement programs using fundamental features of C Language.
2. Solve problems with the use of loops, decision making statements and functions.
3. Implement programs performing various Operations on Arrays
4. Implement programs using constructor.
5. Implement programs to implement inheritance
6. Implement programs for operator overloading

Paper : IV

Course: Database Management Systems

Course Outcomes:

1. Understand the role of a database management system in an organization.
2. Understand basic database concepts, including the structure and operation of the relational data model.
3. Understand and successfully apply logical database design principles, including E-R diagrams and database normalization
4. To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS.
5. Perform PL/SQL programming using concept of Cursor Management, Error Handling, Packages

Course: Database Management Systems Lab

Course Outcomes:

At the end of the course the student will be able to

1. Design database for the real world scenarios
2. Make use of SQL and PL/SQL to efficiently retrieve and maintain relational database.

Paper : 6A

Course: BIG DATA ANALYTICS USING R

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

1. Understand data and classification of digital data.
2. Understand Big Data Analytics.
3. Load data in to R.
4. Organize data in the form of R objects and manipulate them as needed.
5. Perform analytics using R programming.

Paper : 7A

Course: DATA SCIENCE USING PYTHON

Course Outcomes:

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

1. Understand basic concepts of data science
2. Understand why python is a useful scripting language for developers.
3. Use standard programming constructs like selection and repetition.
4. Use aggregated data (list, tuple, and dictionary).
5. Implement functions and modules.

N.N.S. Eswari 16/2/23
Dept. Incharge

V. Annapurna Lakshmi
PRINCIPAL

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A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (A)
DEPARTMENT OF COMPUTER SCIENCE

PROGRAM:B.Sc(MPCs)
PROGRAM SPECIFIC OUTCOMES

A graduate with a B.Sc. in Computer Science will have the ability to

PSO1. Demonstrate mastery of Computer Science in the following core knowledge areas
- Data Structures and Programming Languages
- Databases, Software Engineering and Development
- Web Designing and Web Application development

PSO2. Apply problem-solving skills and the knowledge of computer science to solve real world problems.

PSO3. Develop technical project reports.

COURSE OUTCOMES

Paper : I
Course: PROBLEM SOLVING IN C
Course Outcomes:

At the end of the course the student will be able to

1. Understand the fundamentals of C programming.
2. Make use of loops, decision making statements and functions to solve the problem.
3. Implement different Operations on Arrays.
4. Understand Pointers, Structures and Unions.
5. Implement File Operations for a given application using C file handling functions.

PROBLEM SOLVING IN C Lab
Course Outcomes:

At the end of the course the student will be able to

1. Implement programs using fundamental features of C Language.
2. Solve problems with the use of loops, decision making statements and functions.
3. Implement programs performing various Operations on Arrays.

Paper : II
Course: DATA STRUCTURES USING C
Course Outcomes:

At the end of the course the student will be able to

1. Understand fundamental concepts of Data structures and to design Linked lists.
2. Implement linear data structures stacks, queues.
3. Design non-linear data structures like trees, graphs and implement their operations.
4. Compare and Contrast different searching and sorting techniques.

5. Have knowledge on Data Structures basic operations like insert, delete, search, update and traversal
6. Design and develop programs using various data structures

Course: DATA STRUCTURES USING C LAB

Course Outcomes:

At the end of the course the student will be able to

1. Implement various operations on arrays
2. Implement Linked list and Perform operations on it.
3. Make use of arrays and linked lists to implement Stack and Queues.
4. Implement various traversals on Trees and Graphs.
5. Implement various shortest path algorithms.
6. Implement various searching and sorting techniques.

Paper : III

Course: DATA BASE MANAGEMENT SYSTEM

Course Outcomes:

At the end of the course the student will be able to

1. Understand DBMS concepts, data models and Architecture.
2. Understand ER concepts and ER mapping to relational model
3. Improve the database design by normalization.
4. Make use of SQL to retrieve and maintain relational database.
5. Illustrate various constructs in PL/SQL.

Course: DATA BASE MANAGEMENT SYSTEMS LAB

Course Outcomes:

At the end of the course the student will be able to

1. Design database and ER diagrams for the real world scenarios
2. Understand ER concepts and ER mapping to relational model
3. Make use of SQL and PL/SQL to efficiently retrieve and maintain relational database.

Paper : IV

Course: OBJECT ORIENTED PROGRAMMING THROUGH JAVA

Course Outcomes:

At the end of the course the student will be able to

1. Understand and Apply Object Oriented features and understand the basics of Java.
2. Develop problem-solving and programming skills using OOP concepts.
3. Apply the concepts of inheritance and to create arrays, strings.
4. Able to demonstrate Exception Handling and Multithreading.
5. Develop efficient Java applets and applications using OOP concepts.

Course: OBJECT ORIENTED PROGRAMMING USING JAVA LAB

At the end of the course the student will be able to

1. Apply OOP concepts to solve real time problems.
2. Make use of class, inheritance, interface and packages to develop solutions for complex problems.
3. Build java applications using Exception handling and Threads.

Paper : V

Course: OPERATING SYSTEMS

Course Outcomes:

At the end of the course the student will be able to

1. Interpret the basic structure of OS and architectural components.
2. Compare and contrast various Process scheduling algorithms.
3. Analyze various mechanisms of Synchronization and the principles of deadlock.
4. Make use of paging and segmentation in Memory management.
5. Discuss the issues related to file system interface, implementation and disk management.

Course: OPERATING SYSTEMS LAB USING C/JAVA

Course Outcomes:

At the end of the course the student will be able to

1. Implement Process Scheduling and Page Replacement Algorithms.
2. Implement Various File Organization schemes
3. Implement Deadlock Avoidance and prevention algorithms

Paper : 6A

Course : Web Interface Designing Technologies

1. Understand and appreciate the web architecture and services.
2. Gain knowledge about various components of a website.
3. Demonstrate skills regarding creation of a static website and an interface to dynamic website.
4. Learn how to install word press and gain the knowledge of installing various plugins to use in their websites.

Course :Web Interface Designing Technologies Lab

Course Outcomes:

On successful completion of this practical course, student shall be able to:

1. Create a basic website with the help of HTML and CSS.
2. Acquire the skill of installing word press and various plugins of Word press.
3. Create a static website with the help of Word press.
4. Create an interface for a dynamic website.
5. Apply various themes for their websites using Word press.

Paper : 7A

Course :Web Applications Development using PHP & MYSQL

Course Outcomes:

Students after successful completion of the course will be able to:

1. Write simple programs in PHP.
2. Understand how to use regular expressions, handle exceptions, and validate data using PHP.
3. Apply In-Built functions and Create User defined functions in PHP programming.
4. Write PHP scripts to handle HTML forms.
5. Write programs to create dynamic and interactive web based applications using PHP and MYSQL.
6. Know how to use PHP with a MySQL database and can write database driven web pages.

Course: Web Applications Development using PHP & MYSQL Lab

On successful completion of this practical course, student shall be able to:

1. Write, debug and implement the Programs by applying concepts and error handling techniques of PHP.
2. Create an interactive and dynamic website.
3. Create a website with reports generated from a database.
4. Write programs to create an interactive website for e-commerce sites like online shopping, etc

N.N.S. Eswari 16/2/23
Dept. In-Charge

V. Ananta Lakshmi
PRINCIPAL

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A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

ASD GOVERNMENT DEGREE COLLEGE (W)(A), KAKINADA

Department of English

Programme Outcomes 2021- 2022

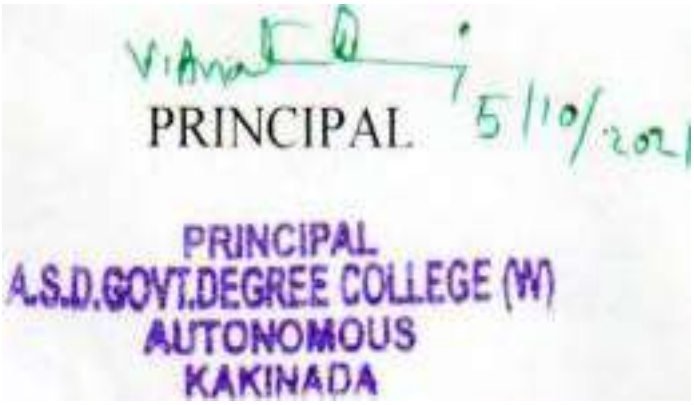
Semester I:

- The students will be able to pronounce the sounds of Consonants, Vowels and Diphthongs and will become self–confident in using English.
- The learners can be able to identify the Syllabic division, Word Stress, Accent, Rhythm and Intonation to use them in connected speech.
- The students will be able to communicate effectively in their daily life.
- The students will be able to use suitable words and structures required for the situation
- The students will be able to master the four skills of the language i.e, LSRW Skills
- The students will be able to gain competence in choosing appropriate words and constructing error-free sentences.
- The students will be able to equip themselves with soft skills and learn their importance to enhance vocabulary building for effective communication.
- The students can master the different soft skills –Positive Attitude, Body language, SWOT Analysis, Emotional Intelligence and Netiquette.

Semester II:

- The learners will be able to perceive the differences among story and poem regarding culture, settings, language etc.
- The students will be exposed to the hard-core realities of the life to overcome the materialistic things.
- The students can be able to enrich the capabilities of reading, writing, and learning so as to pursue their personal, academic and career goals through the acquisition and improvement of the Skills.

- The students will be able to face the interviews at ease using the interview skills for getting employment.
- The learners will develop professional writing skills and spoken forms of expression.
- The learners will use English in all the contexts with ease.
- The learners will correlate their thinking skills with the language to meet the social and professional needs.



A.S.D GOVT. DEGREE COLLEGE FOR WOMEN (A)

(Re-Accredited by NAAC with'B')
KAKINADA 533002 EASTGODAVARI, ANDHRA PRADESH

B.Sc HORTICULTURE for the Academic Year 2021-2022

Objectives and General Outcomes of Programme and Domain Subject

Programme (B.Sc.) Objectives:

The objectives of bachelor's degree programme with Horticulture are:

1. To provide a through insight on various aspects related to Horticulture.
2. To inculcate a sound knowledge on latest developments in the field of Horticulture with apractical approach.
3. To produce a student who thinks independently, critically and discuss various aspects ofHorticulture.
4. To enable the graduate to prepare and pass through various examinations related to thedomain subject.
5. To empower the student to become an employee or an entrepreneur in the field ofHorticulture and to serve the nation..

Programme Outcomes :

1. Understand the basic concepts of Horticulture in relation to its allied core courses.
2. Distinguish the importance of various horticultural plants for the welfare of humans.
3. Demonstrate simple experiments related to plant sciences, analyze data, and interpret themwith the theoretical knowledge.
4. Work in teams with enhanced inter-personal skills and hence develop the critical thinkingwith scientific temper.
5. Effectively communicate scientific ideas both orally and in writing.
6. Realize the potential of the horticulture to become an entrepreneur – self employment.

Domain Subject (Horticulture) Objectives :

1. To create awareness on various branches of Horticulture and basic aspects of soil science.
2. To teach various methods of plant propagation and imparting skills for establishment of anursery.
3. To provide in depth knowledge on cultivation of different vegetable plants by inculcatingboth theoretical and practical aspects.
4. To provide a practical experience on cultivation of different fruit plants with soundtheoretical background.
5. To give sufficient knowledge on pests and diseases of horticulture plants and measures tocontrol the same.

Domain Subject (Horticulture) Outcomes:

1. Students will be able to design, execute the establishment and manage orchards andhorticulture gardens.
2. Students will be able to propagate plants through sexual/vegetative methods and mayestablish a nursery of their own.
3. Students will be able test the suitability of various soils for cultivation of horticulture plants.
4. Students will be able to discuss various aspects related to cultivation of vegetable plants.
5. Students will be able discuss various aspects related to cultivation of fruit plants.
6. Students will be able to examine, identify and control different pests and diseases ofhorticulture plants.
7. Students will think independently and may become an employ in the said sector or maybecome an entrepreneur by taking up cultivation of horticulture crops.

(KNVSN Eswari)
Lecturer
Department of Botany
Incharge of Botany
A.D. Govt. Degree College for Women
KAKINADA

V. Annapurna Lakshmi
PRINCIPAL
A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

A.S.D GOVT DEGREE COLLEGE FOR WOMEN (A)

(Re-Accredited by NAAC with'B')
KAKINADA 533002 EASTGODAVARI, ANDHRA PRADESH
DEPARTMENT OF BOTANY 2021-2022

Programme Outcomes (PO):

- PO1.**Critical Thinking**: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- PO2. **Effective Communication**: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- PO3.**Social Interaction**: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- PO4.**Ethics**: Recognize different value systems including your own, understand them oral dimensions of your decisions, and accept responsibility for them.
- PO5.**Environment and Sustainability**: Understand the issues of environmental contexts and sustainable development.
- PO6. **Self-directed and Life-long Learning**: Acquire the ability to engage in independent and life-long learning in the broadest context socio- technological changes
- PO7.**SKILL DEVELOPMENT**: Acquire the knowledge of practical ability in handling apparatus and process of methodology

Programme Specific Outcomes (PSO):

- PSO1. Understand the nature and basic concepts of cell biology, Biochemistry, Taxonomy and ecology.
- PSO2. Analyze the relationships among animals, plants and microbes
- PSO3. Perform procedures as per laboratory standards in the areas of Biochemistry, Bioinformatics, Taxonomy, Economic Botany and Ecology

CKNVSNEswari
Lecturer
Department of Botany
Incharge in Botany
A.D. Govt. Degree College for Wom
KAKINADA

V. Ananta Lakshmi
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A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

M.Com Program Outcome:

PO 1 Domain Expertise:

- Acquire comprehensive knowledge and understanding about the domain
- Apply the knowledge in real life situations
- Understand about dynamics of the subject areas and the impact of changes

PO 2 Life-long Learning and Research:

- Learn how to learn, unlearn and relearn.
- Adapt to the dynamics of work place and life
- Develop a questioning mind and analyze for reasons.

PO 3 Modern equipment Usage

- Understand how to effectively access, retrieve and use information on the Internet.
- Use technology intelligently for communication, entertainment and for the benefit of society at large
- Develop skills for effective use of various learning sources on the Internet

PO 4 Computing Skills and Ethics

- Abe to use the computer technology to complement the domain expertise
- Able prepare domain related work using the computer software packages for decision making
- Ensure ethical practices in both on the job and off the job.

PO 5 Complex problem Investigation & Solving

- Be a rational thinker and apply the domain and common knowledge for reasoning
- Able to collect the data and interpretation and justify the conclusion.
- Able to inform the results to stakeholders and reporting

PO 6 Perform effectively as Individuals and in Teams

- Able to see the common interest and importance of team work
- Be an effective team member while retaining own abilities
- Cooperate, coordinate and perform effectively in diverse teams/groups.

PO 7 Efficient Communication & Life Skills

- Be an effective listener and project views with justification
- Able to use various communication media effectively
- Able to present information clearly and concisely and convincingly

PO 8 Environmental Sustainability

- Be sensitive about environmental issues
- Understand the need and ways for sustainable development
- Propagate and practice the environment protection measures

PO 9 Societal contribution

- Understand the diversity in society and serve for the common good of the society.
- Sensitized to address societal issues viz: calamities, disasters, poverty, epidemics.
- Be a patriotic citizen to uphold the constitutional values of the country

PO 10 Effective Project Management

- Able to develop goals following SMART method
- Able to plan, do, check and act for deviations

PO 7 Efficient Communication & Life Skills

- Be an effective listener and project views with justification
- Able to use various communication media effectively
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- Sensitized to address societal issues viz: calamities, disasters, poverty, epidemics.
- Be a patriotic citizen to uphold the constitutional values of the country

PO 10 Effective Project Management

- Able to develop goals following SMART method
- Able to plan, do, check and act for deviations
- Able to cope with uncertainties and plan changes

R R D Girls

Head-of Commerce

A.S D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

PRINCIPAL
A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

PROGRAM SPECIFIC OUTCOMES

1. Student will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals. Student will be able to demonstrate knowledge in setting up a computerized set of accounting books.
2. Students will learn relevant financial accounting career skills applying both quantitative and qualitative knowledge to their future careers in business.
3. Student will be able to demonstrate progressive affective domain development of vales of role of accounting in society and business.
4. Student will learn relevant managerial accounting career skill, applying both qualitative and quantitative knowledge to their future career in business.
5. Learners will gain through systematic and subject skill with in various disciplines of commerce, business accounting, economics, finance and auditing.
6. Learning will be able to recognize features and role of businessman entrepreneur, managers, consultant, which will help learners to process knowledge and other soft skill and to react aptly when confronted with critical decision making.
7. Learner will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.
8. Learners will acquire the skills like effective communication, decision making problem solving in day to day business affairs.
9. Learners will involve in various co-activities to demonstrate relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.
10. Learners can also acquire practical skills to work as tax consultant, audit assistant and other financial supporting services.
11. Learners will be able to do higher education and advance in the field of commerce and finance.

PROGRAM SPECIFIC OUTCOMES

1. Student will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals. Student will be able to demonstrate knowledge in setting up a computerized set of accounting books.
2. Students will learn relevant financial accounting career skills applying both quantitative and qualitative knowledge to their future careers in business.
3. Student will be able to demonstrate progressive affective domain development of vales of role of accounting in society and business.
4. Student will learn relevant managerial accounting career skill, applying both qualitative and quantitative knowledge to their future career in business.
5. Learners will gain through systematic and subject skill with in various disciplines of commerce, business accounting, economics, finance and auditing.
6. Learning will be able to recognize features and role of businessman entrepreneur, managers, consultant, which will help learners to process knowledge and other soft skill and to react aptly when confronted with critical decision making.
7. Learner will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.
8. Learners will acquire the skills like effective communication, decision making problem solving in day to day business affairs.
9. Learners will involve in various co-activities to demonstrate relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.
10. Learners can also acquire practical skills to work as tax consultant, audit assistant and other financial supporting services.
11. Learners will be able to do higher education and advance in the field of commerce and finance.

PRINCIPAL
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AUTONOMOUS
KAKINADA

Hd Dept of Commerce
A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

A.S.D. GOVERNMENT DEGREE COLLEGE FOR WOMEN (A)
KAKINADA
DEPARTMENT OF TELUGU
M.A. TELUGU

S. No	Program Outcomes (POs)	Program Specific Outcomes (PSOs)
1.	The student will have an overview of all the relevant areas of Telugu studies.	1. The student will have acquainted themselves in the areas of language and literature. 2. The student will have thorough knowledge of History and culture of Telugu Literature along with folk and regional literature. 3. The student will have prepared themselves to be an effective teacher and researcher and be able to peruse research either in literature or in Language. 4. The will be able to think creatively and critically and conduct independent and original research h and integrate criticism into their own analyses.

Hod & Lec
Lec in Telugu
03/04/23

PRINCIPAL
A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

A AUTONOMOUS COLLEGE FOR WOMEN (A) KARANATA

CIRCULAR

Dated:07-10-2021

All the staff and Students are informed that the Course Outcomes, Programme Outcomes and Programme Specific Outcomes for all programmes for the Academic Year 2021-22 employed in our College is shown (enclosed).

Forward this circular to all students groups.

PRINCIPAL

PRINCIPAL
GOVERNMENT FIRST GRADE COLLEGE (W)
AUTONOMOUS
KARNATAKA

ASD GOVT. DEGREE COLLEGE FOR WOMEN (A)

(Re- Accredited by NAAC with B Grade)
Jagannaickpur, Kakinada, East Godavari, AP – 533002

DEPARTMENT OF ZOOLOGY &AQUACULTURE TECHNOLOGY

2021-2022

Program outcomes (POs)

Course outcomes

PSO's of B.Sc CBZ

ASD GOVT. DEGREE COLLEGE FOR WOMEN (A), KAKINADA.

DEPARTMENT OF ZOOLOGY & AQUACULTURE TECHNOLOGY

DEPARTMENT OF ZOOLOGY (2021-2022)

Program Outcomes (POs)

The Learning Outcomes of the programme could be in consonance with the Bloom"s Taxonomy, which includes –

1. Remember (Lower order)
2. Understand (Lower Order)
3. Apply (Lower Order)
4. Analyze (Higher Order)
5. Evaluate& Problem Solving (Higher Order)
6. Create (Higher Order)

PO1Critical thinking: Able to understand and utilize the principles of scientific enquiry, think analytically, clearly and evaluate critically while solving problems and making decisions during biological study.

PO2Effective communication: Able to formally communicate Scientific ideas and investigations of the biology discipline to pursuing both oral and written communication skills.

PO3Social interaction: Able to develop individual behavior and influence society and social structure.

PO4Effective citizenship: Able to work with a sense of responsibility towards social awareness and follow the ethical standards in the society.

PO5Ethics: Ability to demonstrate and discuss ethical conduct in scientific activities. **PO6Environment and Sustainability:** Able to understand the impact of biological science in societal and environmental contexts and demonstrate the knowledge for sustainable development.

PO7Self-directed and life-long learning: Able to recognize the need of life-long learning and engage in research and self-education.

COURSE OUTCOMES

SEMESTER-I

Animal Diversity – Biology of Non chordates

Course Outcomes: By the completion of the course the graduate should able to –

CO1: Describe general taxonomic rules on animal classification

CO2: Classify Protozoa to Coelenterata with taxonomic keys

CO3: Classify Phylum Platyhelminthes to Annelida phylum using examples from parasitic adaptation and vermin composting

CO4: Describe Phylum Arthropoda to Mollusca using examples and importance of insects and Molluscans

CO5: Describe Echinodermata to Hemichordate with suitable examples and larval stages in relation to the phylogeny

SEMESTER-II

Animal Diversity – Biology of Chordates

Course Outcomes: By the completion of the course the graduate should able to –

CO1: Describe general taxonomic rules on animal classification of chordates

CO2: Classify Protochordata to Mammalian with taxonomic keys

CO3: Understand Mammals with specific structural adaptations

CO4: Understand the significance of dentition and evolutionary significance

CO5: Understand the origin and evolutionary relationship of different phyla from Prochordata to mammalian.

SEMESTER-III

Cell Biology, Genetics, Molecular Biology and Evolution

Course Outcomes: The overall course outcome is that the student shall develop deeper understanding of what life is and how it functions at cellular level. This course will provide students with a deep knowledge in Cell Biology, genetics , Molecular biology and Evolution and by the completion of the course the graduate shall able to–

CO1: To understand the basic unit of the living organisms and to differentiate the organisms by their cell structure.

CO2: Describe fine structure and function of plasma membrane and different cell organelles of eukaryotic cell.

CO3: To understand the history of origin of branch of genetics, gain knowledge on heredity, interaction of genes, various types of inheritance patterns existing in animals

CO4: Acquiring in-depth knowledge on various of aspects of genetics involved in sex determination, human karyo typing and mutations of chromosomes resulting in various disorder.

CO5: Understand the central dogma of molecular biology and flow of genetic information from DNA to proteins.

CO6: Understand the principles and forces of evolution of life on earth, the process of evolution of new species and apply the same to develop new and advanced varieties of animals for the benefit of the society.

SEMESTER-IV (paper-IV)

Animal Physiology, Cellular Metabolism and Embryology

Course Outcomes: This course will provide students with a deep knowledge in Physiology, Cellular metabolism and Embryology and by the completion of the course the graduate shall able to –

CO1: Understand the functions of important animal physiological systems including digestion, cardiorespiratory and renal systems.

CO2: Understand the muscular system and the neuro-endocrine regulation of animal growth, development and metabolism with a special knowledge of hormonal control of human reproduction.

CO3: Describe the structure, classification and chemistry of Biomolecules and enzymes responsible for sustenance of life in living organisms

CO4: Develop broad understanding the basic metabolic activities pertaining to the catabolism and anabolism of various Biomolecules

CO5: Describe the key events in early embryonic development starting from the formation of gametes upto gastrula ion and formation of primary germ layers.

SEMESTER –IV (paper –V)

Immunology and Animal Biotechnology

Course Outcomes: This course will provide students with a deep knowledge in immunology, and animal biotechnology and by the completion of the course the graduate shall able to –

CO1: To get knowledge of the organs of Immune system, types of immunity, cells and organs of immunity.

CO2: To describe immunological response as to how it is triggered (antigens) and regulated (antibodies)

CO3: Understand the applications of Biotechnology in the fields of industry and agriculture including animal cell/tissue culture, stem cell technology and genetic engineering.

CO4: Get familiar with the tools and techniques of animal biotechnology.

CO5: To trace the history and development of immunology

CO6: To provide students with a foundation in immunological processes

CO7: To be able to compare and contrast the innate versus adaptive immune systems and humoral versus cell-mediated immune responses

CO8: Understand the significance of the Major His to compatibility Complex in terms of immune response and transplantation

CO9: To provide knowledge on animal cell and tissue culture and their preservation

CO10: To empower students with latest biotechnology techniques like stem cell technology, genetic engineering, hyridoma technology, transgenic technology and their application in medicine and industry for the benefit of living organisms

CO11: To explain in vitro fertilization, embryo transfer technology and other reproduction manipulation methodologies.

CO12: To get insight in applications or recombinant DNA technology in agriculture, production of therapeutic proteins.

CO13: To understand principles of animal culture, media preparation.

SEMESTER –V (paper –V)

ANIMAL BIOTECHNOLOGY

CO1: Understand the applications of Biotechnology in the fields of industry and agriculture including animal cell/tissue culture, stem cell technology and genetic engineering.

CO2: Get familiar with the tools and techniques of animal biotechnology.

CO3: To provide knowledge on animal cell and tissue culture and their preservation

CO4: To empower students with latest biotechnology techniques like stem cell technology, genetic engineering, hybridoma technology, transgenic technology and their application in medicine and industry for the benefit of living organisms

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CO7: To understand principles of animal culture, media preparation.

SEMESTER –V (paper –VI)

ANIMAL HUSBANDRY

Course Outcomes: This course will provide students with a deep knowledge in

CO1: Understand the field level structure and functioning of poultry sector and its role in food production.

CO2: Comprehend pertaining skills and their application to establish poultry industry. Understand the pre-requisites for starting a Dairy farm

CO4: Recognize different breeds of Cows & buffaloes following safety precautions.

CO5: Prepare and give recommended feed and water for livestock. Maintain health of livestock along with productivity

CO6: Vaccination of cattle, nutrients requirements. Entrepreneurship i.e., Effectively market dairy products

CO7: Ensure safe and clean dairy farm and Standard safety measures to be taken in establishing am industry. Efficiently start and manage to establish or develop a Dairy Industry

SEMESTER –VI

IMMUNOLOGY Course Outcomes: This course will provide students with a deep knowledge in immunology, and by the completion of the course the graduate shall able to –

CO1: To get knowledge of the organs of Immune system, types of immunity, cells and organs of immunity.

CO2: To describe immunological response as to how it is triggered (antigens) and regulated (antibodies)

CO3: To trace the history and development of immunology

CO4: To provide students with a foundation in immunological processes

CO5: To be able to compare and contrast the innate versus adaptive immune systems and humoral versus cell-mediated immune responses

CO6: Understand the significance of the Major His to compatibility Complex in terms of immune response and transplantation

PSO's of B.Sc CBZ

1. To develop skills in both theory and practical in Botany, Zoology and Chemistry.
2. To appreciate interdisciplinary aspects in Botany, Zoology and Chemistry
3. To facilitate the students to pursue higher studies in interdisciplinary areas such as Biochemistry, Bioinorganic Chemistry, Bioinformatics etc..,
4. To facilitate employment as lab analyst in Biological Laboratories.
5. To acquire knowledge and understanding in various instrumentation techniques such as Chromatography, PCR, HPLC which are applicable to all subject disciplines

Secretary-in-charge.
DEPARTMENT OF ZOOLOGY
D.B. GOVT. COLLEGE FOR W...
KAKINADA-2

PRINCIPAL
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AUTONOMOUS
KAKINADA

COURS OUTCOMES (CO)

SEMESTER-I

BASIC PRINCIPLES OF AQUACULTURE

CO1: Students can able to create different aquaculture systems.

CO2: They can evaluate the concept of ecology and pond eco-system.

CO3: They analyze the classification of fish ponds.

CO4: Students can easily understand the preparation of pond and Field visit to hatchery

SEMESTER-II

BIOLOGY OF FIN FISH & SHELLFISH

CO1: Students are able to understand the classification of cultivable fin and shell fish.

CO2: Students can analyze the food and feeding growth of fish

CO3: Students can evaluate reproductive biology.

CO4: Students can easily understand development of fishes, hormones and growth

SEMESTER-III

FISH NUTRITION & FEED TECHNOLOGY

CO1: Students can understand the nutritional requirements of cultivable fish.

CO2: Create the knowledge in feed preparation and feeding habits.

CO3: Students are able to evaluate fish feed manufacture and storage.

CO4: Students analyze the estimation of protein content in aquaculture feeds

SEMESTER-IV_ PAPER-IV

FRESH WATER & BRACKISH WATER AQUACULTURE

CO1: Students can understand the present status of freshwater aquaculture and their role in world economy and food production.

CO2: Create knowledge in life history stages of freshwater fish and prawn.

CO3: Students gain analytical and technical knowledge of prawn hatchery technology and brackish water species.

CO4: They evaluate the carp and prawn culture and composite fish culture systems.

SEMESTER-IV PAPER-V

COURS OUTCOMES (CO)

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CO4: They evaluate the carp and prawn culture and composite fish culture systems.

SEMESTER-IV PAPER-V

FISH HEALTH MANGEMENT & FISHERIES ECONOMICS

CO1: To understand the diseases of fin fish

CO2 To understand the diseases of shell fish.

CO3 To understand the fish health management strategies.

CO4 To understand the different fisheries economic policies.

CO5 To understand the various schemes for the welfare of fishermen community

SEMESTER-V

FISH HEALTH MANAGEMENT: (paper-V)

CO1: To gain knowledge about economics of fisheries.

CO2: To know about the changes in cell structure caused due to various diseases in fishes

CO3: To know about the fin fish diseases. To know about the shell fish diseases.

CO 4: To gain knowledge about using diagnostic tools to diagnose diseases in fishes

SEMESTER-V

FISHERIESEXTENSION, ECONOMICS & MARKETING: (paper-VI)

CO1: To gain knowledge about economics of fisheries.

CO2: To improve the knowledge about fish marketing process. To know about the economic status of fisher men.

CO3: To improve knowledge about fisheries extension methods. To know about welfare programmes of fisher men.

SEMESTER-VI

ORNAMENTAL FISHERIES: (Elective paper-I)

CO1: knowledge on the ornamental fish breeding will be learnt by the student

CO2: Learn about Management practices of ornamental fishes will be learnt.

CO3: Able to gain knowledge on the aquarium maintenance and accessories.

SEMESTER-VI

FISHERY ENGINEERING: Elective paper-II

CO1: student gain knowledge on the fishing crafts.
CO2: To learn about fishing accessories, netting materials–
Natural and synthetic fishing gear materials and yarn numbering system.

CO4: student can understand about Turtle exclusion devices By-catch reduction devices Destructive and prohibited fishing practices

CO5: Student learn about General maintenance of freezing plant and cold storage ice plant

SEMESTER-VI

FISH PROCESS TECHNOLOGY: (Cluster-I)

CO2: Students can understand the Fundamental principles involved in chilling and freezing of fish and fishery products. Various freezing methods.

CO3: Student learn about Packing and storage of dried products. Spoilage of dried products. Preventive measures. Standards for dry fish products. Cold smoking. Principles of freeze-drying.

CO4: student gain knowledge on Packing requirements for frozen and cured products. Statutory requirements for packing.

SEMESTER-VI

FISHERY MICRO BIOLOGY AND FISHERY BY-PRODUCTS: (Cluster-II)

CO 1: Student learn about General characteristics of bacteria, fungi, viruses, algae and protozoans.Ultrastructureofprokaryoticcell–structure and function of bacterial cell wall, plasma membrane, capsule, flagella and endospore. Structure of fungi and yeast cell.

CO 3 : Students can understand the Fish Microbiology: Fish as an excellent medium for growth of microorganisms.

CO 4 : : student gain knowledge on Fishery By- Products: Fishmeal, fish protein concentrate, sharkfinrays, fish maws, isinglass, fish liver oil, fish body oil, fish hydro lysates, chitin, chitosan, glucosamine hydrochloride,

SEMESTER-VI

QUALITYCONTROLINPROCESSINGPLANTS: (Cluster-III)

CO 1: Quality management, total quality concept and application in fish trade. Quality assessment of fish and fishery products

CO 3: Students can understand the water quality in fishery industry, product quality, water analysis, treatments, chlorination, ozonisation, UV radiation, reverse osmosis, techniques to remove pesticides and heavy metals.

CO 4: student gain knowledge on Fish processing units

CO 5: Student learn about Hazards in fish foods .Laboratory techniques for detection and identification of food poisoning bacteria.

SEMESTER-VI

CRUSTACEAN CULTURE: (Cluster-I)

CO 1: Student learn basics of crustacean cultures.

CO 2: Student gain knowledge on important cultivable species of shrimps and prawns, their food and feeding habits and their reproductive biology.

CO 3: : student gain knowledge on Crustaceans culture in cages, re-circulatory systems, rice fields and super intensive and ultra –intensive systems.

CO 4: Student learn about Pond and Large Scale farming; Composite Culture; Farming of Crab and Lobster.

CO 5: Students can understand the Bacterial, Fungal and Viral diseases encountered during large scale culture of Crustaceans

SEMESTER-VI

MOLLUSCANS AND SEA WEED CULTURE (Cluster-II)

CO 1: Student acquires knowledge on taxonomy of molluscans.

CO2: Student able to understand mollus culture and sea weed culture systems.

CO 3 : Student able to understand the biological activity in recyclecling systems of essensial trace materials.

CO 4: Student learn about the production of pearls from forming.

SEMESTER-VI

MARINE FIN FISHCULTURE (Cluster-III)

CO 1: Student learn about important cultivable fin fish species.

CO 3 : Classification of culture systems: ponds, pens, cages, raceways. Pond preparation and fertilization; eradication of weed and Predatory finfishes

CO 4 : student gain knowledge on Hatchery management

CO 5: Students can understand the organic farming and their management. Harvesting and post- harvesting technology of cultured fin fish.

PSO's of CZAqt

1. To develop theoretical and practical skills in Zoology, Chemistry and Aquaculture.
2. To understand the interdisciplinary areas in Chemistry, Zoology and Chemistry.
3. To provide opportunity in pursuing higher studies in all disciplines of life sciences and Chemistry.
4. To create Entrepreneurship / Self-employment opportunities in Aqua culture areas.
5. To apply various laboratory techniques learnt in Chemistry in Aqua culture laboratories in areas such as Quality assurance, Quality Control and diagnostics.

DEPARTMENT OF ZOOLOGY
A.S. GOVT COLLEGE FOR WOMEN

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SEM I,II&III- SECOND LANGUAGE SANSKRIT

Course Outcomes (CO):

Upon completion of this course students will have following opportunities and skills.

CO1.Students will be able to know not only ancient literature and their classification but also modern Sanskrit literature.

they will be manage their cognition, emotive apparatus, confusion and conflict of mind.

CO3.They should general introduction of Indian Petrology and definitions and examples of various artharlankara.

CO4.The students would learn about the ancient Indian Educational system and Polity, their nature, concepts through the text of Dharmasastra and Arthasastra.

CO5.The students would know about the historical importance of Indian Epigraphy, Paleography, Chronology and Inscription.

CO6.They will be able to know the importance, propagation across the world of this language.

CO7.Students would know about the Vedic mantras, their application, Vedic grammar, socio-cultural life.

CO8. Grammar is very important part of this language for the making

of sentences, to know appropriate meaning of texts, oral communication and perfection.

CO9.Linguisticts should also help them to know the source of this language and the relation between other languages.

CO10.The students will take the knowledge about of Indian philosophy, Philosophers and their thoughts. They could relate the philosophical theory in practical life.

SANSKRIT GENERAL PROGRAMME:

SANSKRIT GENERAL PROGRAMME:

Specific Outcomes (PSO):

PSO1. Develop a strong concept of ancient Indian history, philosophy and literature.

PSO2. Enhance communication skills-Listening, Speaking, Reading, Writing.

PSO3.Students will be able to write Devnagari scripts which provide them the paleographical knowledge to read out the script of modern languages like Hindi and Marathi.

PSO4.Students will demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO5. Students will gain knowledge of the major traditions of literatures written in Sanskrit.

PSO6. To make them eligible for higher education.

PSO7. Prepare students for the profession of teacher, WBCS, UPSC etc.

Course Outcomes (CO):

After becoming successful completion of all undergraduate general degree students should be able to achieve the following objectives.

CO1.Students will be able to know ancient Indian history of literature and literary criticism.

CO2. Grammar is very important part of this language to make a sentence, to know appropriate meaning of texts, oral communication and perfection. Grammar is the only way to know this language well.

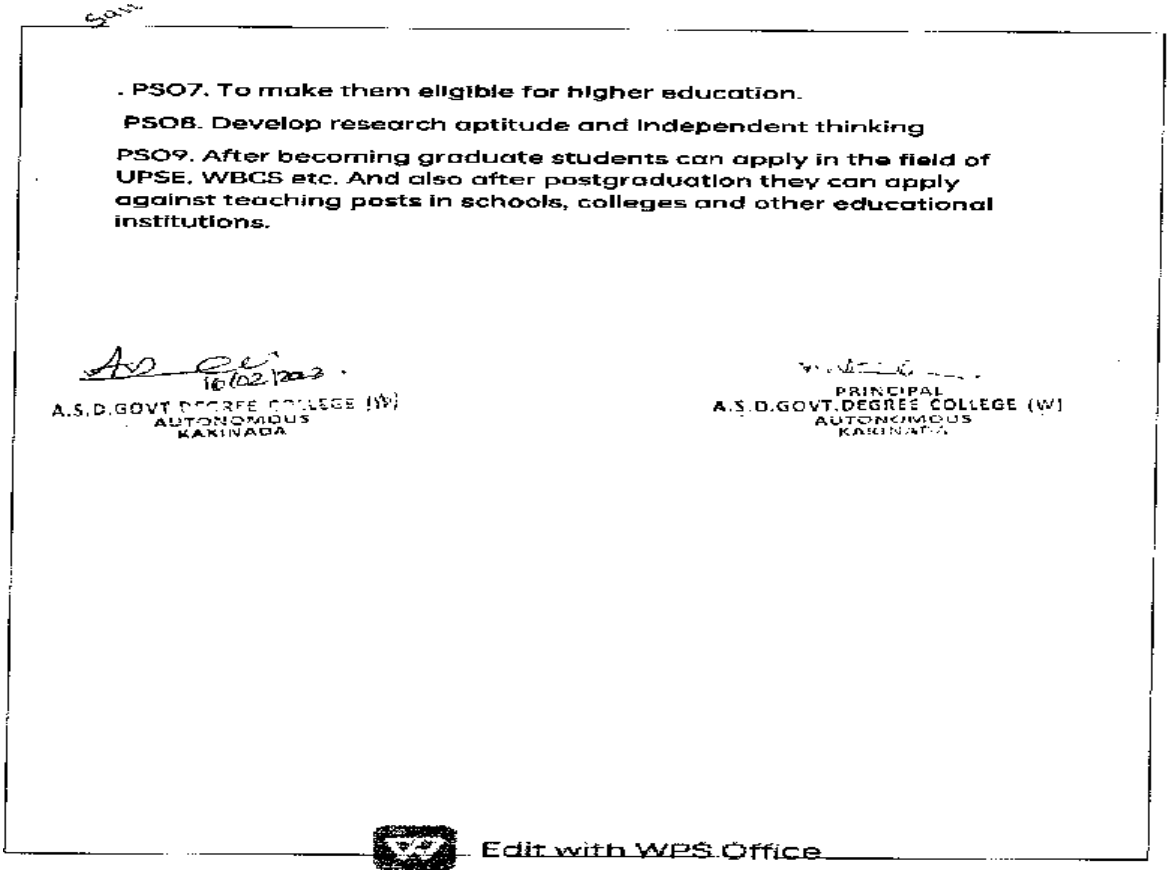
CO3. They will learn about the Indian Philosophy, Religion and Culture in Sanskrit tradition.

CO4.Through Gita they also develop their personality.

CO5.Ayurveda will help them to know the Indian medical tradition.

CO6.They will also know Nation and Nationalism through Sanskrit literature.

CO7.The students will able to learn the yoga, their concept, features etc



PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE OUTCOMES

Program Outcome	Political Science education provides learners with knowledge and skills needed to prepare for a professional career as a teacher, administrator, political scientists, lawyers etc. It also provides ground knowledge about the basics of political education (it gives political training). It trains about the politics and government at local, state, national and global levels.
Program Specific Outcome	Political Science organizes guest talk by scholars in the field of Political Science and encourages the students to think critically and gives information about politics and various aspects of public life. Political Science department enables the students to participate in various programs conducted by Humanities department as well as forums of college and also avail the students to participate in various activities of the college and outside.
Course: BA POLITICAL SCIENCE	**Outcomes**
Introduction to Political Science	To understand the concepts of Political Science and to have a knowledge about the significance of Political Science.
Comparative Government and Politics	To understand the comparative analysis of various government or political system of the countries like USA, UK, China, and France. It helps them to critically analyses about the advantages and disadvantages of that political system with Indian political system.
Indian political system	The study of Indian Political System conveys the whole body of knowledge to the students about Indian Government and Politics. This encourages the students to think and analyse about the politics of our nation.
Political thinkers and ideologies	It enables the students to learn the ideas of great Political Thinkers of ancient as well as modern period. To understand the concept of Communitarianism, Multiculturalism, Liberalism etc. Multiculturalism is a situation in which all the different cultural or racial groups in a society have equal Rights and opportunities. It helps the students to understand the importance of equality of different cultures.
Public administration	It helps to understand about Organization, mode, structure of Civil Service and also enables the Students to have knowledge about Budget preparation and Execution.
Introduction to International Relations	It inculcates knowledge of various concepts of International Relations for example Collective Security, Balance of Power etc. It also helps to understand various process of International Relation. It studies about UNO which is the only one International Organization functioning for the maintinanence of International Peace and Security.
Contemporary issues and trends in international relations	It enables the students to understand about the various issues of International Relations like global terrorism, issues between India and different neighboring countries like Pakistan, Bangladesh and China. It also gives knowledge about various other aspects like New International /Economic Order and Studies about Global Organizations like WTO. It helps the students to analyzeP all those issues critically and to understand significance of World Peace.

Theory and practice of management	It helps to understand about the scientific knowledge of Management and improves the decision making ability of the students, develop leadership qualities and improve communication skills.

Sec in-charge
Dept. of Political Science.

PHYSICS COURSE OUTCOMES

MECHANICS WAVES AND OSCILLATIONS

Course outcomes:

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

- *Understand Newton's laws of motion and motion of variable mass system and its application to rocket motion and the concepts of impact parameter, scattering cross section.*
- *Apply the rotational kinematic relations, the principle and working of gyroscope and itapplicationsand the precessional motion of a freely rotating symmetric top.*
- *Comprehend the general characteristics of central forces and the application of Kepler's laws to describe the motion of planets and satellite in circular orbit through the study of law of Gravitation.*
- *Understand postulates of Special theory of relativity and its consequences such as length contraction, time dilation, relativistic mass and mass-energy equivalence.*
- *Examinephenomena of simple harmonic motionand the distinction between undamped,damped and forced oscillations and the concepts of resonance and quality factor with reference to damped harmonic oscillator.*
- *Appreciate the formulation of the problem of coupled oscillations and solve them to obtain normal modes of oscillation and their frequencies in simple mechanical systems.*
- *Figure outthe formation of harmonics and overtones in a stretched string and acquire the knowledge on Ultrasonic waves, their production and detection and their applications in different fields.*

Practical Course 1: Mechanics, Waves and Oscillations

Course outcomes (Practicals):

On successful completion of this practical course, the student will be able to;

- Perform experiments on Properties of matter such as the determination of moduli of elasticity *viz.*, Young's modulus, Rigidity modulus of certain materials; Surface tension of water , Coefficient of viscosity of a liquid , Moment of inertia of some regular bodies by different methods and compare the experimental values with the standard values.
- Know how to determine the acceleration due to gravity at a place using Compound pendulum and Simple pendulum.
- Notice the difference between flat resonance and sharp resonance in case of volume resonator and sonometer experiments respectively.
- Verify the laws of transverse vibrations in a stretched string using sonometer and comment on the relation between frequency, length and tension of a stretched string under vibration.
- Demonstrate the formation of stationary waves on a string in Melde's string experiment.
- Observe the motion of coupled oscillators and normal modes.

Course-II: WAVE

OPTICS

Course outcomes:

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

- *Understand the phenomenon of interference of light and its formation in (i) Lloyd's single mirror due to division of wave front and (ii) Thin films, Newton's rings and Michelson interferometer due to division of amplitude.*
- *Distinguish between Fresnel's diffraction and Fraunhoffer diffraction and observe the diffraction patterns in the case of single slit and the diffraction grating.*
- *Describe the construction and working of zone plate and make the comparison of zone plate with convex lens.*
- *Explain the various methods of production of plane, circularly and polarized light and their detection and the concept of optical activity..*
- *Comprehend the basic principle of laser, the working of He-Ne laser and*

Ruby lasers and their applications in different fields.

- *Explain about the different aberrations in lenses and discuss the methods of minimizing them.*
- *Understand the basic principles of fibreoptic communication andexplore the field of Holography and Nonlinear optics and their applications.*

Practical Course II: Wave Optics

Course outcomes (Practicals):

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

1. *Gain hands-on experience of using various optical instruments like spectrometer, polarimeterand making finer measurements of wavelength of light using Newton Ringsexperiment, diffraction grating etc.*
2. *Understand the principle of working of polarimeter and the measurement of specific rotatory power of sugar solution*
3. *Know the techniques involved in measuring the resolving power of telescope and dispersive power of the material of the prism.*
4. *Be familiar with the determination of refractive index of liquid by Boy's methodandthe determination of thickness of a thin wire by wedge method.*

Course-III: HEAT AND THERMODYNAMICS

Course outcomes:

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

- *Understand the basic aspects of kinetic theory of gases, Maxwell-Boltzman distribution law, equipartition of energies, mean free path of molecular collisions and the transport phenomenon in ideal gases*
- *Gain knowledge on the basic concepts of thermodynamics, the first and the second law of thermodynamics, the basic principles of refrigeration,the concept of entropy,the thermodynamic potentials and their physical interpretations.*

- *Understand the working of Carnot's ideal heat engine, Carnot cycle and its efficiency*
- *Develop critical understanding of concept of Thermodynamic potentials,theformulation of Maxwell's equations and its applications.*
- *Differentiate between principles and methods to produce low temperature and liquefyair and also understand the practical applications of substances at low temperatures.*
- *Examine the nature of black body radiations and the basic theories.*

Practical Course-III: Heat and Thermodynamics

On successful completion of this practical course,the student will be able to;

- *Perform some basic experiments in thermal Physics, viz., determinations of Stefan's constant, coefficient of thermal conductivity, variation of thermo-emf of athermocouple with temperature difference at its two junctions, calibration of a thermocouple and Specific heat of a liquid.*

Course-IV: ELECTRICITY, MAGNETISM AND ELECTRONICS

Course outcomes:

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

- *Understand the Gauss law and its application to obtain electric field in different cases and formulate the relationship between electric displacement vector, electric polarization, Susceptibility, Permittivity and Dielectric constant.*
- *Distinguish between the magnetic effect of electric current and electromagnetic induction and apply the related laws in appropriate circumstances.*
- *Understand Biot and Savart's law and Ampere's circuital law to describe and explain the generation of magnetic fields by electrical currents.*

- *Develop an understanding on the unification of electric and magnetic fields andMaxwell's equations governing electromagnetic waves.*
- *Phenomenon of resonance in LCR AC-circuits, sharpness of resonance,Q-factor,Power factor and the comparative study of series and parallel resonant circuits.*
- *Describe the operation of p-n junction diodes, zener diodes, light emitting diodes and transistors*
- *Understand the operation of basic logic gates and universal gates and their truth tables.*

Practical CourseIV:Electricity, Magnetism and Electronics

Course outcomes (Practicals):

On successful completion of this practical course the student will be able to;

- *Measure the current sensitivity and figure of merit of a moving coil galvanometer.*
- *Observe the resonance condition in LCR series and parallel circuit*
- *Learn how a sonometer can be used to determine the frequency of AC-supply.*
- *Observe the variation of magnetic field along the axis of a circular coil carrying current using Stewart and Gee's apparatus.*
- *Understand the operation of PN junction diode, Zener diode and a transistor and theirV-I characteristics.*
- *Construct the basic logic gates, half adder and full adder and verify their truth tables. Further, the student will understand how NAND and NOR gates can be used as universal building blocks.*

Course V: MODERN

PHYSICS

Course outcomes:

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

- *Develop an understanding on the concepts of Atomic and Modern*

Physics, basicelementary quantum mechanics and nuclear physics.

- *Develop critical understanding of concept of Matter waves and Uncertainty principle.*
- *Get familiarized with the principles of quantum mechanics and the formulation ofSchrodinger wave equation and its applications.*
- *Examine the basic properties of nuclei, characteristics of Nuclear forces, salientfeatures of Nuclear models and different nuclear radiation detectors.*
- *Classify Elementary particles based on their mass, charge, spin, half life andinteraction.*
- *Get familiarized with the nano materials, their unique properties and applications.*
- *Increase the awareness and appreciation of superconductors and their practicalapplications.*

Practical Course V:Modern Physics

On successful completion of this practical course, the student will be able to;

- *Measure charge of an electron ande/m value of an electron by Thomson method.*
- *Understand how the Planck's constant can be determined using Photocell and LEDs.*
- *Study the absorption of α-rays and β-rays, Range of β-particles and the characteristicsof GM counter*

Determine the Energy gap of a semiconductor using thermistor and junction diode

UG- SKILL DEVELOPMENT COURSE

ELECTRICAL APPLIANCES SEM- I

Learning Outcomes: By successful completion of the course, students will be able to:

- Acquire necessary skills/hand on experience/ working knowledge on multimeters, galvanometers, ammeters, voltmeters, ac/dc generators, motors, transformers, single phase and three phase connections, basics of electrical wiring with electrical protection devices.
- Understand the working principles of different household domestic appliances.
- Check the electrical connections at house-hold but will also learn the skill to repair the electrical appliances for the general troubleshoots and wiring faults.

SOLAR ENERGY SEM- II

Learning Outcomes: After successful completion of the course, students will be able to:

- Acquire knowledge on solar radiation principles with respect to solar energy estimation.
- Get familiarized with various collecting techniques of solar energy and its storage
- Learn the solar photovoltaic technology principles and different types of solar cells for energyconversion and different photovoltaic applications.
- Understand the working principles of several solar appliances like Solar cookers, Solar hot watersystems, Solar dryers, Solar Distillation, Solar greenhouses

Course 6B: LOW TEMPERATURE PHYSICS & REFRIGERATION

(Skill Enhancement Course (Elective), Credits: 05)

I. Learning Outcomes: Students after successful completion of the course will be able to

1. Identify various methods and techniques used to produce low temperatures in theLaboratory.
2. Acquire a critical knowledge on refrigeration and air conditioning.
3. Demonstrate skills of Refrigerators through hands on experience and learns aboutrefrigeration components and their accessories.
4. Understand the classification, properties of refrigerants and their effects on environment.
5. Comprehend the applications of Low Temperature Physics and refrigeration.

Course 6B: Low Temperature Physics &

Refrigeration Practical outcomes

II. Learning Course Outcomes of Low Temperature Physics & Refrigeration: On completion of practical course, student shall be able to

1. List out, identify and handle equipment used in refrigeration and low temperature lab.
2. Learn the procedures of preparation of Freezing Mixtures.
3. Demonstrate skills on developing various Freezing mixtures and materials and theirapplications in agriculture, medicine and day to day life.
4. Acquire skills in observing and measuring various methodologies of very lowtemperatures
5. Perform some techniques related to Refrigeration and Freezing in daily life.

Course 7B: Solar Energy and Applications

I. Learning Outcomes of Solar Energy and Applications : After successful completion of the course, the student will be able to: : Solar Energy and Applications

1. Understand Sun structure, forms of energy coming from the Sun and its measurement.
2. Acquire a critical knowledge on the working of thermal and photovoltaic collectors.
3. Demonstrate skills related to callus culture through hands on experience

systems, solar photovoltaic modules and systems.

2. Learn the procedures for measurement of direct, global and diffuse solar radiation, I -V characteristics and efficiency analysis of solar cells and modules.
3. Demonstrate skills acquired in evaluating the performance of solar cell / module inconnecting them appropriately to get required power output.
4. Acquire skills in identification and elimination of the damaged panels without affectingthe output power in a module / array.
5. Perform procedures and techniques related to general maintenance of solar thermal andphotovoltaic modules.

4. Understand testing procedures and fault analysis of thermal collectors and PV modules.
5. Comprehend applications of thermal collectors and PV modules.

Course 7B: Solar Energy and Applications – Practical (lab) work

II. Learning Outcomes(practicals): On successful completion of this practical course, student shall be able to:

1. List out and identify various components of solar thermal collectors and systems, solarphotovoltaic modulesand systems.
2. Learn the procedures for measurement of direct, global and diffuse solar radiation, I -V characteristics and efficiency analysis of solar cells and modules.
3. Demonstrate skills acquired in evaluating the performance of solar cell / module inconnecting them appropriately to get required power output.
4. Acquire skills in identification and elimination of the damaged panels without affectingthe output power in a module / array.
5. Perform procedures and techniques related to general maintenance of solar thermal andphotovoltaic modules.

Department of Physics
Govt. Degree College for Women,
K A K I N A D A.

Program objectives, Outcomes, Co-curricular and Assessment methods

1. Aim and objectives of UG program BSc Microbiology:

The programme BSc Microbiology introduces students to the vast array of microbes viz bacteria, archaea, viruses, fungi and protozoa around us, their diversity and applications. The programme has a strong practical emphasis, providing students with the basic laboratory skills required for a career in either applied or research microbiology.

Program outcomes:

PO1: Graduates will acquire adequate knowledge and leadership skills for a successful career
PO2: Graduates will be able to analyze and solve biology based problems.

PO3: Graduates will cooperate with each other to solve problems with creative thinking.

PO4: Graduates will acquire practical skills- plan & execute experimental techniques independently as well as to analyse & interpret data.

PO5: Graduates will effectively be able to manage resources & time.

PO6: Graduates will be able to learn independently and develop critical thinking.

PO7: Graduates will accomplish ability to communicate effectively and able to understand ethical responsibility.PO8: Graduates will get adequate knowledge to use information & communication technology.

PO9: Graduates will carry on to learn and to adapt in a world of constantly evolving technology.

2. Program Specific outcomes:

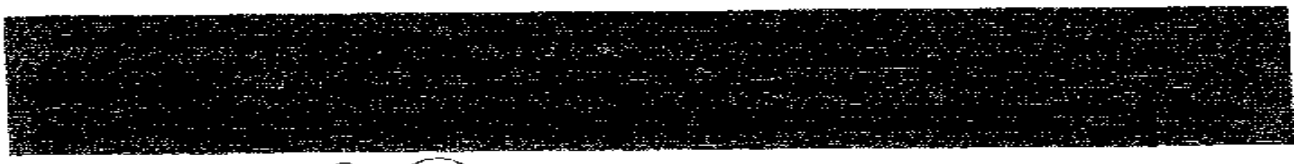
Microbiology students who graduate with a Bachelor of Science with Microbiology will

PSO1: Acquire knowledge on fundamentals of Microbiology

PSO2: Understand details of bacterial, fungal, algal and viral morphology and physiology.
PSO3: Competently be able to cultivate and characterize bacterial and fungal forms.

PSO4: Grasp the fundamental concepts of immunity and the contribution of organs and cells in the development of immune response.

PSO5: Gain insight into the various aspects of microbial genetics.



A.S.D.GOVT.DEGREE COLLEGE (W)
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KAKINADA

Course Out Comes of all Subjects

SEMESTER - I

HSC -101- BASIC NUTRITION

Outcomes of the course

At the end of the course the student will be able to demonstrate the following:-

A) Remembers and explains in a systemic way

- Understanding the concepts of nutrition and food and its relation to health.
- Acquiring knowledge about macro and micro nutrients and their functions.

- Knowing the consequences of deficiency of taking nutrients.
- Understanding importance of non nutrients in human nutrition

B) Understands and Uses

- Planning recipes by selecting appropriate foods based on the macro and micro nutrient composition.
- Selection of foods based on the nutrient composition for healthy and disease people.

C) Critically explains, judges and solves

- Planning and calculating nutritive values for the foods and recipes.
- Identification of signs and symptoms of different nutrient disorders.
- Practical knowledge on availability of seasonal and other foods by doing market survey.
- Listing out the common foods and their names in scientific and local languages.

D) Working in out of prescribed area under a co-curricular activity

- Selection of foods based on seasonal availability and planning recipes on the nutrient composition to healthy and diseased conditions.

E) Practical skills

- Market survey on different foods available and learning local and scientific names.
- Learn to identify different food samples and to know their nutrient composition.
- Planning of recipes according to nutrient components.

SEMESTER - I

HSC-102 – GENERAL PSYCHOLOGY

Outcomes of the course

The students will be able to:

A) Remember and explain in a systematic way

- The concept of psychology and its branches of study.
- About basic psychological concepts like Attention, Perception, , Memory and Motivation

B) Understand and Use

- Understand the meaning of Personality
- Use theoretical perspectives of Psychology to understand human behaviour.

C) Critically explains, judges

- The determining factors of human personality.

D) Working in out of prescribed areas under co-curricular activity

- Observing different types of personalities based on type theory
- Identifying children with extremes of intelligence in local schools.

E) Practical skills

- Methods of study of children using different methods.
- Assessment of personality and intelligence using standard tests.

SEMESTER - I

HSC-103–FUNDAMENTALS OF TEXTILES

Outcomes of the course

The students will be able to

A. Remember and explain in a systematic way:

- The importance of the textiles in human life and also the textile terminology and types of fibres.
- Use of Textile fibres in various fields.

B. Understands and Uses

- Identification of different fibres like plant fibres, animal fibres based on properties.
- Gains knowledge on manufacturing of different textile fibers.
- Understands the method of Spinning and process of yarn construction.

C. Critically explains, judges

- Critical differences between cellulose, protein and man-made fibres.
- Judge the differences between simple and novelty yarns.

D. Working in out of prescribed areas under co-curricular activity

- Collection of different fabrics and gain knowledge about their seasonal usage.

E. Practical Skills

- Identification of different textile fibres using microscopic, burning tests.
- Identification of yarns and their use in textiles.

SEMESTER - II

HSC - 201 – INTRODUCTION TO FOOD SCIENCE

Outcomes of the course

At the end of this course, the students will be able to

A) Remember and explain in a systematic way of

- About different plant and animal foods, their selection, nutritive values, composition, and storage and processing.
- Explains the principles of food preservation and causes of spoilage.

B) Understanding and Uses

- Planning of cereals and millets, pulses, Milk and Milk products, vegetables, fruits, nuts and oil seeds products
- Uses different foods in cookery.
- Understands application of different Processing techniques in cookery.

C) Critically explain, judge and Solve

- Standardisation of weights and measures of various food items.
- Analyses different processing techniques to improve nutritive quality of foods by germination, fermentation, supplementation, fortification etc.

D) Creativity

- Planning and preparation of nutritious recipes by using different foods

E) Practical Skills

- Preparation of food without loosing nutritive value
- Planning, preparing and calculating nutritive values of protein rich, Calcium rich, and Iron rich recipes.

SEMESTER - II

HSC-202 - HOUSING FOR BETTER LIVING

Outcomes of the course

At the end of the course, the students will be able to learn

A) Remember and explain in a systematic way

- Importance of house for better living
- Requirements to purchase land, building materials protection and care of house

B) Understands and Uses

- Principles of planning a house with an emphasis on kitchen plans
- Types and properties of building materials

C) Critically explains, judges

- Planning of different rooms in a house.
- House plans for different income groups.
- Advantages and disadvantages of own and rented house.
- Protection of house from dampness, termites, fire etc.,
- Selection and purchase of equipment for the house.

D) Working in out of prescribed areas under co-curricular activity

- Study of building materials and equipment which are not included in the syllabus
- Visiting Places –Building sites/ Construction

E) Practical skills

- Drawing of floor plans of houses for different income groups using symbols.
- Drawing of different kitchen plans
- Study and identification of different building materials.

- Study of electrical and non-electrical equipment for the house, their operation and care.

SEMESTER - II

HSC- 203 –FUNDAMENTALS OF HOME SCIENCE EXTENSION

Outcomes of the course

The students will be able to:

A) Remember and explain in a systematic way

- Learn the meaning, scope and concept of Home Science Extension.
- Explain the importance of Extension Education in Home Science

B) Understand and Use

- Understand the role Extension worker in community
- Understand the Principles, steps in Teaching and Learning process

C) Critically explains, judges

- Qualities of an Extension Worker
- Different Teaching Methods and Teaching Aids in Communication Process.

D) Working in out of prescribed areas under co-curricular activity

- Know the importance of Teaching Methods and Teaching Aids in Communication Process.
- Know the barriers of communication and learn how to overcome them.

E) Practical skills

- Learn Practical skills in planning, preparation of Audio-Visual Aids
- Usage of bulletin board in extension education
- Use of different types of Teaching methods and Audio-Visual Aids for different target groups.

SEMESTER - III

HSC-301 – COMMUNITY NUTRITION

Outcomes of the course

The students will be able to:

A) Remembers and explain in a systematic way

- Understanding the nutritional problems and nutrition requirements of the community.
- Acquiring knowledge about RDA, food groups, steps in planning a diet.

B) Understanding and Uses

- Planning of nutrition diets according to RDA for different age groups-Infancy to old age and physiological conditions -Pregnancy and lactation
- Different methods of assessing nutritional status –Anthropometry, biochemical, clinical examination and diet survey etc.,

C) Critically explains, judges & Solves

- Preparation of nutritious diets for different age groups meeting the RDA.
- ABCD-techniques for nutritional status assessment.

D) Working in out of prescribed areas

- Planning programs to combat nutritional problems in community.

E) Practical skills

- Planning & Preparation of diets for different age groups
- Calculations of nutritive values of the diets and RDA for different age groups.
- Nutrition education techniques.
- Assessment of nutritional status using ABCD technique

SEMESTER - III
HSC – 302 - PRINCIPLES OF GARMENT CONSTRUCTION

Outcomes of the course

The students will be able to

A) Remember and explain in a systematic way

- Explain the different sewing equipment used in garment construction.
- Recall the different parts of sewing machine and its function.

B) Understands and Uses

- Understand the use of sewing machine and ways to stitch fabrics.
- Learn to identify the defects and to know the adjustments of sewing machine.
- To know the different body measurements to stitch a garment.

C) Critically explains, judges

- Analyse the estimation of fabric for different garments.
- Evaluate the stitching and fitting of the garments.

D) Working in out of prescribed areas under co-curricular activity

- Visiting nearby tailoring units and observing different garment components.
- Visiting nearby Ready-made clothing shops and observing different garment components

E) Practical skills

- Adjustments and care of using a sewing machine
- Method of taking perfect body measurements and pattern making.
- Using drafting equipment and Systematic method of Drafting
- Stitching different basic stitches
- Stitching necklines, collars , plackets and sleeves,
- Drafting and construction of saree petti coat and frock

SEMESTER - III

HSC-303 CHILD DEVELOPMENT

Outcomes of the course

The students will be able to:

A) Remember and explain in a systematic way

- Scientific knowledge about child-development, and Developmental tasks at various stages of child development.
- The childhood problems, special needs of challenged children and their management.

B) Understand and Use

- Understand the stages of pregnancy and birth process.
- Use basic principles for assessment of various developments during childhood.

C) Critically explains, judges

- The developmental milestones and can identify developmental delays.
- About parenting styles adopted by parents and impact of different parenting styles on child's behaviour.

D) Working in out of prescribed areas under co-curricular activity

- Observation of neonatal characteristics by visiting a maternity hospital.
- Familiarise with childhood disabilities by visiting local centres for special children.

E) Practical skills

- Assessment of different developments like physical, social and cognitive development of children belonging to different age groups.
- Learn the method of assessment of behaviour problems among children using a check list.

SEMESTER - IV

HSC-401 - THERAPEUTIC NUTRITION

Outcomes of the course

The students will be able to

A) Remember and explain in a systematic way

- Understands the meaning, objectives and purpose of therapeutic nutrition.
- Understands about modification of normal diets to therapeutic diets.

B) Understands and Uses

- Planning and preparation of diets for different diseases like Obesity, Cardiovascular, Renal, Diabetes mellitus etc,

C) Critically explains, judges

- Calculation of Nutrient Requirements and modification of the diets for complications in different disease conditions.

D) Working in out of prescribed areas under co-curricular activity

- Preparation of diets for the patients in acceptable manner by applying their own choice of foods through observing the family members, elderly, friends, neighbours and patients.

E) Practical skills

- Planning and preparation of diets for different disease conditions.
- Diet counselling and patient education.

SEMESTER – IV

HSC-402 FABRIC CONSTRUCTION AND APPAREL CARE

Outcomes of the course

At the end of the course the students will be able to learn:

A) Remember and explain in a systematic way

- Concepts of Grain- fabric count, Thread count, balance, selvedge weft and warp etc.
- Meaning of knitting, weaving and finishes in fabric construction.

B) Understands and Use

- Knowledge in selection of clothing.
- Learn the process of laundering to different fabrics like cotton, woollen, silk etc.

C) Critically explains

- Different methods of fabric construction
- Examine the use of finishes in textile field.
- Analyze the selection of clothing and planning of wardrobe

D) Working in out of prescribed areas under co-curricular activity

- Visit to weaving centre and dry cleaning centres.
- Identify methods of removing stains in fabrics

E) Practical skills

- Identify and prepare different weaves.
- Examine the thread count of the fabric and analyse its balance for durability.
- Removing different stains on fabric.
- Drafting and stitching of Salwar and Kameez.

SEMESTER - IV

HSC- 403 - HUMAN DEVELOPMENT AND FAMILY DYNAMICS

Outcomes of the course

The students will be able to:

A) Remember and explain in a systematic way

- Factors essential for harmonious and wholesome family living.
- Knowledge on pubertal changes, adolescence and appreciate value of marriage in Indian families
- Meaning of Pre-marital counselling and Post -marital counselling

B) Understand and Use

- Understand the need for planning and preparation of parenthood.
- Understand the importance of adjustments to strengthen marital and family relationships

C) Critically explains, judges

- Problems of adolescence during each sub stage and coping up strategies.

D) Working in out of prescribed areas under co-curricular activity

- Visiting counselling centres and understanding coping up strategies of problems
- Familiarise with problems of elderly through case studies and institutional visits.

E) Practical skills

- Methods of study of adolescent problems using scales and schedules
- Case study method to find out the adjustment problems of married couple.
- Case study method to find out the Physical and Psychological problems of elderly

SEMESTER - IV

HSC -404- NUTRITIONAL BIOCHEMISTRY

Outcomes of the course

The student will be able to demonstrate the following:-

A) Remembers and explains in a systematic way

- Understands the metabolism of different macro and micro nutrients in human physiology.
- Acquires knowledge on factors affecting digestion, absorption of nutrients.
- Knowledge on enzymes and its role in nutrient metabolism.

B) Understands and uses

- Selects foods based on nutrient chemical components and their function biochemically, physiologically and metabolically as well as their impact on disease.
- Understands nutritional needs in healthy individuals and in and diseased conditions.

C) Critically explains, judges and solves

- Identifies nutrients in foods.
- Estimates Qualitative and quantitative analysis of nutrients in different foods.
- Identifies Food enzymes.

D) Working in out of prescribed area under a co-curricular activity

- Observing in hospitals/ private laboratories analysis methods according to the person to person metabolism
- Observing therapeutic diets in hospitals according to the person to person metabolism.

E) Practical skills

- Tests for identification of mono, di and polysaccharides, proteins and amino acids, fats and enzymes.

SEMESTER - IV

HSC - 405 - RESOURCE MANAGEMENT & FAMILY ECONOMICS

Outcomes of the course

At the end of the course, the students will be able to learn

A) Remember and explain in a systematic way the process of management

B) Understands and Use the principles of management in time, energy and money management.

C) Critically examine the economic goals and financial management of families.

D) Apply the management principles in decision making

E) Acquire skill in efficient management of available resources

F) explains, judges and solves

SEMESTER IV

HSC - 406 HOME SCIENCE EXTENSION AND COMMUNITY DEVELOPMENT

Outcomes of the course

At the end of the course, the students are able to learn:

A) Remember and explain in a systematic way

- Features of rural, urban and tribal communities
- Meaning of community development

B) Understands and Uses

- Importance of Programme Planning in organising community development programmes
- Planning lessons for specific groups

C) Critically explains

- Role of various Governmental and Non-Governmental agencies in Community development
- Objectives and services rendered by Governmental and Non-Governmental agencies to the community.

D) Working in out of prescribed areas under co-curricular activity

- Learn about Panchayat Raj set-up at different levels, by visiting and exploring with Government officials and village heads.

E) Practical skills

- Planning, Preparation and execution of lessons in the classrooms and community.
- Conducting project work on community development programmes.

SEMESTER -V

Course 16 C: FOOD QUALITY CONTROL AND ASSURANCE

I. learning out comes

After successful completion of the course, the students will be able to

1. Describe and introduce the principles and methods of food quality control and assurance
2. Understand the methods of quality control and assurance in foods.
3. Apply and use the principles and selection of panelists for sensory evaluation and quality management system.
4. Analyse and explain about quality control and common food standards
5. Evaluate and assess the techniques of quality assessment of different foods.

SEMESTER - V

Course 17 C: FOOD SAFETY, SANITATION AND HYGIENE

I. Learning Out comes

After successful completion of the course, the students will be able to

1. Enumerate the various aspects of food safety and to identify the causes and prevention procedures for food borne illness, intoxication and infection
2. Understand the need for consumer education and discuss occupational safety and health administration requirements.
3. Analyse food handling procedure, describe food storage and refrigeration techniques.
4. Evaluate labelling methods by following the principles of food safety, sanitation and hygiene
5. To create awareness regarding sanitation of dishes, equipment and kitchen.

SEMESTER-V

Course – 18 C: Guidance and Counselling

I. Learning Outcomes:

Students after successful completion of the course will be able to:

1. Understand the concepts, scope, need and importance of guidance and counselling.
2. Acquire a critical knowledge on techniques and process of counselling.
3. Demonstrate skills required in counselling.
4. Understand the role and characteristics of an effective counsellor.
5. Comprehend the problems of children and adolescents in need of counselling.

SEMESTER-V

Course- 19 C: Education and Counselling For Parents and Community

I. Learning Outcomes:

1. Understand the need and importance of parent education
2. Get acquainted to the concept of community education

3. Understand the techniques of imparting parent education programme.
4. Develop educational materials and apply skills to plan, conduct and organize parent education programmes in community and PTA meetings in school.

SEMESTER-V

Course 20 A: INTERIOR DESIGN AND DECORATION

I. Learning Outcomes

At the end of the course the students will be able to:

1. Remember and explain in a systematic way the difference between interior design and decoration
2. Understand and use the elements and principles to create beautiful designs & interiors
3. Critically explain the nuances of Indian interior design work in prescribed areas under co-curricular activity
4. Application of the principles and elements in creating beautiful landscape
5. Acquire computer skills to be able to render the planned interiors using AutoCAD

Course 21 A : TEXTILE DESIGN

I. Learning Outcomes

At the end of the course the students will be able to:

1. Remember and explain in a systematic way the Principles of design, elements, classification and its importance in textile design.
2. Understand the different types of fibers and fabrics.
3. Analyse the structure of loom and classification of weaves.
4. Identify the types of weaves (Basic weaves and decorative weaves).
5. Critically explain & judge: The estimation of designs suitable for dyeing and printing, dye paste requirement, and also estimation of suitability of material.

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Department of History 2021-22

Course outcomes, Program Specific outcomes

In this Under – graduate course we aim to provide well – versed knowledge in all aspects of History. To understand our age-old History, culture, traditions and customs to build up the student character. It improves values in day – to – day life to become a good citizen of country. The syllabus is framed by the **Andhra Pradesh State Council of Higher Education** and **Adikavi Nannaya University, Rajamahendravaram approved** with the help of great subject experts in such a way that fulfil the gap between Intermediate and post – Graduate Levels of History. It has been providing knowledge to the student to appear all levels of competitive examinations.

- To Teach Subject of History in good quality at under graduate level and bring out graduates as public servants as well as researchers and academicians of the future.
- To attract outstanding students' growth in social sciences and Arts.
- To provide good academic atmosphere on which the students have the opportunity to improve their knowledge.
- To maintain good academic standards in teaching of History.
- **HISTORY Paper- V (Core Paper) Fifth Semester**
- **AGE OF RATIONALISM AND HUMANISM THE WORLD BETWEEN 15TH& 18TH CENTURIES (*History of Modern World (1453 – 1821 A.D)***

- **Course out comes**:
- 1.The student understands the Feudalism -Geographical Discoveries: Causes. How Portugal Leads and Western World Follows
- 2.The student observe the relati9ons between USSR AND East European Countries.
- 3.The student is analysing the Renaissance Movement: - Transformation from Medieval to Modern World; Reformation & Counter Reformation Movements.
- 4.The student is Aware of the American Revolution (1776) – Opening of New World – Declaration of Independence, 1776.

- 5.The student understand the French Revolution (1789) – Causes and Results.

HISTORY Paper- VI (Core Paper) Fifth Semester

History & Culture of Andhra Desa (from 12th to 19th Century A.D.)*(History and Culture of Andhra from Satavahanas to 1857 A.D*

Course out comes:

1. The student is understanding the Andhra during 12th& 13th Centuries A.D.: Kakatiya's and their socio-economic conditions. Architecture & Sculpture. The Age of Reddy Kingdom
2. The student Observe the Andhra between 14th & 16th Centuries A.D.: Vijayanagara Empire- Sri Krishna Devaraya and his contribution to Andhra Culture – Development of Literature & Architecture.
3. The student is Compare the Andhra through 16th& 17th Centuries A.D.: Evolution of Composite Culture - The QutbShahis of Golkonda

4.Student is Aware on the 18th & 19th Centuries in Andhra: East India Company's Authority over Andhra – Three Carnatic Wars – Occupation of Northern Circars and Ceeded Districts

5.To analysis the 18th& 19th Centuries in Andhra: Impact of Company Rule on Andhra.

HISTORY Paper – VII-(A): (Elective Paper) Semester-VI HISTORY OF MODERN EUROPE (from 19th Century to 1945 A. D.) ***History of Modern World (1821 – 1945)***

Course out comes:

1.The student compare the conditions of Industrial Revolution before and after in Europe

2.To understand the Unification Movements in Europe

3.To analysis the Unification Movements in Europe

4.The student is aware of causes and Results of World Wars.

5.Acquire Knowledge of UNO and its Functions

HISTORY Paper – VIII-A-1 (Cluster Elective Paper –1) Sixth Semester

CULTURAL TOURISM IN ANDHRA PRADESH

Course out comes:

1.The student Understand the basic Concepts of Tourism

2.The student is Compare the types of Tourism

3.To Acquire Knowledge of History and Tourism Relationship

4.The student is developing the communication skills as the trainer of Tourist Guide.

5. Practical Knowledge about Field Trip

HISTORY Paper – VIII-A-2 (Cluster Elective Paper –2) Sixth Semester

POPULAR MOVEMENTS IN ANDHRA DESA (1848 TO 1956 A.D.)

(History and Culture of Andhra from 1857 to 2014)

Course out comes:

1.The student understands the Socio Religious Movements in Andhra, special reference to Kandukuri Veeresalingam.

2.The student Observe the Vandemataram Movement in Andhra special reference to Arts College Incident

3 The student is Compare the three phases of Freedom Struggle in Andhra

4 Student is Aware on the Gandhian Period.

5.To analysis the separation of Andhra State and Formation of Andhra Pradesh

HISTORY Paper – VIII-A-3 (Cluster Elective Paper –3) Sixth Semester

COMTEMPORARY HISTORY OF ANDHRA PRADESH (1956-2014)

Course out comes:

1.The student Understand the Socio-Economic Changes in Andhra Pradesh – River Projects & Infrastructural Development-Regional Politics – Emergence of Telugu Desam Party.

2. The student is Compare the Growth of Leftist Ideology – Marxist & Radical Literature. Naxalbary Movement

3. To Acquire Knowledge of Dalit Movement, Struggle for Identity – Demand for Political Space.

4. The student aquires knowledge on Jai Telangana Movement (1969) – Mulki Rules – Legal Battle - Jai Andhra Movement (1972) – Six Point Formula (1973).

5. The student gains knowledge on Bifurcation of Andhra Pradesh: Power Politics- Telangana Rastra Samiti – Movements for separate Telangana & unified Andhra Pradesh – Formation of Telangana State (2014).

New syllabus

Semester: I

Ancient Indian History & Culture (From Indus Valley Civil. to 13 Century A.D)

Course Outcomes:

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

- Identify and define various kinds of sources and understand how history books are shaped
- Compare and contrast various stages of progress from IVC to Vedic age and analyse the Jain, Buddhist and Vedic faiths
- Increase the awareness and appreciation of Transition from Territorial States to Emergence of Empires
- Analyse the emergence of the Mauryan and Gupta empires during the "classical age" in India
- Evaluate the key facets of ancient society, polity and culture in South India—the feudalism, and the rise of technology and commerce.
- Critically examine the nature of monarchic rule and develop a comprehensive understanding of cultural evolution during ancient period
- Visualize where places are in relation to one another through map pointing

Semester: II

Medieval Indian History & Culture (1206 A.D To 1764 A.D)

Course Outcomes:

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

- Understand the socio, economic and cultural conditions of medieval India
- Describe the advent of Islam in India and study the traces of political and cultural expansion of Turks & Afghans
- Explain the Administration and art and architecture of Vijayanagar Rulers, Mughals and also analyse the rise of the Marathas and the contribution of Shivaji
- Evaluate the establishment of the British rule in India and understand the dangerous consequences disunity at all levels
- Analyse the emergence of composite culture in Indian
- Visualize where places are in relation to one another through map pointing

Semester: III

Modern Indian History & Culture (1764-1947 A. D)

Course Out comes:

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

- Unearth the true nature of the British rule and its disastrous impact on Indian economy and society
- Gauge the disillusionment of people against the Company's rule even during the early 19th century
- Assess the causes and effects of Reformation movements and also inspire the public to overthrow inequalities of the present-day society
- Rise above petty parochial issues after understanding the sacrificial saga of freedom struggle
- Evaluate the undercurrent of communal politics that led to India's partition and identify the enemies of India's integrity and sovereignty
- Visualize where places are in relation to one another through map pointing

Semester: IV Paper - IV

History & Culture of Andhra (from 1512 to 1956 AD)

Course Out comes: After successful completion of this course, the student will be able to:

• Interpret social and culture transformation from medieval to modern Andhra

• Relate key historical development during medieval period occurring in costal Andhra and Telangana regions and analyse socio-political and economic changes under Qutbshahi rules

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

. • Explain how the English East India company became the most dominant power and outline the impact of colonial on different aspects in Andhra.

• Outline the issues related to caste, women, widow remarriage, child marriage, social reforms and the laws and policies of colonial administration towards these issues.

• Take pride in the non-violence struggle for Indian Independence and relate the important of peace in every life

. • Apply the knowledge of the regional history to understand the regional, linguistic and other cultural aspirations of the present-day society

• Visualize where places are in relation to one another through map pointing

History of Modern World (From 15th Cen. To 1945 A.D)

Paper-V Semester - IV

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

• Demonstrate advanced factual knowledge of world histories, politics, and cultures

• Assess and appraise the developments in art, literature, and society during the Renaissance and utilize content knowledge of the Reformation and Counter Reformation to make predictions about the evolution of Christianity in Europe and abroad.

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

• Understand the main events of the French Revolution and its significance in the shift in European culture from Enlightenment to Romanticise.

• Think how Russia's traditional monarchy was replaced with the world's first Communist state.

• Know how the world wars affected people all over the world and the destruction they caused.

• Develop the intellectual curiosity and habits of thought that will lead to life-long learning and continued engagement with European history, literature, culture, languages, and current affairs and acquire advanced international and intercultural competency through coursework in international studies.

• Visualize where places are in relation to one another through map pointing.

Program Specific Outcomes Department of History PSOs of B.A History

PSO 1. Understand background of our religion, customs institutions, administration and so on.

PSO 2. Understand the present existing social, political, religious and economic conditions of the people.

PSO 3. Analyse relationship between the past and the present is lively presented in the history.

PSO 4. Develop practical skills helpful in the study and understanding of historical events.

They: • (a) Draw historical maps, charts, diagrams etc. • (b) Prepare historical models, tools etc.

PSO 5. Develop interests in the study of history and activities relating to history.

They: • (a) Collect ancient arts, old coins and other historical materials;

• (b) Participate in historical drama and historical occasions; •

(c) Visit places of historical interests, archaeological sites, museums and archives;

- (d) Read historical documents, maps, charts etc.
- (e) Play active roles in activities of the historical organizations and associations; and
- (f) Write articles on historical topics.

PSO 6. The study of history helps to impart moral education.

PSO 7. History installs the feeling of patriotism in the hearts of the pupils.

1. Understand the basic themes, concepts, chronology and the Scope of Indian History.
2. Acquaint with range of issues related to Indian History that span distinct eras.
3. Understand the history of countries other than India with comparative approach.
4. Think and argue historically and critically in writing and discussion.
5. Prepare for various types of Competitive Examinations
6. Critically recognize the Social, Political, Economic and Cultural aspects of History

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Code of conduct & SOPs:

STANDARD OPERATING PROCEDURES (SOP):

Teaching Plan:

- Staff members decide approximately the number of classes required for the completion of a particular unit of syllabus.
- In harmony with the Programme and Course outcomes staff must identify learning objectives in that particular unit of syllabus.
- Prepare Teaching plan and notes accordingly based on the expected number of classes for that unit.
- Teaching diary and notes must be submitted to principal on or before 5th of every month duly signed by Head of the Department.
- Identify suitable assignments, Seminars and Study Projects

Conducting Classes:

- Every staff member handles a class for a specified period of time i.e., 60 minutes.
- If Any Staff Member is going on leave, their class work must be adjusted and missed classes must be compensated.
- Must mark Student attendance

Student Attendance Policy:

- It must be ensured that the faculty member records the cumulative attendance for the month in the concerned department by the end of every month and posted in the central attendance register.
- Students Must have A cumulative attendance percentage of 75 and above in order to be eligible to collect Hall Ticket
- Students who fall in between 75% to 65% of attendance are allowed under medical grounds after producing the medical certificate.

Examinations:

Mid Examinations- Theory:

- Staff must collect answer Scripts and evaluate within 10days of conducting of examinations
- Review the overall performance of the students and identify the students whose performance in examinations is poor
- The counsellors must be informed about the poor performance of the students and guidance must be provided to them to perform better in the following examinations.
- Enter the marks in the registers / sheets provided by the COES
- Returning the Continuous Internal Assessment marks sheet within the stipulated time.

Remedial Coaching/Work:

- Preparation of time tables for classes after normal class hours by identifying free slots in existing time tables.
- Allotment of faculty for required subjects.
- Subject allotment information to be sent to the respective faculty members.
- Extra classes can be conducted for the slow learners/ students for the required subjects/topics.
- For students with backlogs, extra classes can be conducted for the required subjects.
- Classes are conducted according to the schedules specially prepared for the remedial classes.
- An attendance register is maintained

Bridge Courses:

- All the departments in BA Programme conduct a bridge course for the first-year students who comes
- Bridge course will be of 10 days duration.
- A test would be conducted at the beginning (entry level) as well as at the end of bridge of the course to assess the learning levels of student in the concerned subject.

Student Progress Policy:

- Under the Tutor ward system each faculty member is assigned a class of students to interact and know the educational progress.
- Tutor has to observe the behaviour and nurture the students for Overall Progress in curricular, co-curricular and Extracurricular activities.
- Remedial classes are to be conducted to the students based on their performance in the previous semester and Internal examinations

Career Guidance & Counselling:

- Students are guided on choosing higher education in the concerned subject.
- Awareness on various career opportunities in the subject and Programme are to be created by arranging guest lectures by experts in the field.

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SEM I, II&III SECOND LANGUAGE - 2021-2022
Program Specific and Course Outcome

Hindi Department Course Outcome Paper I,II&III

CO 1 : Understanding the origin of Hindi language and its literature.

CO 2 : Identifying the dialects of Hindi language family.

CO 3: Analyzing the development of Khadiboli Hindi.

CO 4: Understanding the concept of history of literature.

CO 5: Understanding the basis of the classification of Hindi literature.

CO 6: Understanding the importance and basis of the names given to each period of Hindi literature

CO 7: Understanding the features of Aadikal, Bhakti kal, Ritikal and Aadhunikkal, in context of socio - cultural and political condition of that period.

CO8: Identifying the eminent Hindi writers of each period.

CO 9: Understanding the reason of emergence of Adhunikkal in Hindi literature.

CO 10: Understanding the literary trends of Adhunik kal.

CO 11: Understanding the history of development of Hindi drama, short stories and novels.

CO 12 : Understanding the discourse of women and dalits in Hindi literature.

CO: 13 Understanding the role played by the poets of Bhakti cult in literature and society.

B.Com General

1st Semester:

Course1A: Fundamentals of AccountingLearning

Outcomes:

- At the end of the course, the student will able to;
- At the end of the course, the student will able to learn
- Identify transactions and events that need to be recorded in the books of accounts.
- Equip with the knowledge of accounting process and preparation of final accounts of sole trader.
- Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP.
- Analyze the difference between cash book and pass book in terms of balance and make reconciliation.
- Critically examine the balance sheets of a sole trader for different accounting periods.
- Design new accounting formulas & principles for business organisations.

Course 1B: Business Organization and Management

Learning Outcomes:

- Understand different forms of business organizations.

- Comprehend the nature of Joint Stock Company and formalities to promote a Company.
- Describe the Social Responsibility of Business towards the society.
- Critically examine the various organizations of the business firms and judge the best among them.
- Design and plan to register a business firm. Prepare different documents to register a company at his own.
- Articulate
- new models of business organizations.

Course 1C: Business Environment

Learning Outcomes:

At the end of the course, the student will able to;

- Understand the concept of businessenvironment.
- Define Internal and External elements affecting businessenvironment.
- Explain the economic trends and its effect on Governmentpolicies.
- Critically examine the recent developments in economic and business policies of the Government.
- Evaluate and judge the best business policies in Indian businessenvironment.
- Develop the new ideas for creating good businessenvironment.

IInd SEMESTER

Course 2A: Financial Accounting

Learning Outcomes:

At theend of the coursethe student will able to;

- Understand the concept of consignment and learn the accounting treatment of the various aspects ofconsignment.
- Analyze the accounting process and preparation of accounts in consignment and joint venture.
- Distinguish Joint Venture and Partnership and to learn the methods of maintaining records under JointVenture.
- Determine the useful life and value of the depreciable assets and maintenance of Reserves in businessentities.
- Design an accounting system for different models of businesses at his own using the principles of existing accountingsystem.

Course 2B: Business Economics

Learning Outcomes:

At the end of the course, the student will able to;

- Describe the nature of economics in dealing with the issues of scarcity ofresources.
- Analyze supply and demand analysis and its impact on consumerbehaviour.
- Evaluate the factors, such as production and costs affecting firms behaviour.
- Recognize market failure and the role of government in dealing with thosefailures.

- Use economic analysis to evaluate controversial issues andpolicies.
- Apply economic models for managerial problems, identify their relationships, and formulate the decision making tools to be applied forbusiness.

Course 2C:Banking Theory and Practice

Learning Outcomes:

At the end of the course, the student will able to;

- Understand the basic concepts of banks and functions of commercialbanks.
- Demonstrate an awareness of law and practice in a bankingcontext.
- Engage in critical analysis of the practice of bankinglaw.
- Organize information as it relates to the regulation of banking products andservices.
- Critically examine the current scenario of Indian Bankingsystem.
- Formulate the procedure for better service to the customers from various banking innovations.

IIIRD SEMESTER

DSC 1 C - Advanced Accounting(General &Computer Applications)

Learning Outcomes:

- At the end of the course, the student will able to:
- Understand the concept of Non-profit organisations and its accounting process.
- Comprehend the concept of single-entry system and preparation of statement of affairs.
- Familiarize with the legal formalities at the time of dissolution of the firm

.

- Prepare financial statements for partnership firm on dissolution of the firm.
- Employ critical thinking skills to understand the difference between the dissolution of the firm and dissolution of partnership.

DSC 2 C BUSINESS STATISTICS (General &Vocational)

Learning Outcomes:

At the end of the course, the student will able to:

- Understand the importance of Statistics in real life.
- Formulate complete, concise, and correct mathematical proofs.
- Frame problems using multiple mathematical and statistical tools, measuring relationships by using standard techniques.
- Build and assess data-based models.
- Learn and apply the statistical tools in day life.
- Create quantitative models to solve real world problems in appropriate contexts.

DSC 3C - Marketing (General only)

LearningOutcomes:

At the end of the course, the student will able to:

- Develop an idea about marketing and marketing environment.
- Understand the consumer behaviour and market segmentation process.
- Comprehend the product life cycle and product line decisions.
- Know the process of packaging and labeling to attract the customers.
- Formulate new marketing strategies for a specific new product.
- Develop new product line and sales promotion techniques for a given product.
- Design and develop new advertisementsto given products.

IV SEMESTER

BUSINESS LAWS (General & Computer Applications)

Learning Outcomes:

At the end of the course, the student will able to:

- Understand the legal environment of business and laws of business.
- Highlight the security aspects in the present cyber-crime scenario.
- Apply basic legal knowledge to business transactions.
- Understand the various provisions of Company Law.
- Engage critical thinking to predict outcomes and recommend appropriate action on issues relating to business associations and legal issues.
- Integrate concept of business law with foreign trade.

INCOME TAX (GENERAL & VOCATIONAL)

Learning Outcomes:

At the end of the course, the student will able to:

- Acquire the complete knowledge of the tax evasion, tax avoidance and tax planning.
- Understand the provisions and compute income tax for various sources.
- Grasp amendments made from time to time in Finance Act.
- Compute total income and define tax complicacies and structure.
- Prepare and File IT returns of individual at his own.

AUDITING (GENERAL & VOCATIONAL)

Learning Outcomes:

At the end of the course, the student will able to:

- Understanding the meaning and necessity of audit in modern era.
- Comprehend the role of auditor in avoiding the corporate frauds.
- Identify the steps involved in performing audit process.
- Determine the appropriate audit report for a given audit situation.
- Apply auditing practices to different types of business entities.
- Plan an audit by considering concepts of evidence, risk and materiality

CORPORATE ACCOUNTING

Learning Outcomes:

At the end of the course, the student will able to:

- Understand the Accounting treatment of Share Capital and aware of process of book building.
- Demonstrate the procedure for issue of bonus shares and buyback of shares.
- Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.
- Participate in the preparation of consolidated accounts for a corporate group.
- Understand analysis of complex issues, formulation of well-reasoned arguments and reaching better conclusions.
- Communicate accounting policy choices with reference to relevant laws and accounting standards.

COST AND MANAGEMENT ACCOUNTING

Learning Outcomes:

At the end of the course, the student will able to:

- Understand various costing methods and management techniques.
- Apply Cost and Management accounting methods for both manufacturing and service industry.
- Prepare cost sheet, quotations, and tenders to organization for different works.
- Analyze cost-volume-profit techniques to determine optimal managerial decisions.
- Compare and contrast the financial statements of firms and interpret the results.
- Prepare analysis of various special decisions, using relevant management techniques.

GOODA AND SERVICE TAX

Learning Outcomes:

At the end of the course, the student will able to:

- Understand the basic principles underlying the Indirect Taxation Statutes.
- Examine the method of tax credit. Input and Output Tax credit and Cross Utilisation of Input Tax Credit.
- Identify and analyze the procedural aspects under different applicable statutes related to GST.
- Compute the assessable value of transactions related to goods and services for levy and determination of duty liability.
- Develop various GST Returns and reports for business transactions in Tally.

Semester V (w.e.f. 2017-18)

5.1 Business Leadership(General)

Learning Out comes:

- To facilitate the students to learn the concepts of business leadership. After reading three units students should have learn about
- Leadership traits, skills and styles, leadership development.
- Decision making and leadership, power influence.
- Leadership in business organisation, organizational culture.
- Leadership for sustainability, special topics.

5.2 :COST ACCOUNTING (General & Vocational)

Learning Out comes:

- This paper enables the students to get knowledge in various cost concepts

in Cost Accounting. From this the student can learn-

- Various concepts of Cost accounting and how to compute the Total cost and Profit/Loss.
- Various methods of pricing of Issuing material and various stock levels to be maintained in the store.
- Various methods of wage payment and incentive bonus schemes.
- Allotment and Apportionment of Overheads.
- The Accounting treatment in Process Costing.
- Various costing techniques like Marginal Costing and Standard costing.

Banking Theory & Practice B.COM. (VOCATIONAL ONLY)

Learning Out comes:

Students gain knowledge in-

- Central banks and commercial banks.
- The opportunity to acquire and develop key skills.
- Development brokerage, mortgage, banking and investment daily Industries.
- Collecting banker pays to the customer the amount of the cheque of credits.
- Different types of customers and its relationship.

Commercial geography:

Learning Out comes:

- To understand the scope and content of Commercial Geography in relation to spatial distribution of Agriculture, Forest Resources and Industrial Production.
- To acquaint the students about dynamic aspects of Commercial Geography.
- To acquaint the students about dynamic Nature of Industrial Field in India.
- To make the students of commerce aware about the relationship between the Geographical Factors and Economic Activities.

DSC F 5.5 Purchase Management

Learning Out comes:

- Students will be able to understand-
- he supply management including the services of DGS&D.
- The issue of tenders and process involved in it and preparation of tenders and filling up of tender documents.
- Various buyer-seller relationships like transactional, cooperative and alliance.
- Supply chain management with JIT.

DSC F 5.5 Central Banking(Elective)Learning Out

comes:

Students gain knowledge in-

- Central banks and commercial banks.
- The opportunity to acquire and develop key skills.

- Development brokage, mortage, banking and investment daily Industries.
- Collecting banker pays to the customer the amount of the cheque of credits.
- Different types of customers and its relationship.

DSC F 5.6 Stores ManagementLearning Out comes

Students will be able to understand -

- Stores functions and relationship with other Departments.
- Recent developments in material issues.
- Stock controlling techniques.
- Health and Safety directives on stores operations.
- Preparation of procedure manuals relating to Stores.

5.6 Rural Farm Credit

Learning Out comes:

Students gain knowledge in

- What is Rural credit & Farm Credit
- The opportunity to acquire and develop key terminology.
- Sources of Rural and Farm Credit.
- Different types of Lending Institutions for Rural and Farm Credit.
- Strategies for Growth and analysis of Farm Credit.

Semester VI (w.e.f. 2017-18)

DSC 1 G 6.2 : Marketing (General & Vocational)

Learning Out comes:

By learning the subject the student can get knowledge in the activities of manufacturer after production. This paper is helpful in Post graduation level also. The student can learn-

- Various concepts of marketing and its environment.
- The buying decision process and various marketing segments.
- About the dealing of new products, product mix and product linedecisions.
- The attitude of marketing personnel in pricing decisions.
- Promotional and distribution activities of marketing department of aconcern.
- It helps the student to enter into any marketing profession.

DSC 2G 6.3 Auditing (General & Computer Applications)

Learning Out comes:

The students are able to know and understand -

- The role of auditor in checking corporate frauds.
- Different types of audit and planning of audit before commencing auditin any company/ organization .
- Vouching of transactions as a part of investigation.
- Preparation of audit report following relevant provisions of CompaniesAct, 2013.

DSC 3G 6.4 : Management AccountingLearning Out comes:

This Subject enables the student to learn about various techniques followed by the manufacturer . This subject is also helpful to the student in Post graduation level. From this paper the student can learn-

- Analysis of various financial statements.
- Analysis and interpretation of Accounting Ratios.
- To prepare the funds flow statements and Cash flow statements.
- The application of Marginal costing techniques.

Tally with GST (B.Com Vocational)

Learning Out comes:

To enable the students learn -

- About GST introduced recently and its feasibility over VAT .
- Computation GST using Tally and filing of quarterly filling returns.
- Latest amendments, GST Council

DSC H 6.5 : Agricultural and Rural Marketing

Learning Out comes:

Students are able to know and learn-

- Rural markets and agricultural yards.
- Rural vsUrban consumer.
- Problems and challenges in agricultural marketing.
- Agricultural mechanism to support farmers.
- Role of Government and Non government agencies in development ofrural markets and agriculture.

DSC H 6.5 - Financial ServicesLearning Out comes:

Students are able to know and learn-

- Role of Financial Services.
- Need and Importance , Types of Financial services
- Problems and challenges faced by Finacial Service Organizations.
- Role of Government and Non government agencies in development ofrural markets and agriculture

DSC H 6.6 - Warehouse Management

Learning Out comes:

The students will be able-

- Understand different warehouse managing systems.
- Prepare and maintain inventories ,
- Understand the risk factors in ware house management and designs hisown measures, for safety and security.
- Understand different warehousing practices .
- Solve problems that arise in warehouse management .

DSC H 6.6 - Marketing of Financial ServicesLearning Out Comes:

Student able to learn

- Financial services meaning and their Role
- Pricing strategis adopted
- Marketing mix of financial services.

DSC H 6.5 - Financial Services

Learning Out comes:

Students are able to know and learn-

- Role of Financial Services.
- Need and Importance , Types of Financial services
- Problems and challenges faced by Finacial Service Organizations.
- Role of Government and Non government agencies in development of rural markets and agriculture

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COURSE OUTCOMES (COs)

Course-level learning outcomes

Some examples of course-level learning outcomes relating to courses within B.Sc. Chemistry programme are indicated in the following sections:

FIRST YEAR

SEMESTER – I

CHE 1303 (Theory): Inorganic & Organic Chemistry - I

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

P-Block elements

- Describe and compare the general characteristics of 13, 14, 15, 16 and 17 groups elements, and synthesis and structure determination of Diborane and Higher Boranes, Boron-Nitrogen compounds; silanes, silicones, graphitic compounds; hydrazine, hydroxylamine, phosphazenes.

- Classify the oxides based on chemical behaviour and oxygen content of Inter halogen compounds and pseudo halogens.

- Generalize and Demonstrate the basic theory and applications of organometallic alkylic compounds of Li and Mg elements.

CHE 1303P (Practical): Laboratory Course - I

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

- Acquire the skill in the qualitative inorganic analysis of simple salts.
- Determine the quantitative amounts of metal ion in inorganic metal salts.

SEMESTER – II

CHE 2303 (Theory): Physical & General Chemistry – II

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Solid State:

- Classify and describe different crystal structures by applying the laws of crystallography.
- Acquire the knowledge of defects in crystal lattices.

Gaseous State:

- Explain the behaviour of ideal gas and real gas and causes for deviation of real gases from ideality;
- Describe the relation between critical constants and van der Waal's constants; temperature inversion - Joule Thomson effect and Liquefaction methods of gases.

Liquid State:

- Demonstrate the qualitative description of liquid crystals.
- Illustrate the applications of liquid crystals in LCD devices.

Solutions:

- Explain the importance of Raoult's law in ideally dilute solutions.
- Recognize the significance of Henry's law and non-ideal solutions.
- Define the Azeotropic mixtures and illustrate the examples of HCl-H_2O, ethanol-water systems and fractional distillation.
- Explain the phenomenon of partially miscible liquids with examples – phenol - water, trimethylamine-water, nicotine-water systems. Effect of impurity on consulate temperature.
- Describe the basic concept and applications of distribution law.

Colloids and Surface Chemistry:

- Define colloids and significance of colloids preparatory uses.
- Illustrates the theoretical concepts and applications of adsorption by studying Freundlich, Langmuir adsorption isotherms.

Chemical Bonding:

- Illustrate the basis for chemical bonding and bon formations through VSEPR theory, Valence bond theory, Molecular orbital theory – LCAO method.
- Construct the M.O. diagrams for homo-nuclear and hetero-nuclear diatomic molecules (N_2, O_2, CO and NO).

Stereochemistry of Carbon Compounds:

- Illustrate the molecular representations of Wedge, Fischer, Newman and Saw-Horse formulae.
- Define stereoisomerism, stereoisomers, enantiomers, diastereomers with examples.
- Define conformational and configurational isomerism with special reference to ethane and n-butane.
- Describe optical activity- wave nature of light.
- Differentiate between visible light and plane polarized light, and interaction with molecules.
- Differentiate between optical rotation and specific rotation.
- Definition of chirality and chiral molecule; criteria for absence of plane, center, and Sn axis of symmetry - asymmetric and dissymmetric molecules with examples.
- Definition of Chiral centers**;** calculating number of enantiomers and mesomers; CIP rules for R, S nomenclature.
- Definition of Diastereomers, geometrical isomerism with reference to alkenes - cis, trans and E, Z- configuration.

CHE 2303P (Practical): Laboratory Course – II

Qualitative Inorganic analysis and Inorganic Preparations:

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Qualitative Inorganic analysis:

- Demonstrate the skill of analyzing the Mixture salts containing two anions and two cations through group separation table.

Inorganic Preparations:

- Demonstrate the knowledge on preparation of metal salts required for the preparation of metal complexes using ligands maintaining under pH conditions.

SECOND YEAR

SEMESTER – III

CHE 3303 (Theory): Inorganic & Organic Chemistry – III

Inorganic Chemistry:

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Chemistry of d-block elements:

- Describe the general characteristics of d-block elements, stability on various oxidation states, their ability to form complexes, magnetic properties, catalytic properties and ability to form complexes.

Theories of bonding in metals:

- Explain the metallic properties and its limitations.
- Describes and differentiates between Valence bond theory, Free electron theory, limitations, Band theory, formation of bands, explanation of conductors, semiconductors and insulators.

Metal carbonyls and related compounds:

- Classify metal carbonyls, EAN rule, and determine the structures and shapes of metal carbonyls of V, Cr, Mn, Fe, Co and Ni.

Chemistry of f-block elements:

- Illustrates the chemistry of lanthanides - electronic structure, oxidation states, lanthanide contraction, consequences of lanthanide contraction, magnetic properties.
- Describe the chemistry of actinides - electronic configuration, oxidation states, actinide contraction, comparison of lanthanides and actinides.

Organic Chemistry:

Halogen compounds

- Discuss the stereochemistry and mechanisms for substitution and elimination reactions, and predict the effect of nucleophile, leaving group, and solvent on the relative rates of SN^1 versus SN^2 reactions, and E1 versus E2 reactions, as well as on the relative rates of substitution versus elimination.

Hydroxy compounds

- Nomenclate and classify hydroxy compounds, describe synthesis, properties and applications of alcohols, phenols, inter and intramolecular hydrogen bonding, able to present the reaction and mechanism of special reactions such as bromination, Kolbe-Schmidt reaction, Riemer-Tiemann reaction, Fries rearrangement, azocoupling, Pinacol-Pinacolone rearrangement.

Carbonyl compounds

- Classify and nomenclate aliphatic and aromatic carbonyl compounds, and draw the structure of the carbonyl group with bonding and hybridization.

- Write the synthesis and present of carbonyl group in aldehydes and ketones.
- Describe the nucleophilic addition reactions, base catalyzed named reactions, oxidation and reduction reactions of aldehydes and ketones.
- Perform the laboratory detection test for aldehydes and ketones.

Carboxylic acids and derivatives

- Demonstrate the classification and nomenclature of carboxylic acids, elucidate the preparatory methods, compare the relative acidities and demonstrate the physical and chemical properties with examples.

Active methylene compounds

- Discuss keto-enol tautomerism, Claisen condensation, Acid hydrolysis and ketonic hydrolysis of acetoacetic ester and malonic ester, synthetic application of mono, di and crotonic acids.

CHE 3303P (Practical): Laboratory Course -III

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Titrimetric analysis:

- Acquire the skill of preparing primary standards concentration, handling of apparatus, detection of end point etc.

Organic Functional Group Reactions:

- Identify the functional group present in the given organic compound by applying the concept of solubility followed by confirmatory tests.

SEMESTER – IV

CHE 4303 (Theory): Spectroscopy & Physical Chemistry – IV

Spectroscopy

- Explain how the absorption of energy by the molecules produces spectra which help in structure determination and identification of the molecules, and how this energy can initiate the photo-chemical reactions.

Physical Chemistry

Dilute solutions

- Explain the origin of Keq and its relation to fugacity and activity and apply these concepts to ideal and real solutions of electrolytes and non-electrolytes and to colligative properties.

Electrochemistry

- Apply the principles of electrochemistry to conductance, voltaic, and electrolytic systems.
- Provide a physical basis for Debye-Huckel theory.
- List the methods for arriving at a plausible mechanism and/or rate law based on kinetic information.
- Manipulate the gas laws to describe real and ideal gas behavior.
- Apply the steady-state hypothesis to obtain rate equations. Explain the basic principles of photochemical and radiation-chemical reactions.

Phase rule

- Explain how phase equilibria help in understanding the formation of various materials, allotropic forms of different substances

CHE 4303P (Practical): Laboratory Course - IV

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Physical Chemistry

- Determine the Critical Solution Temperature (CST), Conductance of strong acid vs strong base and weak acid vs strong base.

IR Spectral Analysis

- Identify the functional group by IR Spectral Analysis.

THIRD YEAR

SEMESTER – V

CHE 5301 (Theory): Inorganic, Organic & Physical Chemistry – V

Inorganic Chemistry:

Coordination Chemistry

Some examples of course-level learning outcomes that a student of this course is required to demonstrate are indicated below:

- Review the role played by transition metal complexes play in Inorganic Chemistry.
- Describe the structure and bonding theories, electronic and magnetic properties of the transition metal complexes and their kinetic studies.
- Explain the theories of bonding in coordination compounds and their experimental behaviour.
- Explain the CFSE & Isomerism of complexes with 4 and 6 coordination numbers.

Spectral and magnetic properties of metal complexes

- Recognize the types of magnetic behavior, spin-only formula and calculate the of magnetic moments through experimental determination.

Stability of metal complexes

- Explain the differences between Thermodynamic stability and kinetic stability, factors affecting the stability of metal complexes, and chelate effect.

Organic Chemistry:

Nitro hydrocarbons

Some examples of course-level learning outcomes that a student of this course is required to demonstrate are indicated below:

- Nomenclate and classify nitro hydrocarbons, preparation and explain the reactivity through some named reactions.

Nitrogen compounds

- Classify Amines into 1°, 2°, 3° Amines and Quaternary ammonium compounds.
- Present the preparative methods, basic character and separation by Hinsberg method.
- Discuss the electrophilic substitution of Aromatic amines – Bromination and Nitration, oxidation of aryl and Tertiary amines, Diazotization.

Physical Chemistry:

Thermodynamics

Some examples of course-level learning outcomes that a student of this course is required to demonstrate are indicated below:

- Apply the basic concepts of calculus to concepts in chemistry.
- Describe the Three Laws of Thermodynamics and their development.
- Use the Maxwell equations and other thermodynamic relations to compute thermodynamic quantities from thermodynamic data tables.
- Derive the relationships between thermodynamic quantities; Interpret phase diagrams and explain phase equilibria in terms of chemical potentials.
- Recognize the forces which drive the chemical reactions in forward direction and the concept of the interchange of energy in a system.

- Explain the use of electrical energy for initiating chemical reactions and also how chemical reactions can be utilized to produce electrical energy, and the basic principle used in the formation of cells and batteries.

CHE 5302P (Practical): Laboratory Course - V

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Organic Qualitative Analysis:

- Identify the functional group and derivatization of organic functional group in the given compound.

SEMESTER – V

CHE 5302 (Theory): Inorganic, Organic & Physical Chemistry – VI

Inorganic Chemistry:

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Reactivity of metal complexes:

- Discuss the importance of labile and inert complexes,
- Demonstrate the ligand substitution reactions - SN^1 and SN^2, substitution reactions of square planar complexes - Trans effect and applications of trans effect.

Bioinorganic chemistry:

- Recognize the significance of Essential elements and biological significance of Na, K, Mg, Ca, Fe, Co, Ni, Cu, Zn and Cl^-.
- Demonstrate the Metalloporphyrins – Structure and functions of hemoglobin, Myoglobin and Chlorophyll.

Physical Chemistry:
Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Chemical kinetics

- Define the rate of reaction, order and molecularity, demonstrate the rate laws.
- Derive the rate constants for first, second, third and zero order reactions and examples.

- Derive the for time half change, and
- Write the methods to determine the order of reactions.
- Discuss the effect of temperature on rate of reaction, Arrhenius equation, concept of activation energy.

Photochemistry

- Differentiate thermal and photochemical processes.
- Define and express the Laws of photochemistry- Grothus-Draper's law and Stark-Einstein's law of photochemical equivalence.
- Define quantum yield and photochemical reaction mechanism, qualitative description of fluorescence, phosphorescence, Photosensitized reactions- energy transfer processes

Organic Chemistry

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

Heterocyclic Compounds

- Define and discuss the synthesis, reactivity and applications simple five membered ring compounds with one hetero atom, viz., Furan, Thiophene and Pyrrole.
- Demonstrate the structure, synthesis and basicity of Pyridine, aromaticity and comparison with pyrrole.

Carbohydrates

- Elucidate the structure of Glucose and Fructose
- Examine the evidence for 2 - ketohexose structure, cyclic structure for glucose and fructose, osazone formation from glucose and fructose.
- Define of anomers with examples.

- Demonstrate the interconversions of Monosaccharides.

Amino acids and proteins

- Define and classify amino acids into alpha, beta, and gamma amino acids.
- Write the general methods of synthesis of alpha amino acids
- Discuss physical properties, Zwitter ion and isoelectric point.

CHE 5302P (Practical): Laboratory Course - VI

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

- Acquire the skill of determining the rate constant for first order reaction.
- Determine the molecular status and partition coefficient of benzoic acid in Benzene and water.
- Determine the of surface tension and viscosity of different liquids
- Verify the Freundlich adsorption isotherm by studying acetic acid on animal charcoal.

Analytical Methods in Chemistry (Semester – VI):

An example of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

- Demonstrate up-to-date analytical skills required to deal with the detection, identification, separation, and estimation of atomic, molecular, and ionic species in various states.

IT Skills for Chemists (Semester–III/ IV/ V/ VI): Proposed

Examples of course-level learning outcomes that a student of this course is required to demonstrate is indicated below:

- Formulate a set of calculations that can address a relevant research question;
- Use one or several computer programs and extract useful information;
- Write a research paper that describes methods, results, and interpretation;
- Assess the meaning and validity of calculations that appear in the chemical literature.

TEACHING AND LEARNING STRATEGY

Scheduled Teaching and Learning Methods:

- Foundational bridge course
- Lectures (Conventional chalk and talk, ICT enabled and Invited Guest Lectures)
- E-learning through MANA TV / Virtual classes
- Seminars/ Debates/ Quiz/ Group discussions
- Tutorials/ Remedial classes
- Practical workshops (skill development)
- Guided laboratory work
- Problem classes
- Industrial trips
- Professional skills events (State level/ National Level seminars & workshops)

Project and Placement Learning Methods

- Curriculum based individual project work
- Group research project work
- Career guidance programme

ASSESSMENT STRATEGY

Assessment Methods:

- Internal Assessment – 25 M (Average of two mid semesters – 15 M; Student seminars – 05 M; Assignments – 05 M)
- External Assessment – 75 M (Semester end written examination)
- Practicals – 50 M
- Project work - 50 M (VI Sem: Oral presentations / Written reports/ Literature reports)

Academic Feedback Policy

- At the end of odd semesters on the IQAC designed format

ASSESSMENT STRUCTURE

Marking Scheme

The pass mark for each assessment is 40%. However, there is no minimum pass mark for internal assessment.

INDICATIVE MODULE LIST

Semester	Course code	Course Title	Hrs./ Week	Credits	Max. Marks		
					Int	Ext	Total
FIRST YEAR							
I	CHE 1303	INORGANIC & ORGANIC CHEMISTRY - I	4	3	25	75	100
	CHE 1303P	LABORATORY COURSE - I	2	2	0	50	50
II	CHE 2303	PHYSICAL & GENERAL CHEMISTRY - II	4	3	25	75	100
	CHE 2303P	LABORATORY COURSE - II	2	2	0	50	50
SECOND YEAR							
III	CHE 3303	INORGANIC & ORGANIC CHEMISTRY - III	4	3	25	75	100
	CHE 3303P	LABORATORY COURSE - III	2	2	0	50	50
IV	CHE 4303	SPECTROSCOPY & PHYSICAL CHEMISTRY - IV	4	3	25	75	100
	CHE 4303P	LABORATORY COURSE - IV	2	2	0	50	50
THIRD YEAR							
V	CHE 5301	INORGANIC, ORGANIC & PHYSICAL CHEMISTRY-V	4	3	25	75	100
	CHE 5301P	Laboratory Course - V	2	2	0	50	50

	CHE 5302	INORGANIC, ORGANIC & PHYSICAL CHEMISTRY-VI	4	3	25	75	100
	CHE 5302P	Laboratory Course - VI	2	2	0	50	50
VI *Any one Paper from VII A, B and C	VII (A)*	lective **:** ANALYTICAL METHODS IN STRY	4	3	25	75	100
		Practical - VII A	2	2	0	50	50
	VII (B)*	Elective: ENVIRONMENTAL CHEMISTRY	4	3	25	75	100
		Practical - VII B	2	2	0	50	50
	VII (C)*	Elective: GREEN CHEMISTRY	4	3	25	75	100
		Practical - VII C	2	2	0	50	50
** Any one cluster from VIII, A, B and C	VIII (A)**	**Cluster Electives - I :**					
		VIII-A-1 POLYMER CHEMISTRY	4	3	25	75	100
		VIII-A-2 INSTRUMENTAL METHODS OF ANALYSIS	4	3	25	75	100
		VIII-A-3 ANALYSIS OF DRUGS, FOODS , DAIRY PRODUCTS & BIO-CHEMICAL ANALYSIS	4	3	25	75	100
		Practical Paper: VIII-A-1	2	2	0	50	50
		Practical Paper: VIII-A-2	2	2	0	50	50
		Practical Paper: VIII-A-3	2	2	0	50	50
	VIII (B)**	**Cluster Electives - II :**					
		VIII-B-1 FUEL CHEMISTRY AND BATTERIES	4	3	25	75	100
		VIII- B-2 INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE	4	3	25	75	100
		VIII-B-3 ANALYSIS OF APPLIED INDUSTRIAL PRODUCTS	4	3	25	75	100
		Practical Paper: VIII-B-1	2	2	0	50	50
		Practical Paper: VIII-B-2	2	2	0	50	50
		Practical Paper: VIII-B-3	2	2	0	50	50

	VIII (C)**	**Cluster Electives - III ::** ORGANIC SPECTROSCOPIC TECHNIQUES ADVANCED ORGANIC REACTIONS PHARMACEUTICAL AND MEDICINAL CHEMISTRY Practical Paper: VIII-C-1 Practical Paper: VIII-C-2 Practical Paper: VIII-C-3	4 4 4 2 2 2	3 3 3 2 2 2	25 25 25 0 0 0	75 75 75 50 50 50	100 100 100 50 50 50
		TOTAL	60	50	250	1250	1500

	VIII (C)**	**Cluster Electives - III ::** VIII-C-1 ORGANIC SPECTROSCOPIC TECHNIQUES VIII-C-2 ADVANCED ORGANIC REACTIONS VIII-C-3 PHARMACEUTICAL AND MEDICINAL CHEMISTRY Practical Paper: VIII-C-1 Practical Paper: VIII-C-2 Practical Paper: VIII-C-3	4 4 4 2 2 2	3 3 3 2 2 2	25 25 25 0 0 0	75 75 75 50 50 50	100 100 100 50 50 50
		TOTAL	60	50	250	1250	1500

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CV-M. SARMA

HEAD
DEPARTMENT OF CHEMISTRY
S.B.S. GOVT. DEGREE COLLEGE
JAGGAMPETA

ASD GOVERNMENT DEGREE COLLEGE (W)(A), KAKINADA

Department of English

Course Outcomes 2021- 2022

CO1	CO2	CO3	CO4	CO5	CO6
Knowledge	Understand	Apply	Analyse	Evaluative	Create

SEM-I: A COURSE IN COMMUNICATION AND SOFTSKILLS

(B.A. /B. Com./B. Sc.)

Course Outcomes:

- Recognise the importance of Communication in English (CO1)
- Relate English language communication in day-to-day situations, academics and professions. (CO2)
- Summarise the uses of Soft Skills in professional and daily life. (CO3)
- Use English receptive and productive skills (CO3)
- Use grammar effectively in writing and speaking (CO3)
- Use the tools of communicationskills confidently. (CO3)
- Correlate apt vocabulary in written and speech compositions. (CO4)
- Relate English communication to real-life situations. (CO5)
- Develop the correct accent to the needs of society.
- Design personal/institutional SWOT analysis. (CO6)

SEM-II: A COURSE IN READING AND WRITING SKILLS

(B.A. /B. Com./B. Sc.)

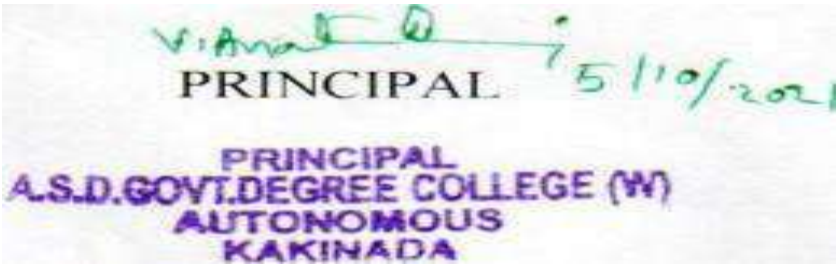
- Recognise the importance of Reading Skills (CO1)
- Compare and contrast different types of reading skills (CO2)
- Comprehend different texts ranging from fictitious inputs to authentic materials. (CO2)
- Paraphrase or summarise the lectures or written composition. (CO3)
- Use reading skills effectively (CO4)
- Use good writing strategies (CO4)
- Interpret different types of texts (CO4)
- Analyse what is being read (CO4)

- Build up a repository of active vocabulary and relate them to meet the purposes (CO4)
- Design constructive writing scripts based on needs (CO5)
- Develop varieties of writing compositions according to academic/social/professional needs (CO6)

SEM-III: A COURSE IN CONVERSATIONAL SKILLS

(B.A. /B. Com./B. Sc.)

- Identify the strategies to improve conversant skills. (CO1)
- Understand the use of English in social interactions. (CO2)
- Understand how to make effective speeches/give constructive responses in the interviews. (CO2)
- Apply conversational skills in academic/social/professional contexts in the form of interactions and interviews. (CO3)
- Use language skills accurately and fluently (CO3)
- Develop and demonstrate critical thinking skills and professional discourse (CO4)
- Compose various conversational skills and their usage in real-life situations. (CO5)
- Relate the given textual inputs to real-life situations (CO6)



A.S.D GOVT DEGREE COLLEGE FOR WOMEN (A)

(Re-Accredited by NAAC with'B')
KAKINADA 533002 EASTGODAVARI, ANDHRA PRADESH

COURSE OUTCOMES

SEMESTER – 1

- Explain origin of life on the earth.
- Illustrate diversity among the viruses and prokaryotic organisms and can categorize them.
- Classify fungi, lichens, algae and bryophytes based on their structure, reproduction and lifecycles.
- Analyze and ascertain the plant disease symptoms due to viruses, bacteria and fungi.
- Recall and explain the evolutionary trends among amphibians of plant kingdom for their shift to land habitat.
- Evaluate the ecological and economic value of microbes, thallophytes and bryophytes

SEMESTER – 2

- Classify and compare Pteridophytes and Gymnosperms based on their morphology, anatomy, reproduction and lifecycles.
- Justify evolutionary trends in Tracheophytes to adapt for land habitat.
- Explain the process of fossilization and compare the characteristics of extinct and extant plants.
- Critically understand various taxonomical aids for identification of Angiosperms.
- Analyze the morphology of the most common Angiosperm plants of their localities and recognize their families.
- Evaluate the ecological, ethnic and economic value of different tracheophytes and summarize their goods and services for human welfare.
- Locate different phytogeographical regions of the world and India and can analyze their floristic wealth.

SEMESTER-3

- Understand on the organization of Tissues and tissue systems in plants.

- Illustrate and interpret various aspects of embryology.
- Discuss the basic concepts of plant ecology, and evaluate the effectsof environmental and biotic factors on plant communities.
- Appraise various qualitative and quantitative parameters to study the populationand community Ecology.
- Correlate the importance of biodiversity and consequences due to its loss.
- Enlist the endemic/endangered flora and fauna from two biodiversity hot spots in India and assess strategies for their conservation.

SEMESTER – 4

- Comprehend the importance of water in plant life and mechanisms for transport of water and solutes in plants.
- Evaluate the role of minerals in plant nutrition and their deficiency symptoms. Interpret the role of enzymes in plant metabolism.
- Critically understand the light reactions and carbon assimilation processes responsible for synthesis of food in plants.
- Analyze the biochemical reactions in relation to Nitrogen and lipid metabolisms.
- Evaluate the physiological factors that regulate growth and development in plants
- Examine the role of light on flowering and explain physiology of plants under stress conditions.
- Distinguish prokaryotic and eukaryotic cells and design the model of a cell.
- Explain the organization of a eukaryotic chromosome and the structure of genetic material.
- Demonstrate techniques to observe the cell and its components under a microscope.
- Discuss the basics of Mendelian genetics, its variations and interpret inheritanceof traits in living beings.
- Elucidate the role of extra-chromosomal genetic material for inheritance of characters.
- Evaluate the structure, function and regulation of genetic material.
- Understand the application of principles and modern techniques in plant breeding.

- Explain the procedures of selection and hybridization for improvement of crops.

SEMESTER -5

- Distinguish prokaryotic and eukaryotic cells and design the model of a cell.
- Explain the organization of a eukaryotic chromosome and the structure of genetic material.
- Demonstrate techniques to observe the cell and its components under a microscope.
- Discuss the basics of Mendelian genetics, its variations and interpret inheritanceof traits in living beings
- Elucidate the role of extra-chromosomal genetic material for inheritance of characters.
- Evaluate the structure, function and regulation of genetic material.
- Understand the application of principles and modern techniques in plant breeding.
- Explain the procedures of selection and hybridization for improvement of crops.
- Knowledge created about ecological plant species, ecotypes
- Awareness created about Geographical distribution of plant species
- Detailed study about ultra-structure of cell is possible
- Plant genome study in structural and functional aspect is possible

SEMESTER – 6

- Study about tissue culture methods and applications are extensively studied with application point of view
- Plant biotechnology reveals new trends in plant sciences this was extensively studied
- Diversified plants are studied extensively
- Ornamental plants study is possible
- Secondary metabolites are studied from phytochemistry
- Medicinal plants are extensively studied from different species of plants

(K.N.V.S.N. Eswari)
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A.S.D GOVT. DEGREE COLLEGE FOR WOMEN (A)

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KAKINADA 533002 EASTGODAVARI, ANDHRA PRADESH

B.Sc HORTICULTURE for the Academic Year 2021-2022

COURSE OUTCOMES

semester-I

- Understand the scope and potential of horticulture products in India and Andhra Pradesh.
- Classify the horticulture plants based on soil and climate.
- Illustrate different systems of planting in an orchard and predict the number of plants in agiven land.
- Demonstrate the methods and types of training and pruning.
- Explain the basics of soil science and justify the role of soil as a medium for plant growth
- Explain about integrated nutrient management and demonstrate the skills of soil testing.

SEMESTER - II

- Explain sexual and asexual propagation methods of plants.
- Demonstrate skills on vegetative propagation of plants.
- Demonstrate the techniques on raising of different types of nursery beds
- Justify the role of various propagation structures used to raise horticulture plants.
- Understand the regulation to establish a plant nursery andquality parameters to be maintained.
- Implement different routine/regular activities in a nursery.
- Understand the economics of a plant nursery and can maintain necessary records.

SEMESTER – III

- Distinguish the growing of vegetables according to season and climate
- Get detailed knowledge on cultivation aspects of different vegetables
- Understand and explain the special intercultural operations done in vegetable crops
- Study of morphology and taxonomy of different vegetable crops
- Study of different varieties of vegetable crops
- Identify the diseases and pests of vegetable crops and their management

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SEMESTER - IV **COURSE –IV**

Realize the value of fruits in terms of human nutrition and economy of nation.

- Explain the potential fruit zones in various states of our country.
- Classify the fruiting plants based on temperature requirements.
- Acquire knowledge related to various cultivation practices for different fruit crops
- Demonstrate the special intercultural operations done in fruit crops
- Comprehend the knowledge on varieties of different fruit crops.
- Examine the pests and diseases of fruit crops and develop skills to manage the same,
- Explain about Integrated Orchard Management
- Develop knowledge on various entrepreneurial skills related to fruit science..

SEMESTER - IV, COURSE – V

- Develop a critical understanding of insect pests and plant disease symptoms.
- Examine and identify the pests and diseases of vegetable crops and their management
- Examine and identify the pests and diseases of ornamental crops and their management
- Examine and identify the pests and diseases of fruit crops and their management
- Identify and classify various insect pests on horticulture plants.
- Justify the significance of Integrated Plant Disease Management for horticultural crops.
- Classify the pesticides based on use, chemical nature, formulation, toxicity and action.

(K.N.V.S.N.Eswari)
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V. Annapurna Lakshmi
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KAKINADA

ADIKAVI NANNAYA UNIVERSITY
M. COM – SEMESTER-I

1CO1- CP – 101: PRINCIPLES OF MANAGEMENT

- It explains the primary functions of management.
- Describe current developments in management practices.
- Describe common frameworks used to evaluate the business.
- Explain the importance of employee motivation in an organization.

1CO2- CP – 102: BUSINESS ENVIRONMENT

- Understand the concept of business environment. Define Internal and External elements affecting business environment
- Explain the economic trends and its effect on Government policies.
- Critically examine the recent developments in economic and business policies of the Government.
- Evaluate and judge the best business policies in Indian business environment.

1CO3- CP – 103: BUSINESS ECONOMICS

- Describe the nature of economics in dealing with the issues of scarcity of resources. Analyze supply and demand analysis and its impact on consumer behaviour.
- Evaluate the factors, such as production and costs affecting firm's behaviour.
- Use economic analysis to evaluate controversial issues and policies.
- Apply economic models for managerial problems, identify their relationships, and formulate the.

1CO4- CP – 104 BUSINESS COMMUNICATION & SOFT SKILLS

- Demonstrate the use of basic and advanced business writing skills.
- Produce clear and concise written business documents.
- Develop interpersonal communications skills that are required for social and business interaction.
- Plan and conduct effective meetings.
- Employ proper public speaking techniques.

1CO5-CP- 105: ADVANCED MANAGEMENT ACCOUNTING

- To understand the concept of Non-profit organizations and its accounting process. Comprehend the concept of single-entry system and preparation of statement of affairs.
- To familiarize with the legal formalities at the time of dissolution of the firm.
- Prepare financial statements for partnership firm on dissolution of the firm.

- Employ critical thinking skills to understand the difference between the dissolution of the firm and dissolution of partnership.

ADIKAVI NANNAYA UNIVERSITY
M.COM. - SEMESTER II

2CO1-CP – 201: FINANCIAL MANAGEMENT

- To identify and interpret internal and external financial reports and financial statements
- Discuss how using financial statements and reports can improve strategic planning and decision making, and thus improve organizational performance
- Use time value of money and explain how the concept is used for decision making.
- Identify important accounting rules and principles (GAAP, FASB, depreciation, cash vs. accrual) and discuss how they impact corporate financial decisions and policies.
- Construct pro forma financial statements and report their use in managerial decision making.

2CO2- CP – 202: HUMAN RESOURCE MANAGEMENT

- Critically assess existing theory and practice in the field of HRM
- Apply knowledge about qualitative and quantitative research to an independently constructed piece of work
- Identify and apply new ideas, methods and ways of thinking
- Demonstrate competence in communicating and exchanging ideas in a group context.

2CO3- CP – 203: MARKETING MANAGEMENT

- To understand various facets of marketing management and to develop the ability to take decision and plan, execute and control marketing strategies towards attainment of organizational goals.
- Students shall be able to get introduced and understand the knowledge of marketing management with the need, importance and process of marketing planning and control, enhancing their ability for the dynamic nature of marketing.
- Attainment of organizational marketing goals.

2CO4-CP – 204: RESEARCH METHODOLOGY & QUANTITATIVE TECHNIQUES

- To understand Meaning of Research, identification and formulation of research problem.
- To Create Hypothesis and testing
- To understand the research design.
- To understand the different sampling methods and to identify methods of Data collection.

2CO5- CP 205: COMPUTER APPLICATION IN BUSINESS

- Apply critical thinking and analytical skills in decision- making and problem solving.
- Develop an understanding of the law and the legal environment as it relates to business operations, including its ethical implications
- Identify the basics of information technology and apply software applications to enhance efficiency of business functions.
- Demonstrate knowledge of basic economic concepts and how they affect business.

ADIKAVI NANNAYA UNIVERSITY

M.COM. - SEMESTER III

3CO1-CP- 301: MICRO FINANCE

- Understand the manner in which microfinance may be utilized to accelerate the expansion of local micro businesses;
- Be familiar with the process of finding loan recipients and delivering a microfinance pitch;
- Acquire communication and presentation skills to explain the project to local businesses and identify candidates
- Learn how to utilize economics, business and finance skills to promote small-business success

3CO2-CP 302: ENTREPRENEURSHIP DEVELOPMENT

- Discuss energy and environment issues
- Discuss global and local environment issues

- Urban energy planning and management
- Discuss rural energy planning and management
- Illustrate technological opportunities

3CO3-303 – AT 1: CORPORATE ACCOUNTING

- Understand the Accounting treatment of Share Capital and aware of process of book building.
- Demonstrate the procedure for issue of bonus shares and buyback of shares.
- Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.
- Participate in the preparation of consolidated accounts for a corporate group.
- Understand analysis of complex issues, formulation of well-reasoned arguments and reaching better conclusions.

3CO4-304 AT 2: STRATEGIC COST MANAGEMENT

- To describe the role of strategic management and the strategic management process.
- To understand about the techniques to scan an environment and the role of environment scanning in hurdle less strategic management of an organization.
- To enable them to formulate strategies relating to cost.
- To understand and formulate different strategies at business and corporate level.

3CO5- 305 AT 3: MANAGEMENT CONTROL SYSTEMS

- To identify and evaluate organizational challenges associated with the implementation of new control systems and / or changing existing control systems.
- To identify and reflect on the impact digitalization on MCS.
- To identify and reflect on ethical issues and dilemmas related to MCS.
- To demonstrate a profound knowledge of MCS that managers` are using to run businesses and direct behavior of individuals.

3CO6-306 FB 3: FINANCIAL DERIVATIVES

- To have a good understanding of derivative securities.
- To know the regulatory framework for Derivatives Market in India.
- To know how forward contracts, futures contracts, swaps and options work, how they are used and how they are priced

- To describe and explain the fundamental features of a range of key financial derivative instruments

M.COM. - SEMESTER IV

4CP- 401: FINANCIAL MARKETS AND SERVICES

- On successful completion of the course students will be able to
- Understand the role and importance of the Indian financial market.
- Apply and analyse the Concepts relevant to Indian financial markets and financial institutions. Understand and analyse the mechanics and regulation of financial instruments and determine how the value of stocks, bonds, and securities are calculated.
- Evaluate empirical evidence of the market performance and accordingly the role of regulatory authorities to develop the financial market.

4CP -402: CP 402: AUDITING AND ASSURANCE

- Evaluate the nature, purpose and scope of an audit and the legal, regulatory and ethical framework for auditing
- . Distinguish between the respective roles and responsibilities of directors and internal and external auditors
- . Demonstrate how the auditor obtains and accepts audit engagements and conducts a detailed investigation into an audit client to identify the risks of material misstatement (whether arising from fraud, error or other irregularities)
- Describe the nature of internal control systems of relevance to the audit, including IT systems.

4CP -403 : AT 2: DIRECT TAXES

- To identify the technical terms related to Income Tax.
- To determine the residential status of an individual and scope of total income.
- To enable the students to compute income under various heads namely income from salaries, house property, business/ profession, capital gains and income from other sources.
- To enable the students to compute the net total taxable income of an individual.

4CP-404: FB 1: ADVANCED BANKING

- To review the role that banks play in today's economy, and how changes in the role of banks are driving stakeholder priorities and bank strategy

- Formulate a view about how the bank business model is supporting its achievement of strategic priorities and principles
- Critically analyze the bank's balance sheet and income statement and appraise the significance of key changes in income, costs, assets and liabilities over the previous two financial years
- Examine how the perspectives of the bank's key external stakeholders impact the bank's strategy, and identify the key drivers of the bank's share price and credit rating.

4CP-405 FB 2: RURAL BANKING

- To provide loan for backward class public
- To opening branches of bank in rural areas.
- To save the rural poor from the moneylenders.
- To cultivate the banking habits among the rural people and mobilize savings for the economic development of rural areas.
- To increase employment opportunities by encouraging trade and commerce in rural areas.

4CP-406 FB 3: FINANCIAL INSTITUTIONS

- Defines the functions of financial markets and intermediary institutions.
- Explains why interest rates changes.
- Explains Efficient Market Hypothesis.
- Explains effects of asymmetric information on financial markets
- Explains the reasons of financial crisis.

- Formulate a view about how the bank business model is supporting its achievement of strategic priorities and principles
- Critically analyze the bank's balance sheet and income statement and appraise the significance of key changes in income, costs, assets and liabilities over the previous two financial years
- Examine how the perspectives of the bank's key external stakeholders impact the bank's strategy, and identify the key drivers of the bank's share price and credit rating.

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PRINCIPAL
A.S.D.GOVT.DEGREE COLLEGE (W)
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RAJAHMUNDRY

A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
RAJAHMUNDRY

A.S.D. GOVERNMENT DEGREE COLLEGE FOR WOMEN (A) KAKINADA
DEPARTMENT OF TELUGU
M.A. TELUGU
COURSE OUTCOMES

Semester I

Paper-I Telugu Bhasha Charitra

1. Introduce the origin of various world Language families and Indian, Dravidian Language families.

2. Synonyms of Telugu language, Telugu race, country, antiquity of languages.

Paper-II Telugu Sahitya Charitra

1. Recognize the antiquity and uniqueness of ancient Telugu literature, primitive poets in Telugu literature. Students can acquire knowledge of the linguistic cultures of the Nannaya, Shiva poets, Tikkana, Errana, Sreenatha, Pothana period.

2. Understand the religious conditions, linguistic features and political matters of the epic period.

Paper- III Andhrula Charitra -Samskruthi

1.Students get an opportunity to know about the ancient culture, Fine Arts with special reference of Kuchipudi, Classical Music, Sculpture in ancient temples.

2. History of Telugu literature, which is part of the history of the Telugu people, can be seen how it has been an integral part of the culture cherished by the Telugu people for ages.

Paper- IV Kavya Natakalu

1. students develop interest and taste in Telugu poetry and literature by studying the ancient poetic language and develop language ability and writing skills.

2. Students will know the values of famous Kavyas and Natakas and application to the present society.

Paper- V Janapada Vijnanam

1. Students will know the basic understanding of folklore, classification of folklore, types and contribution of Eastern and Westerners on folklore.

2. Folk songs Katha songs, historical songs will bring awareness about history and other things in the eyes of the people.

Semester II

Paper-I Telugu Bhasha Charitra

1.Relationship of Telugu with sister Dravidian languages, its membership in the Dravidian language family.

2. Synonyms of Telugu language, Telugu race, country, antiquity of languages.

Paper-II Telugu Sahitya Charitra

1.Recognize the antiquity and uniqueness of ancient Telugu literature, primitive poets in Telugu literature and can acquire knowledge of the linguistic cultures of the Prabhandha and Ksheena Yugas.

2. Understand the poetic forms, the views of ancient poets.

Paper- III Chandovyakaranalamkaralu

1. A unique grammar of Telugu is Bala Vyakarana. Students will have a proper understanding of Telugu grammar by reading the sections, Sanjna and Sandhi sections in it.

2. By reading the Alankaras with their differences, one can understand the poetics and the beauty of poetry.

Paper- IV Kavya Natakalu

1. students develop interest and taste in Telugu poetry and literature by studying the ancient poetic language and develop language ability and writing skills.

2. Students will know the values of famous Kavyas and Natakas and application to the present society.

Paper- V Sthree Vadam

1.Students will know about origin of Feminism and its importance in Telugu

2.Students learn about famous Feminist writers like Chalam, Volga, P.Sathyavathi etc.

Semester III

Paper-I Pracheena Sahitya Vimarsa Sidhdhanthalu

1. Study the literature by identifying the reasons for poetry, purposes of poetry, differences in poetry can be analysed.

2. By understanding the Rasa Sutra, one gets a taste for art.

Paper-II Navyandhra Kavitvam- Dalitha Sahityam

1. Study of modern literature in Telugu due to the influence of English language and its uniqueness is recognized.

2. Emergence of modern poetry, development of modern poetry, social movement poetry, Bhava and progressive poetry will be introduced to the students.

3.The literature of poets such as Gurjada, Kandukuri, Sri Sri, Vishwanatha, Joshua etc. will give the students a chance to understand the social reform done by them through their pen.

Paper- III Samanya Bhasha Sastram

1.Students study about the derivation of words, origin of sounds in human body.

2. Students will know about Phonetics, Morphology, syntax etc. in Telugu.

Paper- IV Journalism- Anuvadam

1.Students study about skills of Journalism like collecting of News, Reporting, Editing etc.

2. Students can acquire the knowledge of employability and entrepreneur skills.

Paper- V Kandukuri Veerasalingam

1.Students get awareness of religious, socio, political and literary conditions of 19th century through the life history of Sri Kandukuri Veerasalingam.

2. Social reforms of Veerasalingam i.e., Women education, Widow marriages.

3. Establishment of Magazines by Veeresalingam related to Social reforms.

Semester IV

Paper-I Adhunika Sahitya Vimarsa Sidhdhanthalu- Sutralu

1. Recognizing how arts and literature arise, the types of arts distinguish poetry.

2. Understand the poetic form, the views of ancient and modern poets.

3. Why is literature by identifying the reasons for poetry, purposes of poetry, differences in poetry

Paper-II Navyandhra Vachana Sahityam

1. To know the nature of modern Telugu literature as a result of the consequences of the influence of English language

2.Get social, cultural and political awareness through modern Telugu fiction literature. The birth and necessity of existentialist movements are recognized.

Paper- III Samanya Bhasha Sastram

1.Students study about the derivation of words, origin of sounds in human body.

2. Students will know about Phonetics, Morphology, syntax etc. in Telugu.

Paper- IV Samskrutha Sahitya Parichayam

1.Introduction of Sanskrit Literature and Ithihas

2. Students will know about Sanskrit Poets like Valmiki, Vyasa, Kalidasa, Bhasa, Magha etc.

Paper- V Mandalika Vijnanam

1. Students will know about the different dialects of Telugu Language.

2.Students will learn about Standard Dialect and Official Language.

3.Telugu as the medium of the instruction

Lec. in Telugu
03/04/23

PRINCIPAL
A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

A.S.D. GOVERNMENT DEGREE COLLEGE FOR WOMEN (A)
KAKINADA
DEPARTMENT OF TELUGU
M.A. TELUGU

S. No	Program Outcomes (POs)	Program Specific Outcomes (PSOs)
1.	The student will have an overview of all the relevant areas of Telugu studies.	1. The student will have acquainted themselves in the areas of language and literature. 2. The student will have thorough knowledge of History and culture of Telugu Literature along with folk and regional literature. 3. The student will have prepared themselves to be an effective teacher and researcher and be able to peruse research either in literature or in Language. 4. The will be able to think creatively and critically and conduct independent and original research h and integrate criticism into their own analyses.

Lecturer in Telugu
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