

A.S.D. GOVT. DEGREE COLLEGE FOR WOMEN (A), KAKINADA
DEPARTMENT OF ZOOLOGY & AQUACULTURE TECHNOLOGY
Curriculum and its Relevance to Local/Regional/ National/ Global
Developmental Needs 2022-2023

No of Programmes offered by the Department: 02

Total No. of courses across all programs offered by the Department: 11(Zoology) +
 07(Aquaculture Technology) = 18

BSc (Subject: ZOOLOGY)

COURSE CODE	COURSE TITLE	Local/ Regional / National /Global	Relevance of the Course
ZOO201306	Animal Diversity Biology of Non- Chordates	Regional/ National/ Global	Study of the general characters and classification of non-chordates gives an overview of their diversity, distribution, Evolution, and significance in maintaining Ecological balance. This knowledge is very much important for protecting the biodiversity and understanding that man is an integral part of nature. The curriculum throws light on the economic importance of Invertebrates through topics like Parasitic life cycles, Preparation of vermicompost, Beneficial, and harmful insects, different kinds of animal associations etc. Practical imparts the skills such as identification of invertebrates by observing their morphological characters, for understanding feeding and reproductive habits etc.
ZOO202306	Animal Diversity Biology of Chordates	Regional/ National/ Global	The study of general characters and classification of Chordates gives knowledge of and their Morphology, distribution, Evolution, adaptations to lead life in various habitats etc. The knowledge of identification of poisonous snakes and first aid and medical support in case of poisonous snake bite helps to save the lives of many people. Components such as Migration in fishes & birds give the knowledge of their Ethological aspects under different circumstances.
ZOO20306	Cell Biology, Genetics, Molecular Biology and Evolution	Regional/ National/ Global	The concepts of Cell Biology such as cell structure, types and functions are very important as the cells are the fundamental structural and functional units of any organism. Genetics gives the knowledge of Mendel's laws of inheritance which became the foundation for various hybridization experiments and production of improved breeds of animals and plants. To understand the concepts like Gene Interaction, Polygenes, Sex determination, Sex linked inheritance, Chromosomal Disorders and human genetics is essential for the betterment of quality of life. This subject improves the problem-solving

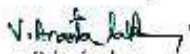
			<p>abilities among the students.</p> <p>The basic concepts of Molecular Biology and their application have brought revolutionary changes in human lives. This has Medical, Pharma, food, Industrial applications. This has application in the production of transgenic animals, reproductive manipulations, Genomics and proteomics etc.</p> <p>Evolution helps to understand the principles, theories and forces of evolution, various isolation mechanisms that lead to speciation etc. The better we understand the nature the better we progress in a sustainable manner.</p>
ZOO204311	Physiology, Cellular Metabolism and Embryology	Regional/ National/ Global	<p>Physiology helps to understand the functional aspects of body such as Digestion, Respiration, Circulation, Excretion, Muscle contraction etc. This knowledge can be applied to understand the malfunctioning of the body and remedial measures to be taken.</p> <p>Cellular Metabolism gives the understanding about various biochemical metabolic reactions that take place at cellular level.</p> <p>Embryology gives the knowledge of concepts like gametogenesis, fertilization, embryonic development etc.</p>
ZOO204312	Immunology & Animal Biotechnology	Regional/ National/ Global	<p>Immunology gives the knowledge about the types of immunity, Antigen- Antibody reactions, Immune organs and cells, Hypersensitivity, Immune disorders etc. This branch of Zoology has wide applications in the field of medicine such as production and use of monoclonal antibodies, vaccines, stem cell Technology etc.</p> <p>Research in the field of Biotechnology has the potential to change the face of the world and fate of human beings. There is no area that is not touched by Biotechnology in the daily life. Provides placements at large scale in Pharma, medical diagnostics, and in research sectors.</p>
ZOO205311-6A	Sustainable Aquaculture Management	Regional/ National/ Global	<p>This course facilitates the students to identify the locally available edible aquatic species and cultivate them scientifically in the natural and artificial aquatic environments. The curriculum has concepts like fish and shrimp hatchery management, Induced breeding, Pond preparation, Water quality, feed and disease management, Aquaculture economics, Marketing methods, production of genetically improved management of aqua farms through classroom instruction and field visits. Best management practices ensure the global food security, employment, and entrepreneurship opportunities.</p>

ZOO205311-7A	Post-Harvest Technology	Regional/ National/ Global	The curriculum of Post-Harvest Technology includes handling, preservation, processing, and preparation of fishery value added and by-products. These skills help the students to procure employment and entrepreneurial opportunities processing and export industries. The project work done by the students helps them to improve their practical knowledge of Aquaculture.
ZOO205311-6B	Live Stock Management-I (Biology of Dairy Animals)	Local, Regional, National & Global	This course facilitates the students to identify the Livestock and different types of breeds rearing in their vicinity. They can identify the features of a good breed for dairy farming and techniques used in the breeding process. Assess the global needs of dairy products, employability and become good entrepreneurs.
ZOO205312-7B	Live Stock Management -II (Dairy Production and Management)	Local, Regional, National & Global	The curriculum has different Management methods of dairy animals as systems of housing, Management of different categories of animals in the farm. By this students can get employability and entrepreneur skills. They can also enhance their knowledge and skills in industrial activities like pasteurization, milk preservation and milk products preparation through classroom instruction and field visits to the dairy industry. With these skills they milk to global needs, employability and become entrepreneurs.
DT20207SB	Dairy Technology	Regional/ National/ Global	This skill Development course gives the knowledge of different breeds of dairy cattle, construction and management of dairy farm, reproductive manipulations that result in the improved varieties of cattle, Dairy cooperatives etc. The skills learned in this course provide employment and entrepreneurship opportunities.
PF20303S	Poultry Farming	Regional/ National/ Global	This skill Development course gives the knowledge of different breeds of poultry birds, construction, and management of poultry farm. The skills learned in this course provide employment and entrepreneurship opportunities.

BSc (Subject: AQUACULTURE TECHNOLOGY)

COURSE CODE	COURSE TITLE	Local/ Regional/ National /Global	Relevance of the Course
AQ201308	Basic Principles of Aquaculture	Regional/ National /Global	Aquatic ecosystems are highly dynamic where a greater number of species are living compared to terrestrial environment. The students of aquaculture must understand and gain knowledge about natural and artificial aquatic environments. Successful aquaculture practices depend upon proper management of aquatic environments. Thus, the curriculum provides knowledge to develop expertise in taxonomy and aquatic ecology.
AQ202308	Biology of Fin Fish and Shell Fish	Regional/ National/ Global	It is very important to know certain concepts like classification of cultivable species, their feed management, reproductive biology, growth factors and developmental aspects to understand the biology of cultivable species. these concepts provide deep knowledge to maintain healthy fish in culture ponds to get expected results in terms of profit and employability.
AQ203308	Fish Nutrition and Feed Technology	Regional/ National/ Global	Successful culture practices in aquaculture depends upon the management of quality feed formulation and supply the fish in culture ponds. This course provides the deep knowledge and understanding of different aspects related to fish and nutrition and feed management. This is one of the potential areas of aquaculture which can provide plenty of employment as well as business opportunities.
AQ204315	Freshwater and Brackish Water Aquaculture	Regional/ National/ Global	Fresh water and brackish water aquaculture practices have made many agrarian societies into premier aquaculture societies which reveals the fact that both the culture practices are highly potential sectors that can provide employment opportunities mainly in rural areas. Andhra Pradesh stands first for brackish water culture. The course freshwater and brackish water culture offers very good knowledge to students to learn the culture practices which is a very important component of aquaculture.

			<p>symptoms, diagnostic methods, treatments, prevention and control the student can become good entrepreneur and produce high yield. Prevention of fish disease is accomplished through good water quality management, nutrition and sanitation. With out this foundation it is impossible to prevent outbreaks of opportunistic diseases.</p> <p>This course combines academics and economics in order to provide right kind of knowledge in fishery education and principles of economics to farmers, students, and entrepreneurs. This is a good paper that provides a platform to learn both fishery sciences and economics involved to develop aquaculture industry.</p>
AQ205315-6A	Soil and Water Quality Management	Regional/ National/ Global	<p>The concepts of properties of soil, water quality parameters in different salinity and soil water amendment can enhance the knowledge of students. The skills acquired in pond water management and pond treatments provide the employment and entrepreneurship opportunities.</p>
AQ205316-7A	Ornamental fish culture	Regional/ National/ Global	<p>The concepts of types of ornamental fishes, aquarium preparation, its management, breeding and rearing of aquarium fishes and their commercial production can give a scope of employability and entrepreneurship.</p>


 Principal
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 Signature of S. S. Srinivas
 DEPARTMENT OF ZOOLOGY
A.S. GOVT. COLLEGE FOR WOMEN
KAKINADA-5

**ASD GOVERNMENT DEGREE COLLEGE FOR
WOMEN(AUTONOMOUS):
KAKINADA**

Curriculum and its Relevance to Local/Regional/ National/ Global Needs

Name of the Department BOTANY

No of Programmes offered by the Dept: 03

Total No. of courses across all programs offered by the department: 07


BSC (BOTANY)

COURSE CODE	COURSE TITLE	Local /Regional / National /Global	Relevance of the Course
BOT 201305	Fundamentals of Microbes & Non Vascular plants	Global	<p>This course helps the students to understand about the basic and Fundamental concept of origin of life at molecular level and also the diversity of Microorganisms</p> <p>It helps the students to classify Fungi, Lichens, algae. Bryophytes based on their structure reproduction & Lifecycles</p> <p>Students would procure knowledge to analyze and ascertain the plant disease symptoms due to viruses Bacteria & Fungi and thallus organization in Algal forms and the ecological roles of Algae as oxygen producers which are used as the food base for almost all aquatic life this course enables the Students to learn about the evolutionary importance of origin of sporophyte in Bryophytes Students gets basic knowledge of Developmental significance of lower plants like Algae Fungi and Bryophytes</p>
BOT 202305	Basics of Vascular Plants &Phytogeography	National	<p>This course helps the students to classify and compare pteridophytes and Gymnosperms and understand about the structure and anatomical details of Pteridophytes Gymnosperms and gain basic knowledge about the Evolution of stele in Pteridophytes</p> <p>Students will procure knowledge of plant identification and keys to be followed in identification of various plants</p>

			<p>Basic aspects of Taxonomy Phylogenetic relationship between various plants and Systematic Taxonomy and Principles of ICBN ,</p> <p>Students will learn about different methods of preparation of Herbarium , Economic Importance of Various families and basic principles of Phytogeography Students gain knowledge of plants in terms of their origin dispersal and evolution Study of this course helps the students to learn about how plants migrate and how they evolve migrating etc. Students would be able to locate different Phytogeographical regions of world and India and can analyze their Floristic wealth</p>
<p>BOT 203305</p>	<p>Anatomy & Embryology Ecology & Biodiversity</p>	<p>National</p>	<p>This course helps students to understand about the details of Internal organization of shoot as well as Root Apical Meristem Importance of various kinds of Timbers, Embryology is the study of structure and development of embryo in plants It also helps the students to understand about the development of microsporangium Development of Kinds of Ovules and Embryogeny in Dicots and Monocots This course provides the insight into the genetic and environmental factors that effect the development of a plant Ecological Niche Biotic And Abiotic Factors and assess the Conservation strategies of Biodiversity</p>
<p>BOT 204309</p>	<p>Plant Physiology & Metabolism</p>	<p>National</p>	<p>This course helps the students to understand about various phenomena like osmosis and water potential Students can study variation and structure of plants at molecular and cellular level resulting in Ecological physiological and biochemistry related aspects of plant exploration It emphasizes on different steps involved in Plant respiration</p> <p>It enables the students to be aware of the importance of nutrients in the growth of Plants It helps the students to interpret the role of Enzymes in Plant metabolism Students will be able to understand about the mechanism of Nitrogen Fixation and Role of Growth Regulators in the growth of the plant</p>

<p>BOT 204310</p>	<p>Cell Biology Genetics & Plant Breeding</p>	<p>Global</p>	<p>This Course helps the students to cellular organisation in Plant cells It emphasizes on the importance of Chromosomal aberrations and Mendelian Inheritance. This Course gives the students an idea of Somaclonal Variation in plants Importance of Genetic Markers , It enables the students to learn about the objectives of Plant breeding and breeding techniques to be followed in improvement of Crop yield</p>
<p>BOT 205309</p>	<p>Plant propagation</p>	<p>Global</p>	<p>It is a skill based course through which students can develop knowledge about how to improve crop yield of the plants This Course helps the students to gain knowledge on making use of different plant propagation structures used in the multiplication of plants It emphasizes on the importance of exploration of specialized asexual propagules for their proloferation. This Course gives the students to gain skills on micropropagation of plants through vegetative propagation techniques and different kinds of propagation Techniques such as Layering ,Grafting & different kinds of Stem cuttings etc</p>
<p>BOT 205310</p>	<p>Seed Technology</p>	<p>National</p>	<p>This course enables the students to learn about the various causes of seed Dormancy and methods to break seed Dormancy , It helps the students to understand critical concepts of Seed processing & seed Storage Procedures. It enables the students to acquire skills related to various seed testing methods. It is a skill based course and helps the students to gain knowledge in identifying seed borne pathogens and prescribe methods to control them, It helps the students to understand the legislations on seed production and procedure of seed certification This course makes the students to gain knowledge Estimation of seed moisture, seed germination percentage seed viability and vigour</p>

This course helps the students to procure knowledge about various methods in producing healthy seeds


Signature Lecturer
HOD Department of Botany
Incharge in Botany
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Signature of Principal
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A.S.D. GOVERNMENT DEGREE COLLEGE FOR WOMEN
(AUTONOMOUS), KAKINADA

Curriculum and its Relevance to Local/Regional/ National/ Global
Needs:2022-2023

Name of the Department: CHEMISTRY

No of Programmes offered by the Dept: 01

Total No. of courses across all programs offered by the department: 07

COURSE CODE	COURSE TITLE	LEGAL/ REGIONAL/ GLOBAL	RELEVANCE OF THE COURSE
CHE201303 - (2)	INORGANIC AND PHYSICAL CHEMISTRY	NATIONAL AND GLOBAL	<p>Chemistry of p block elements, d and f block elements gives thorough knowledge on reparation, properties and structure of their compounds which enables to understand the changes that occur when these compounds subjected to chemical reactions at atomic and molecular levels . This knowledge in Inorganic chemistry is fundamental to develop new technologies including catalysis, new advanced materials and energy storage devices like lithium batteries etc.It leads better quality of life and sustainable world.</p> <p>In f block elements ion exchange resins addresses, global challenge environment pollution by providing access to clean water and radioactive elements answers another global society issue human health by playing crucial role in diagnosis and cancer therapy.</p> <p>Understanding solid state, liquid state and solutions chemistry is essential to develop new materials, technologies and metal ion batteries etc</p>

CHE202303 - (2)	ORGANIC AND GENERAL CHEMISTRY	NATIONAL AND GLOBAL	<p>Develop knowledge on organic reactions and their mechanisms. It helpful in understanding the design and synthesis of organic compounds.</p> <p>organic chemistry play major role in the synthesis and development of new Chiral drugs/drugs which inturn impact our quality of lives by addressing global society issue health. It also useful in the diagnosis of disease (eg MRI). Synthetic organic chemistry best serve the future needs of the pharmaceutical industry.</p> <p>Surface chemistry specially adsorption, absorption and colloids gives knowledge about physical/ chemical interactions taking at the interface of two phases. It has a wide range of applications in medicinal chemistry , industry (Catalysis), paint industry etc.</p> <p>Principles of adsorption is used to explain results of catalysis in research and industry.Chromatography adsorption techniques are used to purify organic</p>
CHE203303 (1)	ORGANIC CHEMISTRY & SPECTROSCOPY	NATIONAL AND GLOBAL	<p>Organic chemistry is a sub discipline within the chemistry involving the scientific study of the structure,properties,classification, and reactions of organic compounds.The study of named reactions helps us to develop a deeper understanding of the underlying concepts and mechanisms involved.</p> <p>Spectroscopy is the technique used to get the information about the structure and other</p>

			properties of the sample using a specialised piece of equipment called spectrophotometer
CHE204305 (1)	INORGANIC, ORGANIC & PHYSICAL CHEMISTRY	NATIONAL AND GLOBAL	<p>The study of Organometallic compounds helps to understand its importance as homogeneous catalysts in commercial chemical reactions. The study of carbohydrates and aminoacids helps us to know the biological functions involved in the human body. Photochemistry helps us to understand the study of chemical reactions that occur because of the absorption of light. Thermodynamics gives the knowledge of relation between heat, work, temperature and energy.</p> <p>The study of Organometallic compounds helps to understand its importance as homogeneous catalysts in commercial chemical reactions. The study of carbohydrates and aminoacids helps us to know the biological functions involved in the human body. Photochemistry helps us to understand the study of chemical reactions that occur because of the absorption of light. Thermodynamics gives the knowledge of relation between heat, work, temperature and energy.</p>

CHE204306 (1)	INORGANIC & PHYSICAL CHEMISTRY	NATIONAL AND GLOBAL	Chemistry of coordination compounds helps us to know the interaction of organic and inorganic ligands involving metal centres which makes us to understand the different theories involved in it. Bioinorganic chemistry gives the vast information about the metal ions present in the biological systems. It also develops knowledge in medicinal and pharmaceutical fields. Electrochemistry helps us to understand the interconversion of chemical energy and electrical energy. Chemical kinetics makes us to understand the rates of chemical reactions
CHE205305 -6D	ENVIRONMENTAL CHEMISTRY	NATIONAL AND GLOBAL	It develops the knowledge on environment related issues such as different kinds of pollution that occur in nature and how it affects the human life and also the energy crisis and different aspects of sustainability. It also helps to acquire knowledge on biodiversity at national, global and regional level.

CHE205306 -7D	GREEN CHEMISTRY & NANO TECHNOLOGY	NATIONAL AND GLOBAL	It develops the knowledge on synthesis of compounds using green solvent which are environment friendly and less hazardous to human life and also the advantages of using green synthesis. Nanotechnology helps us to understand the earlier detection of diseases and also the applications which include medicine, automobiles, textiles and fabrics, space science, electronics and devices etc.,
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Department of Economics

Curriculum and Its Relevance to Local/Regional/ National/ Global Needs

2022-2023

No of Programs offered by the department: 2

BA (History, Economics and Political Science)

BA (History, Economics and Tourism and Travel Management)

Total No. Of courses across all Programs offered by the Department: 07

Course	Course Code	Local/ Regional/ National/ Global Needs	Relevance
ECO201102	Microeconomic- Analysis	Regional/ National/ Global	The concepts in microeconomics are the heart of economics which explain determinants demand and supply of goods and services, market conditions and factor price theories. This course assists in understanding local and regional market structures, competition, and consumer preferences. Microeconomics helps in analyzing consumer behavior, market competition, pricing strategies, and trade dynamics, contributing to effective global market entry and competitiveness. Price theory is relevant to understand any market be at global level, national, regional and local.

ECO202102	Macroeconomic Analysis	Regional/ National/ Global	<p>By the end of the course students should be able to explain various concepts, definitions, laws and principles of macroeconomic theory with reference to income, employment, money, banking and finance. This helps understand the functioning of economy at macro level and thus the policy implications. Understanding macroeconomic principles is essential for local governments and organizations when planning economic development initiatives. At the national level, policymakers rely on macroeconomic analysis to formulate and evaluate economic policies. This includes fiscal and monetary policies that aim to regulate inflation, unemployment, economic growth, and stability.</p>
ECO203102	Development Economics	Regional/ National/ Global	<p>This course helps in understanding various concepts and definitions and indicators relating to economic growth and development. This further helps students to know various strategies for development and role of institutions in development. These concepts are important to understand factors that enable growth at global, national, regional, and local levels.</p>
ECO404103	Economic Development- India And Andhra Pradesh	National	<p>Concepts in economic development of India help students to know leading issues of Indian economic development with reference to potential for growth, obstacles and policy responses.</p>

		Regional	<p>Concepts in economic development of Andhra Pradesh help students to critically examine using data and figures</p> <p>(analysis and evaluation) leading issues of current importance relating to India and AP economy, major policies and programs</p>
		Local	<p>With the help of concepts and theories understood at national and regional level students should be able to apply and understand the local economic situations.</p>
ECO404104	Statistical Methods For Economics	Local/ Regional/ National/ Global Needs	<p>This course in statistical methods for economics enriches the student's ability to analyze, interpret and present economic data. Analysis in Social Sciences is data driven. Statistical methods provide a foundation for evidence-based decision-making and policy formulation across all levels of economics. They facilitate understanding economic trends, forecasting future scenarios, identifying areas for development, and evaluating the impact of policies, ultimately contributing to the economic well-being of individuals, businesses, regions, nations, and the global community.</p>

ECO205103-6C	Insurance services	Local/ Regional/ National/ Global Needs	Insurance services course is essential for developing a workforce that understands the complexities of insurance and risk management. This course provides knowledge about regulatory frameworks and policy design, ensuring a well-functioning insurance sector for the country. Courses on insurance and risk management help local businesses identify potential risks, choose appropriate insurance coverage, and protect their assets. Understanding insurance principles and practices is crucial for a well-functioning and sustainable global economy.
ECO205104-7c	Banking and Financial Services	Local/ Regional/ National/ Global Needs	Banking and financial services courses play a critical role in producing a skilled workforce that is knowledgeable about the intricacies of banking, finance, investment, and economic management. This course empowers individuals to make informed financial decisions and utilize banking services effectively. The course provides knowledge on national financial laws and regulations, this knowledge is essential for fostering economic stability, supporting businesses, encouraging investment, and ensuring the efficient functioning of financial systems at local, regional, national, and global scales.



Signature of Head of the department.
Department of Economics

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ASD GOVERNMENT DEGREE COLLEGE (W)(A), KAKINADA
Curriculum & Its Relevance
to Local/Regional/National/Global Needs (2022-23)

Department: English
NO. of Programmes offered: 03

ENG20101	A Course in Communication and Soft Skills (I Semester)	Global	The course enables the learners to recognize the importance of English in day-to-day situations, academics and professions at local and global levels and further use the Language fluently and confidently. In addition, the course assists the students in deploying Soft Skills in their personal and professional lives to improve living standards and meet social needs.
ENG20201	A Course in Reading and writing Skills (II Semester)	Global	The course enables the learners to understand and analyze various texts ranging from fictitious inputs to authentic materials connected to different spheres of life. The course also helps the learners to build a repository of active vocabulary and relate them to meet the purposes. In addition to its use in the above Evo areas, the course assists the learners in preparing their write-ups to meet the needs of their academics, social demands and professions.
ENG20301	A Course in Conversational Skills (III Semester)	Global	The course enables the learners to use English in social interactions, in Speeches or responses in academic, social, and professional presentations, interviews, and discussions accurately and fluently.

P. Shanthi
Sec in - charge of
the Department.

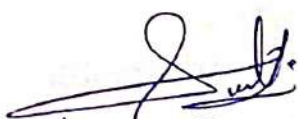
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Curriculum & Its Relevance to
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Department: Hindi 2022 - 23

No. of Programmes offered: 03

HIN20103	Prose, Short Stories, Grammar and Letter Writing.	National	The course enables the learners to develop proficiency in reading, writing, speaking, and understanding the language. The Course enhances student's overall language skills and It also promotes cross-cultural understanding, empathy, and appreciation for linguistic diversity. Understanding Hindi idioms expressions, and cultural nuances can strengthen student bonds with Hindi speaking individuals.
HIN20203	Prose, Short Stories, Grammar and Letter Writing.	National	Hindi prose and short stories help student improve their language skills. This knowledge enhances their reading comprehension, writing proficiency, and overall command of the Hindi language. prose and short stories often reflect the cultural, social, and historical aspects of India. By studying those texts, students gain insights into the values, beliefs, and experiences of people from different regions and time periods.
HIN20303	Old & Modern Poetry, History of Hindi Literature	National	The course Hindi literature reflects the diverse cultural, social, and historical aspects of India. By studying Hindi literature, students gain a deep understanding of the values, beliefs, traditions, and experiences of different communities and time periods. It promotes cultural empathy, cross-cultural understanding, and appreciation for the rich literary heritage of India. This awareness helps them understand the evolution of Indian literature and its relationship with broader historical and social developments.


 Signature of Dep. Incharge


 Principal

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

DEPARTMENT OF HISTORY & Tourism

Curriculum and its Relevance to Local/Regional/ National/ Global
Developmental Needs 2022-2023

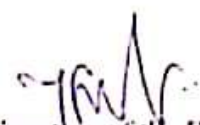
No of Programmes offered by the Department: 02 Total No. of courses across all
programs offered by the Department: 11(History) + 02(Tourism) = 13

B.A (Subject: HISTORY)

COURSE CODE	COURSE TITLE	Local/ Regional / National /Global	RELEVANCE OF THE COURSE
HIS201101(2)	Ancient Indian History & Culture (From Indus Valley Civil. to 13 Century A.D	Local/ Regional / National /	Identify and define various kinds of sources and understand how history books are shaped. Identify and define various kinds of sources and understand how history books are shaped. Increase the awareness and appreciation of Transition from Territorial States to Emergence of Empires. Increase the awareness and appreciation of Transition from Territorial States to Emergence of Empires. 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
HIS202101(2)	Medieval Indian History & Culture (1206 A.D To 1764 A.D	Local/ Regional / National	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
HIS203101(1)	Modern Indian History & Culture (1764-1947 A. D)	Local/ Regional / National	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 19 th 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

HIS204101(1)	History & Culture of Andhra (from 1512 to 1956 AD)	Local/ Regional / National	<p>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</p> <p>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</p>
HIS204102(1)	History Of Modern World (From 15th Cent. AD to 1945 AD)	National /Global	<p>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 Romanticis. 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</p>
HIS205101-6B	Tourism and Hospitality Services	Local/ Regional / National	<p>Understand hospitality as a career. Inculcate inter personal skills. Develop the ability for multi-tasking and crisis management. Understands the spirit of teamwork. Acknowledge the importance of guest service and satisfaction.</p>

HIS205102-7B	Tourism Guidance and Operating Skills	Local/ Regional / National	Acquire tour guiding, operating and soft skills. Understand different situation under which one has to work. Cultivate cultural awareness and flexibility. Understand and apply team spirit. Plan and organize tour operations efficiently
HVPE 20101 (2)	Human Values & Professional Ethics	Local/ Regional / National / Global	Understand the significance of value <i>inputs</i> in a classroom and start applying them in their life and profession. Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc. Understand the value of harmonious relationship based on trust and respect in their life and profession. Understand the role of a human being in ensuring harmony in society and nature. Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work
TG20101(2)	Tourism Guidance	Local/ Regional / National /Global	Understand the basic tourism aspects. Comprehend the requirements, role and responsibilities of profession of a Tourist Guide. Apply the knowledge acquired in managing different groups and guiding in a tour. Explain basic values related to tourism and heritage
SWM20205 SB(2)	Social Work Methods	Local/ Regional / National	Understand the basic concepts relating to social work practice, values, principles of social work and social problems in India. List out different approaches of providing help to the people in need. Acquaint the process of primary methods of social work. Get to know the skills of working with individuals, groups and communities.



 Signature of the Dept. in-charge
 (Y. SITA MAHA LAKSHMI)
 Dec in-charge
 Dept. of History & Tourism

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DEPARTMENT OF TOURISM

TT205109-6C	Tourism Destination Marketing	Local/ Regional / National /Global	Understand the typology of Destinations in tourism Analyze the market Environment of Tourism Destinations. Learn about the planning and Strategies of Destination Marketing. Understand the Different Components of the Destination Marketing Mix .Apply the Destination Promotional strategies in the Tourism Industry
TT205110-7C	Itinerary preparation and Tour Packaging	Local/ Regional / National /Global	Understand Concepts of Travel itineraries and can able to prepare itinerary planning Able to prepare tour formulation and Designing various types of tour packages. Estimate the cost of the package tour and analyze the various Companies pricing Strategies .Evaluate the tourists feedback and change the services accordingly .Understand the Different online payment gateways for Present business


 Signature of the Dept. in-charge
 (Y-SITA MAHA LAKSHMI)
 Lec in-charge,
 Dept of Tourism & History.

V. 

PRINCIPAL
A.S.D. GOVT. DEGREE COLLEGE (M)
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KAKINADA

DEPARTMENT OF HOME SCIENCE

Course Code	Course title	Local /regional /national /global	Relevance of the course
HSC 101	Basic Nutrition (FN-1)	Global	Basic Nutrition course helps students to create concepts of food and nutrition its relation to health. Further, it also enriches knowledge about macro and micro nutrients and their functions, sources and deficiencies. Students can able to Planning recipes by selecting appropriate foods based on the macro and micro nutrient composition which is very much essential in menu planning. This has global relevance where students can seek their career in the area of health care sector, Nutritionist, instructors etc.
HSC 102	General Psychology	Global	This course enables the students study the personality of people and also develops the skill of administration of psychological testing scales which forms the basis for pursuing the careers in human development and Guidance and counselling which are very much relevant globally
HSC 103	Fundamentals of Textiles(TEX-1)	Global	The course creates an understanding about the yarns, fibers and fabric and the total process of production to the finishing stage of textiles which is useful in textile industry
HSC 201	Introduction to Food Science (FN-2)	Local	This course impart knowledge on plant and animal foods, their selection, nutritive values, composition, storage and processing. Students can learn about various food groups which enhances their creativity to make product development. This also helps students to upgrade knowledge on preparation of balanced diet without losing nutrients.

HSC 202	Housing for Better Living (HM-1)	Local	This courses educates the students about selection of building materials, principles of housing and selection of household equipment which helps the students in enhancing the quality of living conditions of their homes as well as the others in the community
HSC 203	Fundamentals of Home Science Extension (EXT-1)		This course helps in building the skills of a student in extending the skills and knowledge that they have learnt to the community to enhance their living conditions
HSC 301	Family & Community Nutrition (FN-3)	Regional	Community nutrition is the science related to practical application of the nutritional knowledge in the field to identify and solve nutritional problems of population groups in the community. Further, students can apply Nutritional assessment techniques in different regions to understand the specific nutritional problems. Apart from this, students able to understand Planning of nutritious diets according to RDA for different age group's i.e. Infancy to old age and physiological conditions - Pregnancy and lactation. This course enhances students' Knowledge, employability and entrepreneurial skills.
HSC 302	Principles of Garment construction (TEX-2)	Local	It is a skill based course which enables the students to acquire skills in operation of a sewing machine and principles of garment construction
HSC 303	Child Development (HD-1)	Global	Child development course enables the students understand the developmental patterns of the humans in various stages of life span and also imparts knowledge on identification of developmental delays and various developmental disorders. This has global relevance where the

			students can pursue their careers in the area of special education , human development and Guidance and counselling
HSC 401	Therapeutic Nutrition (FN-4)	Global	This course is very much essential to the students for self- awareness as well as to become dietician in the hospital at local, national and global level. Students can understand about modification of normal diets to therapeutic diets for different diseases like Obesity, Cardiovascular, Renal, Diabetes mellitus etc. They also acquire knowledge on Calculation of Nutrient Requirements for complications in different disease conditions. After completing this course, students can get employment in hospitals, health care centers, Diet counselling centers, slimming centers etc.
HSC 402	Fabric Construction & Apparel Care (TEX-3)	Regional	This is a skill based course where the students learn about the various finishes and care of Fabrics and has entrepreneurial value
HSC 403	Human Development and Family Dynamics(HD-2)	National	This course enables the students understand the development patterns during adolescence and also the dynamics of marriage and family. This has local relevance as the student can extend the knowledge and coping strategies to the community through counselling for strengthening the families and thus the society
HSC 404	Nutritional Bio-Chemistry(FN-5)	Local	Nutritional Biochemistry is an advanced nutrition course emphasizing the metabolism and Bio chemistry of the energy containing macronutrients: carbohydrates, lipids, proteins and other related compounds. Their chemical

			structures, digestion, absorption, distribution, and cellular metabolism are covered. Central themes will include the utilization of macronutrients in energy metabolism and the integration and regulation of metabolic pathways. The overall focus is on the application of biochemistry to nutrition to provide an appreciation for the chemical basis of applied nutrition science
HSC 406	Home Science Extension And Community Development (EXT-2)	Regional	Enables the students to learn about the community and their needs and the ways of extending their knowledge for the betterment of the community
HSC 16c	Food Quality Control and Assurance	National	This course covers the basic concepts of Food quality control and assurance with respect to its Importance as well as the related terms and definitions. The course also discusses food quality control development, food quality parameters and how they are evaluated. The course also deals with the structure, management and functions of quality control systems on industrial and regulatory scales. After successful completion of this course the student should be able to: 1. Understand the principles of management systems directed towards the control of food quality. 2. Recognize food laws and regulations governing the quality of foods. 3. Develop procedures and approaches to identify food safety hazards in food processing. 4. Identify the wide variety of parameters affecting food quality. 5. Develop quality control strategies.
HSC 17c	Food Safety, Sanitation and Hygiene	Global	Enables the student to learn about the sanitation and hygiene while handling different foods from production to consumption stage

HSC 18c	Guidance and Counselling	Global	Provides the students with knowledge on various guidance and counselling techniques which are helpful in personal and professional level
HSC 19c	Education and Counselling for Parents and Community	Regional	Students learn the skill of educating the parents and also surrounding community of the student population about the knowledge and skills acquired as a part of their formal education
HSC 20a	Interior Design and Decoration	Global	Students gain knowledge and understanding about the art and design and how to incorporate in their interiors which is required as a part of any profession art and design

H. Suvachala

20-9-23

Lecturer in Hum Science
A.S.D. Govt. DEGREE COLLEGE (W)
KAKINADA

V. Ananta Lakshmi

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

**ASD GOVERNMENT DEGREE COLLEGE FORWOMEN
(AUTONOMOUS):
KAKINADA**

Curriculum and its Relevance to Local/Regional/ National/ Global Needs

Name of the Department - Horticulture

No of Programmes offered by the Dept: 01

Total No. of courses across all programs offered by the Department: 07


BSC (Horticulture)

COURSE CODE	COURSE TITLE	Local /Regional / National /Global	Relevance of the Course
HTC201309	Fundamentals of Horticulture & Soil Sciences	National	<p>This course helps the students to understand about the scope & potential of Importance of various Horticulture products in India and Andhrapradesh</p> <p>Students would be able to study about Orchards Training and pruning methods</p> <p>Soil Profile soil Organic matter useful for the growth of the plant It enhances the students knowledge to classify the Horticultural plants based on soil & climate It enhances the ability of the students to grow produce, marketing utilizing high value of intensely grown food and ornamental plants in a sustainable manner The study of soil sciences enables the students to learn about physical chemical and biological properties of the soil and soil properties in relation to the management for crop production.</p> <p>Students will procure knowledge of Integrated nutrient Management & skills of soil testing</p>
HT202309	Plant propagation and Nursery management	National	<p>Plant propagation is the process of increasing the number of plants of a particular species or cultivar This course helps the students to understand about different kinds of propagation methods to be followed while propagating different kinds of plants</p>

HT203309	Basics of Vegetable science (Olericulture)	National	<p>Students will gain knowledge about the regulation to establish a plant Nursery and quality of parameters to be maintained. This course enables the students to gain knowledge about how to grow plants in an open environment maintain a good quality of plants and protect the plants from pests and diseases.</p>
HT204317	Basics of Fruit Science (Pomology)	National	<p>This course enables the students to learn about the production, storage, processing and marketing of vegetables. Students will gain knowledge about cultivation aspects of different vegetable crops. It encompasses the crop establishment including cultivar selection, seed bed preparation and establishment of vegetable crops by seed and transplants. Students will learn the importance of cultivation of various vegetable plants like Brinjal, Tomato, capsicum, spinach, and Coriander. This course enables the students to identify the pests & diseases of vegetable crops & their management. Students will gain knowledge about the cultivation of Tuber crops like cultivation of Carrot, Beetroot, Colocasia, Cole crops, cabbage and cauliflower cultivation practices. Cultivation practices of Leguminous Vegetables: Cluster bean, cow pea, etc.</p> <p>This course enables the students to realize the value of fruits in terms of Human nutrition & economy of Nation. This course enables the students to gain knowledge on fruit tree improvement to increase production yield and quality. Importance of fruits growing in India and Andhrapradesh. Export and Import. Production value of fruits. Students would be able to gain knowledge how to get maximum quality production per unit area with low cost. This course helps the students to develop knowledge on various Entrepreneurship skills in related to fruit science.</p>

HT204318	Pests & Diseases of Horticulture plants and their management	Global	<p>This course enables the students to learn about pest management which is an important component of crop production and prevent crop loss.</p> <p>Pests can have detrimental effect on Horticultural operations by effecting the quantity quality and ultimately the marketability of the crops grown Students will be able to study about the Symptoms and Plant diseases caused by Viruses Fungi and Bacteria</p> <p>Students will procure knowledge in disease management practices in various vegetable Crops , ornamental crops,fruit crops.</p> <p>This course enables the students to gain knowledge about classification of pesticides based on use chemical nature, formulation toxicity & action</p>
HT 205317	Ornamental Horticulture	Global	<p>It is a skill Enhancement course which helps the students to acquire critical knowledge in identifying various components required for ornamental Garden Development, It helps the students to gain skills related to establishment & Maintenance of an Ornamental garden , It helps the students to learn about making & developing lawn and Bonsai.It makes the students to know about Landscape design using CAD. It helps the students to acquire skills of designing & developing ornamental gardens in public places</p>
HT205318	Commercial Floriculture	Global	<p>It is a skill enhancement Course and helps the students to understand the importance of flowers in life. This course enables the students to acquire skills related to production techniques in floriculture, It helps the students to gain knowledge about various breeding techniques of some flowering plants and students will get an idea about post harvest technology in handling of flowers in Floriculture</p> <p>This course enables the students to gain knowledge about performing skills of floral</p>

arrangements or making floral products
This course helps the students to procure
knowledge about use of chemicals & other
compounds for prolonging the vase life of
cut flowers


Signature of
Lecturer
HOD
Department of Botany
Incharge in Botany
A.S.D. Govt. Degree College for Women
KAKINADA


Signature of Principal
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A.S.D.Govt.DEGREE COLLEGE FOR WOMEN (A) , KAKINADA

Curriculum and its Relevance to Local / Regional /National / Global Needs

2022-2023

Name of the Department : Mathematics

No.of Programmes offered by the Department :3

Total No.of courses across all programs offered by the department : 7

B.Sc (M.P.C , M.P.Cs , M.S.Cs)

COURSE CODE	COURSE TITLE	Local / Regional /National / Global	Relevance of the Course
MAT201301	DIFFERENTIAL EQUATIONS	LOCAL	Differential equations are fundamental in scientific research and education. Local universities and research institutions can use them to advance knowledge, train the workforce, and address specific research challenges relevant to the region. Differential equations are applied to model economic and financial systems, which can help address regional economic challenges. These equations can be used to analyse market trends, forecast economic growth, and design monetary policies tailored to local conditions.
MAT 202301	SOLID GEOMETRY	GLOBAL	Solid geometry, a branch of mathematics that deals with three-dimensional shapes and their properties, is relevant to global needs in various ways. Architects and urban planners use solid geometry principles to design buildings, infrastructure, and city layouts. Efficient use of space, structural stability, and aesthetic considerations are all critical aspects of creating sustainable and functional urban environments. Solid geometry is the foundation for creating 3D computer graphics and animations, which are used in various industries, including entertainment, education, and virtual simulations.

<p>MAT 203301</p>	<p>ABSTRACT ALGEBRA</p>	<p>GLOBAL</p>	<p>Abstract algebra, as a branch of mathematics, has significant relevance to global needs in various ways: Abstract algebra concepts are fundamental in computer science and information technology. Algebraic structures like groups, rings, and fields are used in data structures, coding theory, and algorithm design. Abstract algebra provides a foundation for advanced mathematics education. It helps students develop abstract thinking and problem-solving skills, which are essential for various STEM (Science, Technology, Engineering, and Mathematics) disciplines. Mathematical modelling and statistical analysis, which often involve algebraic concepts, are used in social sciences and policy analysis to address global issues such as poverty, inequality, and public health.</p>
<p>MAT 204301</p>	<p>REAL ANALYSIS</p>	<p>GLOBAL</p>	<p>Real analysis is a fundamental branch of mathematics that plays a crucial role in addressing various global needs, both in theoretical and practical contexts. In the era of big data, real analysis techniques are essential for processing, analysing, and extracting meaningful information from vast datasets. Real analysis underpins the theory of probability and statistics, which is essential for drawing meaningful conclusions from data. This has applications in fields ranging from public health to social sciences.</p>
<p>MAT 204302</p>	<p>LINEAR ALGEBRA</p>	<p>LOCAL</p>	<p>Linear algebra is a branch of mathematics that deals with vector spaces and linear mappings between these spaces. Local universities, research institutions, and industries related to the physical sciences (e.g., chemistry, physics) often require linear algebra for tasks such as solving differential equations, analysing experimental data, and simulating physical processes. Architects and designers can use linear algebra in tasks related to structural analysis, geometric modelling, and computer-aided design (CAD).</p>

MAT 205301	NUMERICAL ANALYSIS	REGIONAL	Numerical analysis is a field of mathematics and computer science that focuses on developing algorithms and computational methods to solve mathematical problems. In regions heavily reliant on agriculture, numerical analysis can aid in crop modelling, weather prediction, and optimizing irrigation systems. This contributes to improved food security and resource management. Regions may require custom software solutions that cater to their specific needs. Numerical analysis expertise can help in developing software tools and applications tailored to regional requirements.
MAT 205302	SPECIAL FUNCTIONS	REGIONAL	Special functions in mathematics, such as Bessel functions, Legendre functions, and hypergeometric functions, have a wide range of applications across various fields, including physics, engineering, and science. special functions can play a role in modelling and solving problems related to energy production and distribution. Regions with a focus on renewable energy or traditional energy sources could benefit from these techniques. Emerging start-ups and innovative companies in various fields may find special functions relevant for solving unique challenges or developing novel technologies, contributing to regional innovation.

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V. R. S.

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KAKINADA**

**A.S.D. GOVERNMENT DEGREE COLLEGE FOR WOMEN (AUTONOMOUS),
KAKINADA**

Curriculum and its Relevance to Local/Regional/ National/ Global Needs:2022-2023

Name of the Department: Microbiology

No of Programmes offered by the Dept: 01

Total No. of courses across all programs offered by the department: 07

COURSE CODE	COURSE TITLE	Local/Regional/National/ Global	Relevance of the Course
MB201307 (2)	Introduction to Microbiology and microbial diversity	National/Global	The fundamental significance of Microbiology is the study of Microorganisms and their role in living world. Help to know the history, groups of microbes and basic core techniques of microbiology
MB202307 (2)	Microbial Physiology & Biochemistry	National/Global	Gives thorough knowledge on biomolecules with basics of Enzymology and nutrition and metabolism in microbes
MB203307 (1)	Molecular Biology and Microbial Genetics	National/Global	Develop knowledge on microbial genetics and molecular biology and instrumentation. Concepts of genetics helpful in understanding the hereditary disease diagnosis which in turn helps in prevention of such disorders.
MB204313 (1)	Immunology And Medical Microbiology	National/Global	Immunology helps us understand how and why people get sicknesses. Understand the concept of immune mechanism and develop knowledge on disease transmission, control and collection and handling of laboratory specimens
MB204314 (1)	Microbial Ecology & Industrial Microbiology	Regional/National/Global	Microbial ecology explores the diversity, distribution, and abundance of microorganisms, their specific interactions, and the effect that they have on ecosystems. Helps to know about biotechnological applications of

			microbes in Industrial production of various products of human interests in the field of food, beverage, pharmaceutical products etc.
MB205313-6A	V SEM Food, Agriculture and Environmental Microbiology	Regional/National/Global	<p>Impart knowledge on soil microorganisms and role in nutrient cycles and inculcate knowledge on plant diseases and their control.</p> <p>Role of microbes in sustainable environment and Agriculture developments.</p>
MB205314-7A	V SEM Management of Human Microbial Diseases and Diagnosis	Regional/National/Global	<p>This course explains the bacterial and immunological diseases of humans that play an important role in understanding medicine and healthcare.</p> <p>Gives thorough skill in disease diagnosis & public health sector can be improved.</p> <p>Disease outbreaks can be more precisely handled with knowledge of serology, clinical laboratory techniques, diagnostic microbiology and Medical microbiology techniques.</p>


Signature of HOD


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Curriculum and its relevance to Local/Regional/National/Global needs
2022-23

Name of the department	PHYSICS
No. of programmes offered by the department	07
Total no. of courses across all programmes offered by the department	9
Names of the programmes	B. Sc. (MPC, MPCs, MSCs)

Course code	Course title	Local/Regional/ National/Global need	Relevance of the course
PHY201302	Mechanics waves and Oscillations	Global	Understanding the waves characteristics are fundamental in electrical as well as mechanical appliances. Concepts such as Rocket motion and different stages of rocket help the students in understanding the various stages and their detachments. The phenomenon of resonance which helps in the communication is generally taught/learned by the students in this course. What needs to be done to change the resonance frequency has to be understood by the student in fabricating the new devices.
PHY202302	Wave Optics	Global	The the topics help the student in understanding many of the natural phenomenon and use them for human welfare. Interference helps to find out thickness of contact lenses and very thin films it has many applications globally in the scientific community. Polarization concept is helpful in developing 3D movies.
PHY203302	Heat & thermodynamics	Global	thermodynamics deals with the energy conservation, conversion of energy from one form to another form, the various intricacies involved in it. Study of heat engines especially Carnot cycle is the basic for Automobile industry. Study of low temperature physics paves the way for the invention of cold storages, refrigeration etc. This is highly relevant to the changing environmental conditions now a days.

PHY204303	Electricity, Magnetism and Electronics	Global	This course prepares students in understanding and explaining the physical phenomena related to electricity, magnetism and electronics and their interactions. Through this curriculum, students able to understand the working of diodes, transistors etc which are the basics of present day computer science and engineering. The study of electromagnetic induction has become basis for the invention of transformers and power transmissions.
PHY 204304	Modern Physics	Global	Modern physics in general explains the breakthroughs during 19 th century to the present. This course covers lasers, nuclear physics, nuclear energy which is an alternative source of energy, super conductivity proven that no loss in power transmission and nano materials. Quantum mechanics nano technology helps in understanding and fabricating many in new materials and drug delivery systems.
PHY205203 - 6B	Low Temperature Physics & Refrigeration	Global	This course deals with obtaining the low temperatures which paved the way for the invention of refrigeration, air conditioners, water coolers, cold storages. Further, low temperature physics is applied in super conducting magnets in MRI scanning, Cryo-surgery In medical field, cryogenic rocket engines in rocket science.
PHY205304 - 7B	Solar Energy and Applications	Global	This course in the curriculum deals with the utilization of solar energy which is a renewable and non-polluting energy source. Students study the solar energy applications such as solar cookers, solar dryers, solar desalinators and Photovoltaic cells. Solar photovoltaics are the need of the hour understanding the working helps in improving its efficiency thereby meeting the global energy needs.

Devat Bho

LECTURER IN CHARGE
Department of Physics
A.S. Govt. Degree College for W.
KAKINADA.

V. N. S.

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

Curriculum and its Relevance to Local/Regional/National/Global Needs

Name of the Department: Political Science

No of the programmes offered by the Dep: 01

Total No.of courses across all programs offered by the department: 03

B.A (Political science) (2022 – 2023)

A

Course code	Course Title	Local/Regional/National/Global	Local/Regional/National/Global
POL202103	Introduction to Political Science	Global	Definition, Nature, Scope and Importance of Political Science. Divine Origin, Force, Evolutionary and Social Contract. Law, Liberty, Equality. Theories of Rights, Political Ideologies – Liberalism, Individualism, Anarchism, Socialism, Marxism etc....
POL201103	Basic Organs of the Government	Global & National	Constitution Meaning, Definition, Origin and Evolution of Constitution.Classification.Organs of the Government – Legislature, Executive and Judiciary powers and functions.
POL203103	Indian Government and Politics	Global & National	Social and Ideological base of the Indian Constitution. Individual and State – Fundamental Rights, Directive Principles Fundamental Duties. Union Executive – President of India, Prime minister, Council Of ministers.
POL204105	Indian Political Process	National, Global & Regional	Federal Processes – Centre, state relations In Legislative, Administrative and Financial. Electoral Processes – The Election Commission of India, powers and functions. Electoral Reforms, Voting Behaviour.
POL204106	Western Political Thought	Global	Ancient Greek Political Thought – Plato, Aristotle. Contractual Political Thought – Thomas Hobbes, John Locke, JJ Rousseau. Medieval and Modern Political Thought – St. Augustine, Niccole Machiavelli. Utilitarian Political Thought – Jeremy Bentham, J.S Mill. Marxist Political Thought – Karl Marx, Antonio Gramsci.

POL205105-6B	E - GOVERNANCE	Global	Brief introduction to Governance – E – Governance , NEGP, E – Panchayat, E- Bhoomi, E- Seva, CARD
POL205106-7B	Local Administration	Regional	Meaning and Nature of local administration, SWOC, SGSY, IAY AND PURA. 73 rd and 74 th amendments, Challenges for local administration. Preparation of Reports, Types of Reports.

P. B. S. J.


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ASD GOVERNMENT DEGREE COLLEGE (W)(A), KAKINADA
Curriculum & Its Relevance to
Local/Regional/National/Global Needs

Department: Sanskrit

No. of Programmes offered: 03

SAN20102	Old and Modern Poetry, Prose and Grammar	National	The Course enables learners to deepen understanding of Indian traditions, philosophies, and religious texts such as the Vedas, Upanishads, and Mahabharata. This knowledge can enhance students overall cultural awareness and appreciation. Student can improve overall language skills, including grammar, vocabulary, and syntax. This enhanced linguistic ability can be beneficial for students studying linguistics, literature, or even modern Indian languages.
SAN20202	Old and Modern Poetry, Prose and Grammar	National	The Course have profound personal benefits. It can enhance student's creativity, introspection, and ability to appreciate beauty in language and literature. It also encourages disciplined study, patience, and attention to detail. These qualities can contribute to personal growth and provide a well-rounded education. grammar provides a deep understanding of linguistic principles and structures. It explores the intricacies of sound patterns, word formation, and grammatical rules.
SAN20302	Drama, Upanishad, Alankara and History of Literature	National	Studying the drama and Upanishads, students can gain a deeper understanding of Indian culture, philosophy, and spirituality. The drama and Upanishads can foster ethical reflection and encourage students to contemplate and discuss fundamental questions of right and wrong, justice, and the purpose of life. They can analyse various genres of Sanskrit literature, such as epics, poetry, drama, and philosophical texts, and gain insights into the literary traditions that have shaped Indian literature.

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

Curriculum and its Relevance to Local / Regional /National / Global Needs

2022-2023

Name of the Department : Statistics

No.of Programmes offered by the Department :1

Total No.of courses across all programs offered by the department : 2

B.Sc (M.S.Cs)

COURSE CODE	COURSE TITLE	Local / Regional /National / Global	Relevance of the Course
STC221310	Descriptive Statistics	Global	Descriptive statistics are highly relevant to national needs for several reasons. They play a crucial role in understanding, analysing, and presenting data about various aspects of a nation's economy, society, and government. Descriptive statistics are used to summarize and present economic data, such as GDP growth, inflation rates, and employment figures. These statistics help policymakers, businesses, and researchers assess the health and performance of a nation's economy. Descriptive statistics are used to assess a nation's economic and social indicators in comparison to other countries. This information is vital for diplomatic relations, trade negotiations, and international cooperation
STC222310	Probability and Probability Distributions	Global	<ul style="list-style-type: none">Probability and probability distributions are highly relevant to global needs in various fields and sectors. Here are some key areas where probability and probability distributions play a crucial role: probability is used to assess the likelihood of extreme weather events, such as hurricanes, droughts, and heatwaves.

			<ul style="list-style-type: none">• Probability distributions are essential for modelling climate data, helping policymakers and scientists plan for climate change impacts.• Probability is used to assess the likelihood of earthquakes, tsunamis, and other natural disasters.• Probability distributions aid emergency responders in planning and resource allocation during disasters.
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A.S.D. GOVT DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA**

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


**Curriculum & Its Relevance to Local/Regional/National/Global
Needs**

2022-23

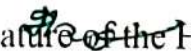
Department: Telugu

No. of Programmes offered: 03

Course Code	Course Title	Local/Regional/National/Global	Relevance of the Course
TEL 20101	Pracheena Telugu Sahityan	Global	The course enables the learner; to recognise the importance of the eligibilities of the administrator and the precautions to be taken while selecting the skilled persons in various fields as officers of the public welfare programmes to be undertaken by the administrator, the Good Governance Programme, the military welfare programs, etc.
TEL 20201	Aadhunika Telugu Sahityam	National	The course enables the learner; to understand political and socio revolutions of 19 th century in India, Problems faced by artisans and farmers in India, systemic deficiencies etc. The course also helps the learner; to understand various modern literary forms poetry, Short story, Novel, Drama, Criticism in Telugu.
TEL 20301	Srujanaatmaka Rachana	Global	The course enables the learner; to develop creative writing skills and to use language skills. Writing skills can be expressed in a creative form, can take advantage of employment opportunities, acquire proficiency. The course also helps the learners to develop Communication skills, creative writing, translation, writing for Print and Electronic media.


Signature of the Principal

**PRINCIPAL
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AUTONOMOUS
KAKINADA**


Signature of the HOD

A.S.D. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A)
Department of Computer Applications
Curriculum and its Relevance to Local/Regional/ National/ Global Needs

Developmental Needs 2022-23

Name of the Department: Computer Applications

No of Programmes offered by the Dept: 1

Total No. of courses across all programs offered by the department: 6

B.Com.(Computer Applications)

Course Code	Course Title	Local/ Regional /National/ Global	Relevance of the Course
IT201204(2)	Information Technology	Global	This course aims to design, implement and evaluate a computer-based system, or process component, to meet the desired needs within the realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
EC202204(2)	E-Commerce and Web Designing	Global	This course provides an introduction to information systems for business and management. It is designed to familiarize students with organizational and managerial foundations of systems, the technical foundation for understanding information systems. It also helps to to construct basic websites using HTML and Cascading Style Sheets.
PC203204(1)	Programming with C & C++	Global	The course is designed for providing basic knowledge of C & C++. It aims at enabling the students to formulate simple algorithms for arithmetic and logical problems. Translate the algorithms to programs in C and C++ language.
DBMS5208(1)	Database Management Systems	Global	This course presents an introduction to database management systems, with an emphasis on how to organize, maintain and retrieve - efficiently, and effectively - information from a database. Helps in mastering the basics of SQL and construct queries using SQL. It also focuses on the relational database design principles.

BDA205207	Big Data Analytics Using R	Global	This course is used to describe Big Data and its importance. Analyse the unstructured data and apply R programming concepts on it. Uncover key insights and create data-driven solutions for business challenges. Generate predictions based on the analysed data.
DSP205208	Data Science Using Python	Global	This Data Science using Python course gives a complete overview of Python's data analytics tools and techniques. Learning python is a crucial skill for many data science roles, and one can develop it with this Python data science course.

N.N.S. Eswari
Signature of the HOD

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DEPT. OF COMPUTER SCIENCE
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AUTONOMOUS
KARNATAKA

V. Anand
Signature of the Principal
Principal
A.S.D. GOVT. DEGREE COLLEGE (W)
AUTONOMOUS
KARNATAKA

ASD Government Degree College for Women (A) Kakinada

Curriculum and Its Relevance to Local / Regional / National / Global Needs 2022-2023

- Name of the Department: **Commerce**
- No of Programmes offered by the Department : 2
 - **B.Com General**
 - **B.Com Computer Applications**
- Total No. Of courses across all Programs Offered by the Department: 25

Programme	Course	Course Code	Local/ Regional/ National/ Global Needs	Relevance
B.Com	FA201201	Fundamentals of Accounting	Global	Facilitates international business transactions through standardized financial reporting. Contributes to national economic growth and stability by ensuring reliable financial reporting Standardizes accounting practices within the region for better financial reporting. Provides skills for local businesses to maintain accurate financial records.
	BOM201202	Business Organization & Management	Global / National / Regional and Local	Facilitates the exchange of management practices and strategies in global business networks. Contributes to national productivity and competitiveness through effective business management. Enables regional businesses to establish effective management structures and optimize performance. Develops skills for local businesses to efficiently manage resources and organizational operations
	BE201203	Business environment	Global / National / Regional and Local	Enables businesses to navigate global business environments and adapt to international trends Contributes to national policy-making and strategic planning for sustainable economic growth. Provides regional businesses with insights into the regional economic, social, and political landscape Assists local businesses in understanding and adapting to the local business environment
	FA202201	Financial Accounting	Global	Facilitates international business transactions through standardized financial reporting. Contributes to national economic growth and stability by ensuring reliable financial reporting Standardizes accounting practices within the region for

				<p>better financial reporting. Provides skills for local businesses to maintain accurate financial records.</p>
BE202202	Business economics	Global		<p>Enables businesses to understand and adapt to global economic changes and trends.(analysis and evaluation) Contributes to national economic policies and planning for sustainable development.</p>
BTP202203	Banking Theory & Practice	Global / National / Regional and Local		<p>Provides regional businesses with access to banking services and credit facilities. Equips local businesses with knowledge of banking services and financial transactions. Provides information to the stability and growth of the national banking sector.</p>
AA203201	Advanced Accounting	Global		<p>Enrich the student's ability to analyze, interpret and present various financial statements of trading and non-trading firms Provides skills for local businesses to maintain accurate financial records and In-depth study of complex accounting procedures</p>
BS203202	Business statistics	Global		<p>Makes students understand various tools and techniques useful for data collection & analysis, research methodology theories which can be used to analyze</p>
MRK203203	Marketing	Global/ National / Regional and Local		<p>This Paper helps the students to know Enables businesses to enter and compete in global markets through effective marketing strategies, branding and market expansion for domestic products and services. and capitalize on marketing opportunities within the region.</p>
CA204201	Corporate Accounting	Global		<p>Facilitates international business transactions through standardized financial reporting. Contributes to national economic growth and stability by ensuring reliable financial reporting Standardizes accounting practices within the region for better financial reporting. Provides skills for local businesses to maintain accurate financial records.</p>
CMA204202	Cost & Management Accounting	Global		<p>Facilitates knowledge on cost ing and pricing through standardized financial reporting. Standardizes accounting practices within the region for better financial strategies. Provides skills for local businesses to maintain accurate financial records.</p>
IT204203	Income tax	National		<p>Understand the income tax laws, regulations, and computation of taxable income., ncome tax assessment. Provides local businesses with in-depth knowledge of local income tax laws and ensures compliance and salaried people.</p>

	BL204204	Business Laws	National / Regional and Local	Students Are Free To Study of legal principles and regulations relevant to business operations and contracts. Educates local businesses on legal rights, obligations, and best practices in business operations Establishes a legal framework that governs business activities and protects stakeholders' rights. Facilitates international trade and business transactions by establishing legal agreements
	AUD204205	Auditing	Global/ National	Study of auditing principles, techniques, and practices to ensure accuracy and reliability of financial information by establishing consistent auditing standards and practices
	GST204206	Goods & Service tax	National/ Global	Study of GST laws, regulations, and compliance, including tax calculation and reporting. And effective GST implementation, including rate revisions and policy improvements. GST regulations, facilitating cross-border trade and GST compliance.
	CBL5201	Business Leadership	Global / National / Regional and Local	Exploration of leadership theories, strategies, and skills for effective business management
	CA5202	Cost Accounting	Global/ National / Regional and Local	Facilitates international business transactions through standardized financial reporting. Contributes to national economic growth and stability by ensuring reliable financial reporting Standardizes accounting practices within the region for better financial reporting. Provides skills for local businesses to maintain accurate financial records.
	GST5203	GST Fundamentals	National	Study of GST laws, regulations, and compliance, including tax calculation and reporting. And effective GST implementation, including rate revisions and policy improvements. GST regulations, facilitating cross-border trade and GST compliance
	MAP205201-18A	Management Accounting and Practice	Global/ National / Regional and Local	Facilitates international business transactions through standardized financial reporting. Contributes to national economic growth and stability by ensuring reliable financial reporting Standardizes accounting practices within the region for better financial reporting. Provides skills for local businesses to maintain accurate financial records.
	CCT205202-19A	Cost Control Techniques	National / Regional and Local	Facilitates knowledge on cost ing and pricing through standardized financial reporting. Standardizes accounting practices within the region for better financial strategies. Provides skills for local businesses to maintain accurate financial record at advanced level.

LIP205203-20B	Life Insurance with Practice	National / Regional and Local		<p>Local cost control techniques are essential for managing expenses and ensuring cost-effective operations within the local market.</p> <p>Regional cost control methods may be influenced by factors like regional economic conditions, affecting cost management practices within a specific region.</p> <p>National cost optimization strategies help businesses streamline operations and remain competitive while complying with national regulatory requirements.</p> <p>Global cost efficiency strategies and best practices enable businesses to optimize operations across borders, minimize costs, and enhance competitiveness in the global market.</p>
GIP205204-21B	General Insurance Procedure and practice	Global/ National / Regional and Local		<p>Understanding local insurance operations and procedures is crucial for providing insurance services that meet the specific needs of the local community.</p> <p>Regional insurance norms and regulations may influence insurance product offerings and claims processing within a specific region.</p> <p>National insurance policies and regulations govern the insurance industry, impacting product development, underwriting, and claims management at the national level.</p> <p>Global insurance practices and industry standards are important for multinational insurance companies to offer consistent and compliant insurance products and services internationally. .</p>
DM205205-16C	Digital Marketing	Global/ National / Regional and Local		<p>Local digital marketing strategies help businesses effectively reach and engage the local target audience in the digital landscape.</p> <p>Regional digital marketing practices may vary based on technology adoption and online consumer behavior within a specific region.</p> <p>National digital marketing strategies align with the country's digital ecosystem, consumer preferences, and regulatory requirements for online marketing.</p> <p>Global digital marketing trends and best practices enable businesses to optimize their digital marketing efforts, reach a global audience, and stay competitive in the global digital marketplace.</p>
SM205206-17C	Service Marketing	Global/ National / Regional and Local		<p>Learn that Local service marketing tactics are essential for promoting services and attracting customers within the local market.</p> <p>Regional marketing trends impact how services are marketed and positioned to consumers in a specific geographic area.</p> <p>National service marketing strategies align with the country's cultural nuances and consumer behaviors,</p>

				<p>shaping how services are marketed nationally. Global service marketing practices and strategies are critical for multinational service-based companies to effectively promote and sell services in diverse international markets.</p>
	LTI2020		Regional/ local	<p>Students Are Free To Choose An Area of interest where they are typically expected to take their career</p>

I/C Department of Commerce

Principal

A.S.D. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A)
Department of Computer Science
Curriculum and its Relevance to Local/Regional/ National/ Global Needs
Developmental Needs 2022-23

Name of the Department: Computer Science

No of Programmes offered by the Dept: 2

Total No. of courses across all programs offered by the department: 7

B.Sc.(Computer Science)

Course Code	Course Title	Local/Regional /National/Global	Relevance of the Course
CS201304(2)	Problem Solving in C	Global	This course is aimed at enabling the students to formulate simple algorithms for arithmetic and logical problems. Translate the algorithms to programs in C language. Understand and use various constructs of the programming language such as conditionals, iteration, and recursion.
CS202304(2)	Data Structures Using C	Global	This course helps to assess how the choice of data structures and algorithm design methods impacts the performance of programs. It enables the student to choose the appropriate data structure and algorithm design method for a specified application.
CS203304(1)	Data Base Management System	Global	This course presents an introduction to database management systems, with an emphasis on how to organize, maintain and retrieve - efficiently, and effectively - information from a database. Helps in mastering the basics of SQL and construct queries using SQL. It also focuses on the relational database design principles.

CS204307(1)	Object Oriented Programming Through Java	Global	Uses an integrated development environment to write, compile, run, and test object-oriented Java programs. It aids in developing interactive programs using Applets and Swings.
CS204308(1)	Operating Systems	Global	This course introduces the core concepts of operating systems, such as processes and threads, scheduling, synchronization, memory management, file systems, input and output device management and security.
CS205307	Web Interface Designing Technologies	Global	It introduces the fundamentals of Internet, and the principles of web design. This course aids to construct basic websites using HTML and Cascading Style Sheets. Also helps to build dynamic web pages with validation using Java Script objects and by applying different event handling mechanisms.
CS205308	Web Applications Development Using PHP & MYSQL	Global	This course aims at the process of changing a static website into a dynamic website run from a database using PHP and MySQL. Used to analyze the basic structure of a PHP web application.

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