

Y.A. GOVERNMENT COLLEGE(W), CHIRALA.
Affiliated to ANDHRA KESARI UNIVERSITY,
ONGOLE

Accredited by NAAC with 'B++' Grade



DEPARTMENT OF BOTANY

CO-POS-PSOS DOCUMENT

**(OUTCOMME BASED EDUCATION
-OBE FRAME WORK)**

ACADEMIC YEAR - 2025-2026

**Based on the standard curriculum for a
B.Sc. in Botany (Major/Honours),
the Programme
Programme Outcomes (POs)**

- PO 1. Scientific Knowledge: Acquire foundational knowledge of Botany, plant sciences, and related interdisciplinary subjects.
- PO 2. Problem Analysis: Develop the ability to identify, analyze, and solve problems related to plant science, including plant diseases and environmental challenges.
- PO 3. Experimental Skills: Gain proficiency in laboratory and field techniques, including microscopy, plant identification, and experimental design.
- PO 4. Modern Tool Usage: Learn to use modern scientific tools, instrumentation, and computer-based technologies (ICT/AI) for analyzing biological data.
- PO 5. Environmental Awareness: Internalize the need for biodiversity conservation, sustainability, and ecological stewardship.
- PO 6. Research Aptitude: Develop critical thinking and research skills through projects, field studies, and herbarium preparation.
- PO 7. Employability & Professionalism: Gain skills essential for careers in research, agriculture, horticulture, biotechnology, and other industries.

NAAC - B

Programme Specific Outcomes (PSOs)

- PSO 1. Understanding Plant Diversity: Recognize, classify, and trace the evolution of major plant groups, including algae, fungi, bryophytes, pteridophytes, gymnosperms, and angiosperms.
- PSO 2. Plant Anatomy and Development: Correlate structure with function in plants, understanding reproduction, morphogenesis, and embryology.
- PSO 3. Physiology and Biochemistry: Understand the biochemical pathways, metabolism, energy transformation, and physiological processes of plants.
- PSO 4. Genetics and Breeding: Comprehend the mechanisms of heredity and apply plant breeding techniques for crop improvement.
- PSO 5. Ecology and Environment: Measure biodiversity, assess threats, and understand ecosystem dynamics, including plant interactions and conservation strategies.
- PSO 6. Applied Botany: Gain knowledge in economic botany, plant pathology, horticulture, and tissue culture for human welfare and self-employment.

Typical Course Outcomes (COs) Highlights

- Microbiology/Pathology: Students identify plant pathogens and utilize microbes for environmental benefits.
- Taxonomy: Students acquire proficiency in classifying angiosperms and identifying plants in the field.
- Cell Biology/Genetics: Understand molecular mechanisms of inheritance and cell organelle functions.

These outcomes are structured to prepare graduates for higher studies (M.Sc./Ph.D.) or careers in areas such as Botanical Survey of India, forestry, agriculture, environmental consultancy, or teaching

Course Outcomes FOR B.SC BOTAY (MAJOR/HONURS)

SEMESTER-I COURSE 1: DIVERSITY OF MICROBES. THEORY

- I. Course Outcomes:** On completion of this course students will be able to:
1. Illustrate the origin of life on Earth and diversity, multiplication and economic value of viruses.
 2. Deliberate the general characteristics, and economic importance of special groups of bacteria.
 3. Explain the structure, nutrition, reproduction and significance of eubacteria.
 4. Evaluate the interactions of soil microbes among themselves and with plants.
 5. Compile the value and applications of microbes in various fields.

COURSE1: DIVERSITY OF MICROBES PRACTICAL

- I. Course Outcomes:** On successful completion of this practical course, student shall be able to:
1. Take all necessary precautions in the microbiology laboratory.
 2. Handle the instruments and prepare media for laboratory work.
 3. Identify various microbes through microscopic observations.

SEMESTER-I COURSE 2: DIVERSITY OF THALLOPHYTES THEORY

- I. Learning Objectives:** By the end of this course the learner has to:
1. Brief the general characters, classification and value of algae.
 2. Discuss the morphology, reproduction and life cycles of some algae.
 3. Tell the general characters, classification and value of fungi.
 4. Discuss the morphology, reproduction and life cycles of some fungi.
 5. Summarize the morphology, anatomy, reproduction and economic value of lichens.

SEMESTER-I COURSE 2: DIVERSITY OF THALLOPHYTES Practical Credits: 1 2 hrs/week

- I. Course Outcomes:** On successful completion of this practical course, student shall be able to:
1. Identify some algal and fungal species based on the structure of thalli and reproductive organs.
 2. Decipher the lichens based on morphological, anatomical and reproductive features.

3. Realize the value of algal, fungal and lichen products available in markets

SEMESTER-II

COURSE 3: DIVERSITY OF ARCHEGONIATES

Theory Credits: 3 3 hrs/week

- I. Course Outcomes:** On completion of this course students will be able to:
1. Compare and contrast the morphological, anatomical and reproductive features of some Bryophytes.
 2. Illustrate the morphological, anatomical and reproductive characteristics of some Pteridophytes.
 3. Infer the evolution of vasculature, heterospory, and seed habit in Pteridophytes.
 4. Compare and contrast the morphological, anatomical and reproductive features of some Gymnosperms.
 5. evaluate the evolutionary trends in Gymnosperms.

SEMESTER-II

COURSE 3: DIVERSITY OF ARCHEGONIATES

Practical Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, the student shall be able to:

1. distinguish the Pteridophytes and Gymnosperms based on their morphological, anatomical and reproductive structures.

II Laboratory/field exercises:

1. Study/ microscopic observation of vegetative, sectional/anatomical, and reproductive structures of the following using temporary or permanent slides/specimen/ mounts:
 - A. Bryophyta: *Marchantia*, *Anthoceros* and *Funaria*
 - B. Pteridophyta: *Rhynia*, *Lycopodium*, *Equisetum*, and *Marselia*
 - C. Gymnosperms: *Cycadeoidea*, *Pentoxylon*, *Cycas*, *Ginkgo* and *Gnetum*
2. Field trip to a Botanic garden or local floristic area/forest.

SEMESTER-II

COURSE 4: ANATOMY AND EMBRYOLOGY OF ANGIOSPERMS Theory

Credits: 3 3 hrs/week

I. Learning Objectives: By the end of this course the learner has to:

1. Deliberate about various types of tissues in plants and their organization.
2. Explain anomalous secondary growth in plants and economic value of woods.
3. Debate on structure of anther and development of male gametophyte in plants.
4. Discuss the structure of ovules and process of fertilization.
5. Explain the embryo development and seed structure in monocots and dicots.

II. Course Outcomes: On completion of this course students will be able to:

1. Categorize various tissues and evaluate their role in plants.
2. Explain anomalous secondary growth in some plants and justify the value of timber plants.
3. Summarize the events in micro-sporogenesis and development of male gametophyte.
4. Illustrate the events in mega-sporogenesis and development of female gametophyte.
5. Propose the incidents in embryogenesis and structure of seeds in angiosperms.

SEMESTER-II

COURSE 4: ANATOMY AND EMBRYOLOGY OF ANGIOSPERMS

Practical Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Conduct dissections of various plant organs and study the internal structures by staining.
2. Explain the embryological characteristics from sex organs to seeds in angiosperms.
3. Demonstrate skills in studying anatomical and embryological features of angiosperms.

Laboratory/field exercises:

4. Observation of meristems in dicot and monocot plants.
5. Tissue organization in shoot apices using permanent slides.
6. Anomalous secondary growth in root of *Beta vulgaris*
7. Anomalous secondary growth in stems of *Boerhaavia* and *Dracaena*.
8. Study of anther and ovules using permanent slides/photographs.
9. Study of pollen germination and pollen viability.
10. Dissection and observation of embryo sac haustoria in *Santalum* or *Argemone*.
11. Structure of endosperm (nuclear and cellular) using permanent slides/photographs.
12. Dissection and observation of endosperm haustoria in *Crotalaria* or *Coccinia*.
13. Developmental stages of dicot and monocot embryos using permanent slides/photographs.

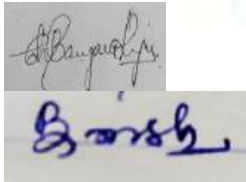
STUDENT DECLARATION

We the students of B. SC Honours BOTANY hereby declare that we have understood the Program Outcomes (Pos) Program Specific Outcomes (PSOs) and Course Outcomes (Cos) for the academic year 2025-2026.

We are aware of the Academic Expectations, Learning Objectives and Skill Development goals of this programme.

We commit to actively participate in Academic, Laboratory and Project activities to achieve the standard outcomes.

S.NO	OAMDC	Register Number	Name of the Student	Signature
1	OAMDC2346415	2530509301	ASODI REVATHI	A. Revathi
2	OAMDCSPOT0026 33699	2530509302	GOPATHOTI AKSHAYA ANGEL	G. Akshaya-Angel
3	OAMDC0045251	2530509303	KOKKILIGADDA KUMARI	K. Kumari
4	OAMDC2228961	2530509304	KONDAPATURI PRAVALLIKA	k. Pravalika
5	OAMDC0045699	2530509305	MIKKILI ANIVITHA	M. Anitha
6	OAMDC2195257	2530509306	PALEPU HYNE	P. Hyne
7	OAMDC2202716	2530509307	PERLI RAJA VARDHINI	P. Rajavardhini
8	OAMDC2345813	2530509308	SINGIRI SUJATHA	S. Sujatha
9	OAMDC2313485	2530509309	TALARI BLESSI	T. Blessi
10	OAMDC2346415	2530509310	YERIPILLI NAGA LAKSHMI	y. nagalakshmi



Signature of Lecturer.



Signature of Principal.

SEMESTER-III

COURSE 5: MORPHOLOGY AND TAXONOMY OF ANGIOSPERMS

Theory Credits: 3 3 hrs/week

I. Learning Objectives: By the end of this course the learner has:

1. To understand the vegetative and reproductive morphology of Angiospermic plant.
2. To acquire knowledge of the taxonomic aids and classification systems.
3. To read the vegetative and floral characteristics of some forms of angiospermic families along with their economic value.
4. To study the significance of other branches of botany in relation to plant taxonomy.

II. Learning Outcomes: On completion of this course students will be able to:

1. Illustrate the vegetative and reproductive morphology of angiosperms
2. Discuss about some Taxonomic aids and their applications in plant systematics.
3. Compare and contrast the vegetative and floral characteristics of some angiospermic families
4. Evaluate the economic value of plant species from the families under the study.
5. Defend the utility of evidences from different branches of botany in solving the taxonomic lineages of some species.

SEMESTER-III

COURSE 5: MORPHOLOGY AND TAXONOMY OF ANGIOSPERMS

Practical Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Make systematic classification of plant species using vegetative and floral characters.
2. Identify angiosperm plant species and make herbarium specimens.

II. Laboratory/field exercises:

1. Technical description of an Angiosperm plant
- II. Technical description of locally available plant species from the following angiosperm families:
 - (a) Annonaceae (b) Fabaceae (c) Curcubitaceae (d) Asteraceae (e) Asclepiadaceae
 - (f) Amaranthaceae (g) Euphorbiaceae (h) Orchidaceae (i) Poaceae

- III. Demonstration of herbarium techniques.
IV. Field trip to a local floristic area/forest (Submission of 30 number of Herbarium sheets of wild plants with the standard system are mandatory).

SEMESTER-III

COURSE 6: PLANT RESOURCES AND UTILIZATION

Theory Credits: 3 3 hrs/week

I. Learning Objectives: By the end of this course the learner has to:

1. Identify different plants domesticated by humans and utility of their products.
2. Gain knowledge on commercial and timber products obtained from plants.
3. Know the facts on economic value of plants products in relation to human welfare.

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

4. Explain the significance of plants in human nutrition
5. List out different plant products used by human beings
6. Evaluate the commercial plant products and their utilization
7. Discuss the uses of medicinal and aromatic plants for human health care.
8. Appraise the importance of timber and non-timber products for value added products

SEMESTER-III

COURSE 6: PLANT RESOURCES AND UTILIZATION

Practical Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Characterize various plant products based on morphological and microscopic observations.
2. Identify economically valuable plants and their products.
3. Categorize distinct plant products utilized by humans.

Laboratory/field exercises:

4. Identification of following plant resources mentioned in the theory syllabus
 - a) Food crops
 - b) Oilseeds and Commercial field and horticultural crops
 - c) Fibre crops, Spices, Condiments; Beverages and Narcotics
 - d) Medicinal and aromatic plant products
 - e) Timber yielding plants and energy plantations
5. Collection of different types of locally available rice varieties
6. Submission of any five economically important useful plant parts

7. Collection of different cereals and pulses.

SEMESTER-III

COURSE 7: PLANT ECOLOGY, BIODIVERSITY AND PHYTOGEOGRAPHY

Theory Credits: 3 3 hrs/week

I. Learning Objectives: By the end of this course the learner has to:

1. Figure-out the components of ecosystem and energy flow among different trophic levels.
2. Apprise the characteristics of autecology and synecology.
3. Understand the climatic change and associated impacts on biotic components.
4. Discern the value of biodiversity, threats and conservation strategies.
5. Know the distribution of various plant groups in different geographical areas.

SEMESTER-III

COURSE 7: PLANT ECOLOGY, BIODIVERSITY AND PHYTOGEOGRAPHY

Practical Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Handle instruments used in ecological studies.
2. Perform experiments and collect data on autecology and synecology.
3. Identify various plant groups based on their morphological and anatomical adaptations.
4. Collect data on biodiversity and phytogeography.

Laboratory/field exercises:

5. Study of instruments used to measure microclimatic variables;
 - a. Soil thermometer, b. Maximum and minimum thermometer,
 - c. Anemometer, d. Rain gauge, e. Lux meter.
6. Visit to the nearest/local meteorology station where the data is being collected regularly and record the field visit summary for the submission in the practical.
7. Study of morphological and anatomical adaptations of any two hydrophytes.
8. Study of morphological and anatomical adaptations of any two xerophytes.
9. Quantitative analysis of herbaceous vegetation in the college campus for frequency, density and abundance
10. Identification of vegetation/various plants in college campus and comparison with Rainier's frequency distribution law.
11. Find out the alpha-diversity of plants in an area

12. Mapping of biodiversity hotspots of the world and India.
13. Mapping of phytogeographical regions of the globe and India.

SEMESTER-IV

COURSE 8: CELL AND MOLECULAR BIOLOGY

Theory Credits: 3 3 hrs/week

I. Learning Objectives: By the end of this course the learner has:

1. To look into the ultra-structure of plant cell and its organelle
2. To know the morphology and functions of chromosomes
3. To understand the principles of autocatalysis and heterocatalysis of DNA

II. Learning Outcomes: On completion of this course students will be able to:

1. Sketch the ultra-structural aspects of plant cell and its components.
2. Hypothesise the role of chromosomes in inheritance.
3. Justify the role of genes in inheritance of characters by descent.
4. Correlate the functions of the nucleic acid with their structure.
5. Explain molecular mechanisms of DNA replication, transcription, translation, and gene regulation.

SEMESTER-IV

COURSE 9: GENETICS AND PLANT BREEDING

Theory Credits: 3 3 hrs/week

I. Learning Objectives: By the end of this course the learner has:

1. To look into the ultra-structure of plant cell and its organelle
2. To know the morphology and functions of chromosomes
3. To understand the principles of genetics, structure and functions of gene

II. Learning Outcomes: On completion of this course students will be able to:

1. Sketch the ultra-structural aspects of plant cell and its components.
2. Hypothesise the role of chromosomes in inheritance.
3. Justify the role of genes in inheritance of characters by descent.
4. Correlate the functions of the nucleic acid with their structure.
5. Explain the discoveries led to understand the fine structure of a gene.

SEMESTER-IV

COURSE 9: GENETICS AND PLANT BREEDING

Practical Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Apply Mendelian principles to solve genetic problems and analyze segregation and independent assortment using monohybrid and dihybrid crosses.
2. Conduct experiments to determine linkage, recombination, and gene mapping using test cross and three-point test cross data.
3. Perform emasculation and artificial hybridization techniques in self-pollinated and cross-pollinated crops.

II. Laboratory/field exercises:

1. Solving problems on monohybrid, dihybrid, back and test crosses.
2. Solving problems on gene interactions (at least one problem for each of the gene interactions in the syllabus).
3. Chromosomes mapping using problems of 3-point test cross data.
4. Floral biology in a self and a cross-pollinated plant species.
5. Practicing emasculation technique.
6. Practicing selfing and crossing techniques.

SEMESTER-IV

COURSE 10: PLANT PHYSIOLOGY AND METABOLISM

Theory Credits: 3 3 hrs/week

I. Learning Objectives: By the end of this course the learner has to:

1. Understand the concept of Soil-Plant-Atmosphere continuum based on plant-water relations.
2. Discuss the anabolic and catabolic processes in plants.
3. Explain the role of plant growth regulators on growth, development and flowering.

II. Learning Outcomes: On successful completion of this course, the students will be able to:

1. Comprehend the importance of water in plant life and mechanisms for transport of water and solutes in plants.
2. Explain the role of minerals in plant nutrition and their deficiency symptoms.
3. Hypothesize the light reactions and carbon assimilation processes responsible for synthesis of food in plants.
4. Analyze the biochemical reactions in relation to Nitrogen and lipid metabolisms.
5. Evaluate the physiological factors that regulate growth, development and flowering in plants.

SEMESTER-IV

COURSE 10: PLANT PHYSIOLOGY AND METABOLISM

Practical Credits: 1 2 hrs/week

I. Course outcomes: On successful completion of this practical course, students shall be able to:

1. Conduct lab and field experiments pertaining to plant physiology.
2. Estimate the quantities and qualitative expressions using experimental results and calculations
3. Interpret the factors responsible for growth and development in plants.

Laboratory/field exercises:

Major experiments:

4. Determination of osmotic potential of plant cell sap by plasmolytic method using *Rhoeo/ Tradescantia* leaves.
5. Calculation of stomatal index and stomatal frequency of a mesophyte, a hydrophyte and a xerophyte.
6. Determination of rate of transpiration using Cobalt chloride method / Ganong's potometer (at least for a dicot and a monocot).
7. Effect of temperature on membrane permeability by colorimetric method.
8. Study of mineral deficiency symptoms using plant material/photographs.
9. Demonstration of amylase enzyme activity and study the effect of substrate and Enzyme concentration.
10. Separation of chloroplast pigments using paper chromatography technique.
11. Demonstration of Polyphenol oxidase enzyme activity (Potato tuber or Apple fruit)
12. Anatomy of C3, C4 and CAM leaves.

Minor experiments:

1. Osmosis
2. Arc-auxanometer
3. Ascent of sap through xylem.

SEMESTER-V

COURSE 11: PLANT BIOTECHNOLOGY

Theory Credits: 3 3 hrs/week

I. Learning Objectives: By the end of this course the learner has:

1. Understand the fundamental principles of plant biotechnology and genetic engineering.
2. Learn the techniques involved in plant tissue culture and genetic transformation.
3. Explore the molecular tools used in the manipulation of plant genomes.
4. Study the development and application of genetically modified (GM) crops.

II. Learning Outcomes: On completion of this course students will be able to:

1. Explain the basic principles of plant molecular biology, tissue culture, and genetic engineering.
2. Explain the principles of plant tissue culture, including totipotency, differentiation, and aseptic techniques.
3. Perform basic techniques such as Agrobacterium-mediated transformation, PCR
4. Discuss the use of biotechnology in crop improvement (e.g., pest resistance, herbicide tolerance, stress resistance, nutritional enhancement).

SEMESTER-V

COURSE 11: PLANT BIOTECHNOLOGY

Practical Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Operate all the equipment and instruments in a plant tissue culture laboratory.
2. Establish callus and organ culture.
3. Obtain quality plants using micro-propagation techniques.

Laboratory/field exercises:

4. Equipment used in plant tissue culture.
5. Sterilization techniques in plant tissue culture laboratory.
6. Preparation of culture media
7. Demonstration of protoplast culture.

8. Demonstration of organ cultures.
9. Isolation of Plasmid DNA
10. Study of gene transfer methods through photographs: Electroporation, Microinjection, Micro projectile bombardment
11. Study of transgenic plants through photographs: Bt Cotton, Golden Rice, Flavr savr tomato

SEMESTER-V

COURSE 12 A: ETHNOBOTANY AND PHYTOMEDICINE

Theory Credits: 3 3 hrs/week

I. Learning objectives: By the end of this course the learner has to:

1. Understand basic concepts of ethnobotany with emphasis on plant-human interactions.
2. Discuss about the indigenous plants used by ethnic people.
3. Get familiarity with scientific methods of collecting data in ethnobotany.
4. Explain about plants used in making phytomedicines.
5. Discuss the techniques to screen the phytomedicines.

II. Course outcomes: On completion of this course students will be able to:

1. Infer the traditional knowledge among ethnic groups in utilizing plants.
2. Assess and determine the medicinal value of plants used by ethnic groups.
3. Take part in a ethnobotanical survey using standard methods.
4. Evaluate phytomedicines used for drug development.
5. Test the efficacy of phytomedicines using various techniques.

SEMESTER-V

COURSE 12 A: ETHNOBOTANY AND PHYTOMEDICINE

Practical Credits: 1 2 hrs/week I

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

6. Collect data from ethnic people based on the knowledge of theory course.
7. Identify the plants used by ethnic people in the field and institutional herbarium.
8. Perform various assays to determine the potential of herbal drugs.

II Laboratory/Field exercises:

1. Survey, document and frame hypothesis on people-plant relationship in a tribal settlement.
2. Review of a Peoples Biodiversity Register (PBR) in collaboration with BMC of a local self-government.
3. Collection, processing and preservation of ethnobotanical specimens in the institutional repository.
4. Identify and document plant parts used in preparation of crude drugs/herbal formulations.
5. Demonstration of antimicrobial activity of herbal drug of by disc diffusion method.
6. Estimation of antioxidant activity of a herbal drug.
7. Testing of cytotoxicity of herbal drug using web resources.

SEMESTER-V

COURSE 12 B: BIOINSTRUMENTATION TECHNIQUES

Theory Credits: 3 3 hrs/week

I. Learning Objectives: By the end of this course the learner has to:

1. Explain the centrifugation techniques and their significance.
2. Discuss different types of microscopic techniques.
3. Understand various types of chromatography techniques.
4. Tell about electrophoretic techniques for specified purposes.
5. Discuss various spectroscopic techniques used in biological sciences.

II. Course Outcomes: On completion of this course students will be able to:

1. Make use of pH meter and centrifuge during practical.
2. Observe and identify plant samples using different microscopes.
3. Test plant samples using different chromatography techniques.
4. Utilize electrophoretic techniques to characterize given plant sample.
5. Determine composition, structure and properties of plant samples using spectroscopy.

SEMESTER-V

COURSE 12 B: BIOINSTRUMENTATION TECHNIQUES

Practical Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Perform skills related to centrifugation and microscopy.
2. Perform skill of using chromatography and electrophoresis techniques.
3. Handle the spectroscopic instruments.

II. Laboratory/Field exercises:

4. Determination of pH of biological samples using pH meter
5. Demonstration of fractionation of a plant sample using centrifugation.
6. Observation of plant samples/slides using different microscopes.
7. Paper chromatography for chlorophyll/amino acid separation
8. Thin layer chromatography (TLC) for lipid separation
9. Demonstration of colorimetry for a plant sample.
10. SDS-PAGE for protein separation

SEMESTER-V

COURSE 12 C: CONCEPTS OF HORTICULTURE

Theory Credits: 3 3 hrs/week

I. Learning Objectives: By the end of this course the learner has to:

1. Discuss about the significance and branches of Horticulture.
2. Understand the potential of Horticulture sector in India and abroad.
3. Explain the characteristics of soil as an essential medium for horticultural plants.
4. Discuss various types of horticultural gardens with their requirements and usages.
5. Understand the water and weed management practices in a horticultural garden.

II. Course outcomes: Students at the successful completion of the course will be able to:

1. Classify the horticultural plants based on different criteria.
2. Estimate and infer the value of horticultural plants from various perspectives.
3. Compile the characteristics of soil with respect to cultivation of plants.
4. Appraise the raising of different types of horticultural gardens based on specific needs.
5. Compile the weed and water management practices in horticultural gardens.

SEMESTER-V

COURSE 13 A: TRADITIONAL SYSTEMS OF MEDICINE

Theory Credits: 3 3 hrs/week

I. Learning Objectives: By the end of this course the learner has to:

1. Understand various traditional systems of medicine and organizations working on them.
2. Explain the concepts of Ayurveda from philosophy to practices.
3. Discuss the diagnostic techniques and treatment methods in Siddha system of medicine.
4. Understand the practices and plants useful in Unani medicine.
5. Discuss about the Homeopathy and Naturopathy systems of medicine.

II. Course Outcomes: On completion of this course students will be able to:

1. Defend the significance of different traditional systems of medicine for human health care.
2. Judge the utilization of certain plants in preparation of Ayurveda formulations.
3. Recommend the Siddha system of medicine to keep up human health.
4. Interpret the use of some plants in making Unani medicines.
5. Justify the importance of Homeopathy and Naturopathy to cure ailments of human-beings.

SEMESTER-V

COURSE 13 A: TRADITIONAL SYSTEMS OF MEDICINE

Practical Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Identify various plants used in different systems of traditional medicine.
2. Perform analysis of the crude drugs prepared from plants.
3. Acquaint with the diagnosis and treatment of different traditional systems of medicine.

II. Laboratory/Field exercises:

1. Collection and identification of plants used in various traditional medicinal systems.
2. Preparation of crude drugs from the medicinal plants.
3. Demonstration of extraction methods for phytochemicals using web resources.
4. Chemical analysis of some phytomedicines using web resources.
5. Treatment protocols in different traditional systems of medicine.
6. Diagnostic methods in various traditional systems of medicine.
7. Documentation of symptoms associated with diseases of human beings by visiting hospitals.

SEMESTER-V

COURSE 13 B: PLANT GENETIC ENGINEERING

Theory Credits: 3 3 hrs/week

I. Learning Objectives: By the end of this course the learner has to:

1. Explain natural and modified restriction enzymes used in genetic engineering.
2. Discuss the characteristics of different vectors used in gene cloning.
3. Understand the methods for construction of DNA libraries.
4. Explain various techniques to create recombinant DNA.
5. Discuss the applications of genetic engineering in various fields to address the problems.

II. Course outcomes: Students at the successful completion of the course will be able to:

1. Appraise the role of restriction endonucleases in splicing of DNA molecule.
2. Choose appropriate vector for cloning the required gene.
3. Recommend the techniques for screening of recombinant DNA molecules.
4. Elaborate the techniques used in recombinant DNA technology.
5. Justify the role of genetic engineering in various fields with examples.

SEMESTER-V

COURSE 13 B: PLANT GENETIC ENGINEERING

Practical Credits: 1 2 hrs/week

I. Course Outcomes: Students at the successful completion of the course will be able to:

1. perform techniques of DNA isolation, gel electrophoresis, and gene transformation in plants.
2. demonstrate the ability to analyze genetically modified plants using molecular tools like PCR and marker analysis.
3. understand the biosafety, and ethical guidelines related to genetic engineering experiments.

II. Laboratory/Field exercises:

1. Isolation of DNA from plant cells.
2. Thermal melting of DNA and preparation of single stranded DNA template
3. Isolation of plasmid DNA.
4. In vitro DNA ligation, transformation of *E.coli*.
5. Agarose gel electrophoresis and restriction mapping of DNA.
6. Demonstration of DNA sequencing.
7. Demonstration of PCR.
8. Demonstration of reporter gene assay (Gus/CAT/b-GAL).
9. Demonstration of RFLP and RAPD techniques.

SEMESTER-V

COURSE 13 C: GARDENING AND LANDSCAPING

Theory Credits: 3 3 hrs/week

I. Learning Objectives: By the end of this course the learner has to:

1. Summarize the elements of gardening.
2. Explain the routine operations in a garden
3. Discuss the common pests and diseases of garden plants.

4. Name the famous gardens in India and abroad.
5. Explain about landscape designs of public places.

II. Course Outcomes: Students at the successful completion of the course will be able to:

1. Elaborate the principles of garden design with examples.
2. Decide the necessary operations for garden maintenance.
3. Formulate best practices for management of gardens.
4. Design and develop a landscape for garden with various elements.
5. Create an aesthetic landscape for a public place with the knowledge and skills acquired.

SEMESTER-V

COURSE 13 C: GARDENING AND LANDSCAPING

Practical Credits: 1 2 hrs/week

I. Course Outcomes: Students at the successful completion of the course will be able to:

1. Identify suitable garden plants to grow at his/her home or college.
2. Design and develop a garden with the theoretical knowledge and practical skills acquired.
3. Perform management skills related to landscape gardening.

II. Laboratory/Field exercises:

1. Identification of different types of garden plants.
2. Identification of garden tools and implements.
3. Designing of water garden and rock Garden
4. Identification of physical elements in landscape
5. Establish and maintenance of lawn and grass suitable for lawn.
6. Making of topiaries.
7. Making of terrarium
8. Identifying suitable for plant hedges and making of hedges.

SEMESTER-VI

COURSE 14 A: HERBAL TECHNOLOGY

Theory Credits: 3 3 hrs/week

I. Learning objectives: By the end of this course the learner has to:

1. Explain about herbal medicines and their nutraceutical values.

2. Discuss the utilization of hebal medicines to cure human ailments.
3. Summarize the extraction and formulation of herbal medicines.
4. Explain the screening methods used for herbal medicines.
5. Illustrate the standardization methods for herbal medicines.

II. Course outcomes: On completion of this course students will be able to:

1. Appraise the utilization of herbal medicines by Indians.
2. Justify the significance of herbal medicines to cure health problems of human beings.
3. Determine the dosage of herbal medicines for human beings based on different criteria.
4. Design and develop a screening method for a given herbal drug.
5. Predict a standardization method for a given herbal medicine.

SEMESTER-VI

COURSE 14 A: HERBAL TECHNOLOGY

Practical Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Identify and classify medicinal plants used as herbal medicines.
2. Determine the basic chemical constituents of the herbal drugs.
3. Make some herbal formulations that can be used by humans.

II. Laboratory/Field exercises:

1. Taxonomic identification of medicinal plants used for herbal formulations.
2. Preliminary phytochemical screening of crude drugs.
3. Determination of moisture content of crude drugs.
4. Determination of extractive values of crude drugs.
5. Preparation of herbal cosmetics.
6. Preparation and standardization of herbal formulation.
7. Evaluation of excipients of natural origin.

SEMESTER-VI

COURSE 14 B: BIOINFORMATICS AND COMPUTATIONAL BIOLOGY

Theory Credits: 3 3 hrs/week

I. Learning objectives: By the end of this course the learner has to:

1. Understand the fundamental concepts, and key data sources in bioinformatics.
2. Explain the secondary bioinformatics databases, data formats, organism-specific resources.
3. Discuss the principles and algorithms behind global and local pairwise sequence alignment.
4. Understand the interdisciplinary and distinctive nature of the computational biology.
5. Understand how biological sequences such as DNA and proteins are represented computationally.

II. Course Outcomes: On completion of this course students will be able to:

1. Select the appropriate primary database for his/her work on bioinformatics.
2. Identify and interpret standard biological data formats like FASTA and GenBank.
3. Evaluate global and local sequence alignments using appropriate algorithms and scoring matrices.
4. Construct phylogenetic trees, and critically assess computational approaches used in various fields of biology.
5. Apply basic statistical and probabilistic methods to interpret and analyze biological datasets.

SEMESTER-VI

COURSE 14 B: BIOINFORMATICS AND COMPUTATIONAL BIOLOGY

SEMESTER-VI

COURSE 14 C: PLANT PROPAGATION TECHNIQUES

Theory
hrs/week

Credits: 3

3

I. Learning objectives: By the end of this course the learner has to:

1. Understand the fundamental principles of plant propagation.
2. Explain the concepts of apomixis and polyembryony, and their significance in Horticulture.
3. Understand the principles and methods of plant propagation by cuttings.
4. Discuss various types of layering techniques used for propagation of plants.
5. various grafting methods and budding techniques for effective plant propagation

II. Course Outcomes: On completion of this course students will be able to:

1. Explain and differentiate between sexual and asexual propagation methods.
2. Differentiate types of apomixis and polyembryony based on advantages and disadvantages.
3. Predict different cutting methods for plant propagation across various stem types.
4. Demonstrate the ability to apply air layering techniques effectively for propagation of woody trees.
5. Perform different grafting and budding techniques for plant propagation.

Practical Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Demonstrate proficiency in accessing and analyzing genomic and transcriptomic data using public databases and bioinformatics tools.
2. Apply sequencing data analysis techniques, including alignment, phylogenetic tree construction, and differential gene expression analysis using R-based tools.
3. Utilize programming libraries for biological data processing, visualization, and interpretation in genomics and transcriptomics research.

Laboratory/field exercises:

4. Databases: NCBI, UniProt
5. Downloading genome/transcriptome data.
6. Hands on experience with BLAST analysis on protein/DNA.
7. Phylogenetic tree building (MEGA, PhyML)
8. Hands on experience with BEDTools, SAMtools.
9. Sequencing technologies: Illumina, Nanopore.
10. Differential expression using DESeq2 or edgeR (R/Bioconductor).
11. Study of Libraries: Biopython, pandas, matplotlib, Bioconductor packages.

SEMESTER-VI

COURSE 14 C: PLANT PROPAGATION TECHNIQUES

Practical Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Demonstrate hands-on skills in both sexual and asexual propagation.
2. Propagate a plant species by identifying a suitable method.
3. Operate horticultural tools and impenets, and manage plant propagation structures.

II. Laboratory/field exercises:

1. Preparation of nursery beds – flat, raised and sunken beds.
2. Practicing propagation using apomictic embryos.
3. Practicing propagation by separation and division technique.
4. Practicing propagation by cuttings.
5. Practicing propagation by layering
6. Practicing propagation by grafting.
7. Practicing propagation by budding.
8. Preparation of potting mixture, potting and repotting.
9. Visit to a Horticulture University/ local nursery.

SEMESTER-VI

COURSE 15 A: PHARMACOGNOSY AND PHYTOCHEMISTRY

Theory Credits: 3 3 hrs/week

I. Learning objectives: By the end of this course the learner has to:

1. Discuss the classification of drugs based on some criteria.
2. Explain the organoleptic and microscopic evaluation of herbals.
3. Summarize the secondary metabolites in plants and their anabolic pathways.
4. Explain the chemical nature and therapeutic uses of

II. Course Outcomes: On completion of this course students will be able to:

1. Categorize and elaborate the drug evaluation methods.
2. Compile the common adulterants of some herbal plants based on the knowledge acquired.
3. Classify various secondary metabolites in plants and conclude their biosynthetic pathways.
4. Assess the key phytochemical classes and discuss their medical applications.
5. Infer the characteristics of some phytochemical compounds.

SEMESTER-VI

COURSE 15 A: PHARMACOGNOSY AND PHYTOCHEMISTRY

Practical Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Identify the herbal plants having applications in traditional systems of medicine.
2. Perform physical and chemical evaluation of some plant drugs.
3. Summarize the secondary metabolites and phytochemicals of commercial applications.

II. Laboratory/field exercises:

1. Identification of herbal plants – *Aloe*, *Vinca*, Punarnava etc.,
2. Physical and chemical tests for evaluation of unorganized drugs-
Asaphoetida, Honey, Castor oil. *Acacia*
3. Identification of bark drugs – *Cinchona*, Cinnamon
4. Identification of fruit drugs – Cardamom, Coriander

5. Identification of root and rhizome drugs- Ginger, Garlic, Turmeric
6. A brief report on chemistry of secondary metabolites in plants.
7. A brief report on medicinal uses of phytochemicals.
8. Collection of locally available crude drugs from local vendors (minimum of 20)
9. Herbarium of medicinal plants (minimum of 20 plants)

SEMESTER-VI

COURSE 15 B: OMICS IN PLANT SCIENCES

Theory Credits: 3 3 hrs/week

I. Learning objectives: By the end of this course the learner has to:

1. Understand the principles and applications of omics technologies in plant sciences.
2. Explain the use of transcriptomics in studying plant development and stress responses.
3. Discuss the protein interactions and their role in plant physiology and stress responses.
4. Tell about the principles, techniques, and analytical tools used in plant metabolomics.
5. Explain the integrative omics approaches for analyzing complex biological data in plant research.

II. Course Outcomes: On completion of this course students will be able to:

1. Appraise the application of omics for trait improvement and functional gene studies in plants.
2. Justify the gene regulatory networks involved in plant growth, development, and stress adaptation.
3. Analyze proteomics data and predict roles in plant interactions, signalling, and stress responses.
4. Interpret the roles of plant metabolites in secondary metabolism, stress adaptation, and nutritional improvement.
5. Judge the role of omics in plant breeding, stress resilience, and synthetic biology while considering ethical and societal implications.

SEMESTER-VI

COURSE 15 B: OMICS IN PLANT SCIENCES

Practical Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Perform key molecular techniques for DNA, RNA, and protein extraction and analysis.
2. Analyze and interpret omics data from genomics, transcriptomics, proteomics, and metabolomics.

3. Predict molecular interactions and pathways in plant systems using omics approaches.

II. Laboratory/field exercises:

1. DNA extraction from plant leaves and PCR amplification of a gene of interest.
2. DNA sequencing technologies (e.g., Sanger, NGS) and data analysis.
3. RNA extraction, quantification, and quality assessment.
4. Microarray and RNA sequencing (RNA-Seq) data analysis.
5. Protein extraction, quantification, and purification from plant tissues.
6. Protein-protein interaction analysis.
7. Metabolite extraction, purification, and derivatization.
8. Metabolite profiling and pathway analysis.

SEMESTER-VI

COURSE 15 C: ORNAMENTAL HORTICULTURE AND COMMERCIAL FLORICULTURE

Theory Credits: 3 3 hrs/week

I. Learning objectives: By the end of this course the learner has to:

1. Explain the role of ornamental horticulture for creating aesthetic look of surroundings.
2. Understand the use of ornamental plants in various landscape settings.
3. Discuss about the cultivation, and management of loose flower crops.
4. Tell about global trends and best practices in cut flower production.
5. Understand the post-harvest management of flowers.

II. Course Outcomes: On completion of this course students will be able to:

1. Classify different types of ornamental plants based on design value and usage.
2. Plan, establish, and maintain lawns using appropriate methods.
3. Demonstrate skills of cultivation practices for plants that yield loose flowers.
4. Assess flower quality based on established standards for marketing.
5. Create value-added floral products such as garlands, dry flowers and perfumes.



SEMESTER-VI

COURSE 15 C: ORNAMENTAL HORTICULTURE AND COMMERCIAL FLORICULTURE

Practical

Credits: 1 2 hrs/week

I. Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Identify and classify ornamental and floricultural plants.
2. Demonstrate propagation and nursery techniques for floricultural crops.
3. Prepare floral products and manage post-harvest processes effectively.

II. Laboratory/Field Exercises:

1. Identification and classification of ornamental and flowering plants.
2. Preparation of floral arrangements and garlands.
3. Harvesting and post-harvest handling of cut flowers.
4. Packaging and grading of loose and cut flowers.
5. Drying and preservation of flowers and foliage.
6. Study of Bonsai techniques, Bonsai practicing and training.
7. Identification of suitable grasses and making a lawn.
8. Visit to a floriculture nursery or flower market.



Department of Chemistry
Y.A. Government College for Women
Chirala-523155, A.P.

Re-accredited with 'B⁺⁺' grade by NAAC

Email: gdcwchirala@gmail.com <https://yagcwchirala.ac.in>



NOTICE

The following are the learning outcomes of Four year UG Honours in B.Sc Chemistry as Major w.e.f from A.Y 2025-2026 onwards.

PROGRAMME OUTCOMES

On successful completion of the degree the students are able to:

POs	Program Outcomes
PO1	Obtain knowledge with facts and figures related to various subjects in basic sciences such as Physics, Chemistry, Biology, Mathematics, etc.
PO2	Understand the fundamental concepts, principles, and scientific theories related to various scientific phenomena and their relevance in daily life.
PO3	Acquire expertise in handling scientific instruments, planning and performing laboratory experiments noting the observations and drawing logical inferences from them.
PO4	Evaluate the given scientific data critically and systematically and drawing objective conclusions.
PO5	Able to think creatively (divergently and convergent) to propose novel ideas in explaining facts or providing new solution to the problems.
PO6	Develop the scientific outlook not only with respect to science subjects but also in all aspects related to life.
PO7	Absorb ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.
PO8	Realize the knowledge of subjects in other faculties such as humanities, performing arts, social sciences etc can greatly and effectively influence & inspire in evolving new scientific theories and inventions.

B.Sc (Chemistry) programme specific outcomes:

1. The students after completing course at graduation level in chemistry will develop an understanding of major concepts, theoretical principles and experimental findings in chemistry.
2. They will have an ability to work effectively in diverse teams in both classroom and laboratory.
3. They are able to employ critical thinking and efficient problem solving skills in the four basic areas of chemistry (analytical, inorganic, organic, and physical).
4. They are able to conduct experiments, analyze data, and interpret results, while observing responsible and ethical scientific conduct.

5. The students have effective written and oral communication skills, especially the ability to transmit complex technical information in a clear and concise manner.
6. They are able to use modern library searching and retrieval methods to obtain information about a topic, chemical, chemical technique, or an issue relating to chemistry.
7. They know the proper procedures and regulations for safe handling and use of chemicals and can follow the proper procedures and regulations for safe handling when using chemicals.
8. They are able to understand the ethical, historic, philosophical, and environmental dimensions of problems and issues facing chemists.
9. They find employment in industry or government or find employment in school systems as instructors or administrators.
10. They are able to understand the chemical basis for biological phenomena and cellular structure and how physiological conditions influence the structures and reactivities of biomolecules.
11. They have an idea of the chemical properties of amino acids, cofactors, sugars and the basic principles of protein and polysaccharide structure.
12. Academic and Professional Integrity-students will demonstrate awareness and understanding of the ethical standards of their academic discipline and/or profession.
13. They are familiar with application of safety and chemical hygiene regulations and practices.

COURSE 1: GENERAL CHEMISTRY

Course outcomes:

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

1. Describe the electronic configuration of elements and periodic trends.
2. Analyze the formation and properties of ionic and covalent compounds.
3. Apply VSEPR, hybridization, and MOT to predict molecular geometry and bonding.
4. Explain metallic bonding, hydrogen bonding, and intermolecular forces and relate them to physical properties.
5. Explain types of radioactivity, nuclear reactions, and real-life applications.

COURSE 2: INORGANIC CHEMISTRY

Course outcomes:

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

1. Explain the structures and preparation of key p-block compounds.
2. Classify d- and f-block elements and discuss their properties and oxidation states.
3. Analyze magnetic, catalytic, and color properties of transition metals.
4. Compare and contrast lanthanides and actinides based on electronic configuration.
5. Explain and differentiate various metallurgical processes used in the extraction of metals.

COURSE 3: ORGANIC CHEMISTRY-I

Course outcomes:

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

1. Study Inductive effect, Mesomeric effect, Hyperconjugation and its applications.
2. Explain the preparation and chemical properties of alkanes, alkenes, alkynes and benzene.
3. Analyze and apply Huckel's rule to benzenoid and non-benzenoid aromatic compounds.

4. Differentiate between Markownikoff and Anti-markownikoff addition. Ring activating and deactivating groups.

5. Interpret stereochemical representations and identify chiral molecules.

COURSE 4: PHYSICAL CHEMISTRY-I

Course outcomes:

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

1. Explain gas laws, ideal and real gases behaviour, and critical phenomena.
2. Describe properties of liquids and classify types and applications of liquid crystals.
3. Derive Bragg's equation and identify types of crystal defects.
4. Apply the phase rule to interpret phase diagrams and systems with eutectic/congruent/incongruent points.
5. Differentiate between types of adsorption and colloidal systems, and evaluate their applications.

COURSE 5: ORGANIC CHEMISTRY-II

Course outcomes:

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

1. Describe and compare SN1 and SN2 mechanisms in halogen compounds
2. Illustrate the methods of preparation and reactions of alcohols and phenols including rearrangements.
3. Predict products and explain mechanisms of carbonyl compound reactions.
4. Demonstrate the preparation and properties of carboxylic acid with mechanisms.
5. Apply synthetic strategies using acetoacetic and malonic esters for target molecule synthesis

COURSE 6: PHYSICAL CHEMISTRY-II

Course outcomes:

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

1. Understand Azeotropes, Raoult's law and Nernst distribution law.
2. Calculate colligative properties and molecular masses of solutes using various experimental methods.
3. Explain laws of photochemistry and mechanisms of photochemical reactions with qualitative concepts of fluorescence and phosphorescence.
4. Evaluate conductance behavior of electrolytes and perform conductometric titrations.
5. Illustrate working principles of electrochemical cells and perform potentiometric titrations.

COURSE 7: COORDINATION CHEMISTRY

Course outcomes:

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

1. Classify ligands and write IUPAC names of coordination compounds.
2. Explain VBT and CFT concepts to predict structures of complexes.
3. Analyze substitution mechanisms and assess kinetic/thermodynamic stability of complexes.
4. Describe bonding, electron count and synergic bonding in metal carbonyls.
5. Examine the biological roles and toxicity of metal ions and apply chelation in medicine.

COURSE 8: ORGANIC CHEMISTRY-III

Course outcomes:

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

1. Describe the synthesis and chemical behaviour of amines and nitro hydrocarbons.
2. Understand the synthetic applications of diazonium salts.

3. Illustrate aromaticity and reactivity patterns in five- and six-membered heterocycles.
4. Explain the structural features, stereochemistry, and reactivity of carbohydrates.
5. Classify and synthesize amino acids and explain their biochemical behaviour.

COURSE 9: PHYSICAL CHEMISTRY-III

Course outcomes:

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

1. Compare and evaluate acid-base theories and explain HSAB applications in predicting chemical reactivity.
2. Interpret concepts of pH, buffer solutions, solubility product, and ionic equilibria.
3. Apply the first law of thermodynamics to closed and open systems.
4. Calculate thermodynamic parameters (q, w, U, H) for ideal gases under various conditions.
5. Analyze entropy changes and distinguish between reversible, irreversible, spontaneous, and non-spontaneous processes.

COURSE 10: APPLIED AND PHYSICAL CHEMISTRY

Course outcomes:

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

1. Explain polymer classification and applications of commercial polymers.
2. Describe types, synthesis methods, and applications of nanomaterials.
3. Explain basic pharmaceutical concepts, including drug development and dosage forms.
4. Apply kinetic laws to analyze reaction rates and derive rate equations.
5. Evaluate the role of activation energy and enzyme catalysis in chemical reactions.

COURSE 11: ORGANIC SPECTROSCOPY

Course outcomes:

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

1. Describe the electromagnetic spectrum and principles behind UV-Visible, IR, and NMR, spectroscopy.
2. Analyze molecular structures using electronic transitions, chromophores, and λ_{\max} calculations.
3. Interpret IR spectra to identify functional groups and molecular vibrations.
4. Analyze NMR spectra for different compounds using chemical shifts and splitting patterns.
5. Interpret mass spectra using molecular ion peaks, fragmentation patterns, and rearrangements

COURSE 12 A: ANALYTICAL METHODS IN CHEMISTRY

Course outcomes:

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

1. Perform volumetric titrations with a clear understanding of concentration terms, indicators, and standard solutions.
2. Demonstrate gravimetric techniques including precipitation, filtration, drying, and ignition with minimal procedural errors.
3. Accurately interpret analytical data using statistical measures such as standard deviation, confidence interval, and error types.
4. Utilize laboratory apparatus effectively and follow correct protocols for safe and precise chemical analysis.
5. Analyse materials using thermal methods and interpret thermogravimetric curves for compounds like $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ and $\text{CaC}_2\text{O}_4 \cdot \text{H}_2\text{O}$.

COURSE 12 B: SYNTHETIC ORGANIC CHEMISTRY

Course outcomes:

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

1. Classify and explain various types of pericyclic reactions using molecular orbital theory.
2. Evaluate the symmetry and phase relationships in orbitals of conjugated systems to predict pericyclic reaction feasibility.
3. Distinguish between thermal and photochemical pericyclic processes and describe conditions favoring each.
4. Predict the stereochemical outcomes (conrotation vs disrotation) in electrocyclic reactions.
5. Utilize the Frontier Molecular Orbital approach to analyze and solve problems related to pericyclic reaction mechanisms.

COURSE 13 A: SEPARATION TECHNIQUES AND CHROMATOGRAPHY

Course outcomes:

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

1. Explain the principles and procedures of solvent extraction and ion exchange techniques.
2. Classify and apply chromatographic methods for qualitative and quantitative analysis.
3. Perform experiments using paper chromatography, TLC, and column chromatography for compound separation.
4. Understand the principle and functioning of single and double beam spectrophotometers.
5. Apply Beer-Lambert's law to estimate metal ions such as Fe^{2+} , Mn^{2+} , and Pb^{2+} using spectrophotometry.

COURSE 13 B: INDUSTRIAL CHEMISTRY-POLYMERS

Course outcomes:

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

1. Classify and describe various types of polymers and their properties based on their structure, origin, and application.
2. Explain different polymerization mechanisms and outline the industrial production of key polymers such as polystyrene and polymethacrylates.
3. Assess the types, structures, and functions of biodegradable polymers, and describe their relevance in sustainable material science.
4. Demonstrate knowledge of solid waste characteristics and disposal techniques, including composting and sanitary landfilling.
5. Apply the principles of waste minimization through Reduce, Reuse, and Recycle strategies and understand their environmental significance.

COURSE 14 A: GREEN CHEMISTRY AND NANOTECHNOLOGY

Course outcomes:

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

1. Explain the principles and goals of green chemistry and evaluate chemical reactions based on atom economy.
2. Apply green solvents and alternative energy sources such as supercritical CO_2 and microwave energy in synthesis.
3. Demonstrate understanding of green catalysis methods and perform basic green synthetic reactions.
4. Evaluate the role of nanomaterials in green synthesis, catalysis, energy, and environmental remediation.
5. Analyze and compare conventional and green approaches in terms of sustainability, efficiency, and environmental safety.

COURSE 14 B: INDUSTRIAL CHEMISTRY-FERTILIZERS AND SURFACE COATINGS

Course outcomes:

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

1. Identify and explain the types, manufacturing methods, and applications of industrial fertilizers, **including mixed and compound fertilizers.**
2. Describe the ingredients, processes, and technological advancements in the production of ceramics and cement, **including high-tech applications.**
3. Classify various surface coatings and interpret the roles of paints, pigments, and additives used in coating formulations.
4. Demonstrate an understanding of sugar production methods and apply basic analytical techniques for sugar testing and estimation.
5. Explain the complete process of pulp and paper manufacturing, **including chemical pulping and surface treatments.**

COURSE 15 A: ENVIRONMENT AND INDUSTRIAL CHEMICALS

Course outcomes:

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

1. Explain the components, types, and energy dynamics of ecosystems along with nutrient cycles.
2. Assess the toxicological effects of industrial and household chemicals on human health and the environment.
3. Describe the methods of handling and storing industrial gases along with their uses and hazards.
4. Evaluate renewable and non-renewable energy sources and suggest sustainable alternatives.
5. Analyze water quality using parameters such as BOD, COD, and dissolved oxygen, and understand modern purification methods

COURSE 15 B: FOOD CHEMISTRY

Course outcomes:

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

1. Classify food proteins, describe their structures, and explain their functional properties in food processing.
2. Evaluate the nutritional and chemical roles of lipids, vitamins, and minerals, including deficiency symptoms and interactions.
3. Analyze the composition and chemical behavior of milk and understand its role as a base for dairy product processing.
4. Describe the chemistry involved in the manufacture and storage of various dairy products such as butter, cheese, and ice cream.
5. Detect food adulterants and explain the role and types of additives used in food preservation and flavoring.

Dr. M. H. G.

HOD

Dept. of Chemistry

Y.A Govt college (W)

PRINCIPAL

Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P.)

DECLARATION BY STUDENTS ABOUT P.Os/P.S.Os/C.Os

This is to certify that the Programme Outcomes, Programme Specific Outcomes and Course Outcomes of 4-year UG Honours B.Sc Chemistry are explained to me. I have joined this course only after getting awareness on the learning outcomes of this course.

S.No	Class	Year of Joining	Roll No	Student Name	Mobile Number	Signature of the Student
1	I-B.Sc Chemistry	2025	1	M. ANUSHA	9502560863	M. Anusha
2	I-B.Sc Chemistry	2025	2	S. BHUVANA	9492448459	
3	I-B.Sc Chemistry	2025	3	B. BABY NAVYA SRI	9121696395	B. Baby Navya Sri
4	I-B.Sc Chemistry	2025	4	D. BLESSY	9176164279	D. Blessy
5	I-B.Sc Chemistry	2025	5	P. DHARANI TEJA	9948186249	P. Dharani Teja
6	I-B.Sc Chemistry	2025	6	B. GLORY	6304147192	B. Glory
7	I-B.Sc Chemistry	2025	7	SK. KARISHMA	8466931853	SK. Karishma
8	I-B.Sc Chemistry	2025	8	G. KUSUMA	8186094048	G. Kusuma
9	I-B.Sc Chemistry	2025	9	CH. NIKHILA	9346183455	CH. Nikhila
10	I-B.Sc Chemistry	2025	10	M. PADMA	9346928835	M. Padma
11	I-B.Sc Chemistry	2025	11	V. PRASANNA	9701407870	V. Lakshmi Prasanma
12	I-B.Sc Chemistry	2025	12	G. ROHINI	8500865675	G. Rohini
13	I-B.Sc Chemistry	2025	13	P. SAHITI	6300775990	P. Sahithi
14	I-B.Sc Chemistry	2025	14	SK.SHABEENA TABASSUM	8801581299	SK. shabeena Tabassum
15	I-B.Sc Chemistry	2025	15	G. YOGESWARI	8977306962	G. Yogeswari
16	I-B.Sc Chemistry	2025	16	P. SINDHU	8341398497	P. Sindhu

Ch. TM H. H.

HOD
Dept. of Chemistry
Y.A Govt. College (W)

PRINCIPAL
Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P)

Academic Year-2025-2026



Department of Commerce

Y.A. Government College for Women

Chirala - 523155, A.P.

Re-accredited with 'B' grade by NAAC

Email: gdcwchirala@gmail.com

<https://yagcwchirala.ac.in>

Notice

The following are the learning outcomes of three year B.Com programme, programme specific outcome with B.Com group and Commerce course. On Successful completion of the programme students are able to

Programming Outcomes

- PO- 1 Understand basic accounting principles and concepts.
- PO-2 Understand forms and structure of business organization.
- PO-3 Understand taxation system in India.
- PO-4 Understand Cost concepts and classification.
- PO-5 Understand advertising Principles and strategies.
- PO-6 Understand importance of customer relationship.

Programme Specific Outcomes

- PSO- 1 Ability to prepare journal, ledger, and trial balance.
- PSO- 2 Understanding of business ethics and social responsibility..
- PSO-3 File Income tax return and compute the tax liability of individuals.
- PSO-4 Preparation of Cost sheets.
- PSO- 5 Knowledge of social media and online advertising tools.
- PSO-6 Knowledge of customers loyalty and retention programs.
- PSO-7 Follow the ethics pertaining to business transactions.

PRINCIPAL

**Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P)**

I. B.Com (Gen & Com) (I – Sem)
Business Organization & Management

Course Outcomes:-

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

- ↓ Understand different forms of business organizations.
- ↓ Comprehend the naturev 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 just 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.

I. B.Com (Gen) (I – Sem)
Financial Accounting-I

Course Outcomes:-

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

- ↓ Understand the basuc concepts of financial accounting
- ↓ Analyse the accounting process
- ↓ Enable the students to understand the various methods of depreciation and its calculation
- ↓ Examine the impact of provisions and reserves on profitability of business.
- ↓ Workout with final accounts and assess the financial position of the concern.

I. B.Com (Gen) (II – Sem)
Financial Accounting-II

Course Outcomes:-

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

- ↓ Analyse the various accounts related to consignment business.
- ↓ Prepare accounts of joint ventures under different methods.
- ↓ Understand the preparation of receipts and payments income & expenditure accounts
- ↓ To explore the essence of partnership deed and preparation of accounts in partnership
- ↓ Applying accounting procededures for partner's death firm, dissolution and insolvency including the Garner vs. Murray Rule.

II. B.Com (Gen & Com) (III – Sem)
Advanced Accounting

Course 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 statement 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.

II. B.Com (Gen & Com) (III – Sem)
Income Tax

Course 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.

II. B.Com (Com) (III – Sem)

Organisational Behaviour(Minor)

Course Outcomes:-

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

- ↓ To understand individual and group mbehaviour at work place so as to improve the effectiveness of an organization.
- ↓ To understand different types of personality and learning styles and the factors affecting them.
- ↓ To understand different types of motivation.
- ↓ To inculcate leadership abilities and understand the application of different leadership styles and power centres.
- ↓ To understand organizational culture.

II. B.Com (Gen) (III – Sem)
Business Law

Course Outcomes:-

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

- ✚ 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.

II. B.Com (Gen) (III – Sem)
Banking Theory and Practice

Course Outcomes:-

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

- ✚ Understand the basic concepts of banks and functions of commercial banks.
- ✚ Demonstrate an awareness of law and practice in a banking context.
- ✚ Engage in critical analysis of the practice of banking law.
- ✚ Organize information as it relates to the regulation of banking products and services.
- ✚ Critically examine the current scenario of Indian Banking system.
- ✚ Formulate the procedure for better service to the customers from various banking innovations.

II. B.Com (Gen) (III – Sem)
Principles & Practice of General Insurance (Minor)

Course Outcomes:-

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

- ✚ To explore knowledge on General Insurance and various types in India.
- ✚ To Know about various provisions in health insurance contract.
- ✚ To understand and aware of various fire insurance policies.
- ✚ To explore knowledge on claims procedure & Documentation in general Insurance.
- ✚ To have in depth knowledge on various miscellaneous insurances prevail in India.

II. B.Com (Gen & Com) (III – Sem) **Corporate Accounting**

Course 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.

II. B.Com (Gen & Com) (IV – Sem) **Cost and Management Accounting**

Course 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 statement of firms and interpret the results.
- ↓ Prepare analysis of various special decisions, using relevant management techniques.

III. B.Com (Gen & Com) (V – Sem) **Advertising and Media Planning**

Course Outcomes:-

At the successful completion of the course students are able to:

- ↓ Understand the role of advertising in business environment
- ↓ Understand the legal and ethical issues in advertising
- ↓ Acquire skills in creating and developing advertisements
- ↓ Understand up-to-date advances in the current media Industry
- ↓ Acquire the necessary skills for planning and advertising media campaign.

III. B.Com (Com) (V – Sem)

GST Procedures and Practices

Course Outcomes:-

At the successful completion of the course students are able to:

- ✚ Understand the concept of Liability and Payment of GST
- ✚ Create a new company in Tally with GST components and establish environment for GST Voucher entry.
- ✚ Comprehend the utilization of input tax credit, and the reverse charge mechanism in GST.
- ✚ Acquire skills of preparation of GST Returns in accordance with GST Law and Tally.
- ✚ Acquire skill of online payment of GST through GST Portal.

III. B.Com (Gen) (V – Sem)

Customer Relationship Management

Course Outcomes:-

At the successful completion of the course students are able to:

- ✚ To be aware of the nuances of customer relationship
- ✚ To analyze the CRM link with the other aspects of marketing.
- ✚ To impart the basic knowledge of the role of CRM in increasing the sales of the company
- ✚ To make the students aware of the different CRM models in service Industry.
- ✚ To make the students aware and analyze the different issues in CRM.

III. B.Com (Gen) (V – Sem)

Digital Marketing

Course Outcomes:-

At the successful completion of the course students are able to:

- ✚ Analyze online Micro and Macro Environment and design and create website
- ✚ To impart skills by involving students online and email marketing.
- ✚ To acquire knowledge on digital marketing and various social media marketing.
- ✚ To Gaining digital marketing skills makes students more competitive in the job market and can lead to higher earning potential.
- ✚ They can work independently, choose flexible projects, or build and grow their own businesses

III. B.Com (Com) (V – Sem)

GST Procedures and Practices

Course Outcomes:-

At the successful completion of the course students are able to:

- ✚ Understand the concept of Liability and Payment of GST
- ✚ Create a new company in Tally with GST components and establish environment for GST Voucher entry.
- ✚ Comprehend the utilization of input tax credit, and the reverse charge mechanism in GST.
- ✚ Acquire skills of preparation of GST Returns in accordance with GST Law and Tally.
- ✚ Acquire skill of online payment of GST through GST Portal.

III. B.Com (Gen) (V – Sem)

Customer Relationship Management

Course Outcomes:-

At the successful completion of the course students are able to:

- ✚ To be aware of the nuances of customer relationship
- ✚ To analyze the CRM link with the other aspects of marketing.
- ✚ To impart the basic knowledge of the role of CRM in increasing the sales of the company
- ✚ To make the students aware of the different CRM models in service Industry.
- ✚ To make the students aware and analyze the different issues in CRM.

III. B.Com (Gen) (V – Sem)

Digital Marketing

Course Outcomes:-

At the successful completion of the course students are able to:


- ✚ Analyze online Micro and Macro Environment and design and create website
- ✚ To impart skills by involving students online and email marketing.
- ✚ To acquire knowledge on digital marketing and various social media marketing.
- ✚ To Gaining digital marketing skills makes students more competitive in the job market and can lead to higher earning potential.
- ✚ They can work independently, choose flexible projects, or build and grow their own businesses


PRINCIPAL
Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P.)

Declaration by Students About P.O.s/P.S.Os/C.Os

This is to certify the Programme Outcomes, Programme Specific Outcomes and Course Outcomes of B.Com programme with Commerce group, Commerce as one of the core are explained to me. I have joined this course after knowing/getting awareness on the learning outcomes of this course only.

S.No	Name of the Student	Class/Group	Year of joining	Mobile No	Signature
1.	U. Vimala	I.B.com (Gen)	2025	6300456270	U. Vimala
2.	V. Amulya	I.B.com (Gen)	2025	8608736223	V. Amulya
3.	K. Roshni Aparna	I.B.com (Gen)	2025	8639463799	K. R. Aparna
4.	P. Sravani	I.B.com (Gen)	2025	7013483990	P. Sravani
5.	Y. Tirupathamma	I.B.com (Gen)	2025	6281736807	Y. Tirupathamma
6.	J. Sruithi	I.B.com (Gen)	2025	809110506	J. Sruithi
7.	D. Kousha	I.B.com (Gen)	2025	9346835580	D. Kousha
8.	T. Sesi Rekha	I.B.com (Gen)	2025	9422771847	T. Sesi Rekha
9.	M. Vasavi	I.B.com (Gen)	2025	7569698021	M. Vasavi
10.	K. Meenakshi	I.B.com (Gen)	2025	9593958248	K. Meenakshi
11.	B. Keerthi	I.B.com (Gen)	2025	9963197759	B. Keerthi
12.	G. Namitha	I.B.com (Gen)	2025	7995575750	G. Namitha
13.	B. Madhuri	I.B.com (CA)	2025	9949395103	B. Madhuri
14.	K. Tejaswini	I.B.com (CA)	2025	9390920831	K. Tejaswini
15.	P. Swetha Kamala	I.B.com (CA)	2025	8142167232	P. Swetha
16.	V. Anurha	I.B.com (CA)	2025	9100280740	V. Anurha
17.	K. Chandrika	I.B.com (CA)	2025	9346268107	K. Chandrika
18.	J. Kaishnaveni	I.B.com (CA)	2025	8309904745	J. Kaishnaveni
19.	Mounika P.	I.B.com (CA)	2025	9063069556	P. Mounika
20.	T. Hasini	I.B.com (CA)	2025	9014784944	T. Hasini
21.	G. Raghavamma	I.B.com (CA)	2025	7036284651	G. Raghavamma
22.	M. Poojitha	I.B.com (CA)	2025	6305998676	M. Poojitha
23.	K. Sireesha	I.B.com (CA)	2025	9505829100	K. Sireesha
24.	D. Harini	I.B.com (CA)	2025	6303019617	D. Harini
25.	P. Raghavamma	I.B.com (CA)	2025	8886335550	P. Raghavamma
26.	K. Sravani	I.B.com (CA)	2025	8074167158	K. Sravani
27.	K. Jyothika	I.B.com (CA)	2025	7993538389	K. Jyothika
28.	S.K. Nazeeha	I.B.com (CA)	2025	7816051301	S.K. Nazeeha
29.	J. Lavanya	I.B.com (CA)	2025	9392335115	J. Lavanya
30.	D. Aksha	I.B.com (CA)	2025	7416996074	D. Aksha
31.	E. Renu	I.B.com (CA)	2025	7601047722	E. Renu
32.	G. Vijaya Durga	I.B.com (CA)	2025	7386778574	G. Durga
33.	M. Indu	I.B.com (CA)	2025	8074028462	M. Indu
34.	M. Harichandhana	I.B.com (CA)	2025	8106014742	M. Chandhana
35.	D. KAVYA	I.B.com (CA)	2025	9398033353	D. KAVYA
36.	G. Vyshnavi	I.B.com (CA)	2025	9603787527	G. Vyshnavi
37.	K. Divya Sri	I.B.com (CA)	2025	6302650966	K. Divya Sri
38.	G. Tharika	I.B.com (CA)	2025	8186890220	G. Tharika
39.	Y. Vijaya	I.B.com (CA)	2025	8121495219	Y. Vijaya
40.	K. Swetha	I.B.com (CA)	2025	6304294944	K. Swetha
41.	M. Sravanthi	I.B.com (CA)	2025	6300071026	M. Sravanthi
42.	N. Jhanvi	I.B.com (CA)	2025	6309905872	N. Jhanvi
43.	P. Gnanadharini	I.B.com (CA)	2025	9059346106	P. Gnanadharini


PRINCIPAL
 Y.A. Govt. College for Women
 CHIRALA, Bapatla Dist., (A.P)

**Y.A. GOVERNMENT COLLEGE(W),
CHIRALA**

Affiliated to ANDHRA KESARI UNIVERSITY, ONGOLE

Accredited by NAAC with 'B++' Grade



**DEPARTMENT OF COMPUTER APPLICATIONS
CO-POS-PSOS DOCUMENT
(OUTCOMME BASED EDUCATION -OBE FRAME WORK)**

ACADEMIC YEAR – 2025-26

B.COM HONOURS (COMPUTER APPLICATIONS) W.E.F 2025-26

PROGRAM OUTCOMES (POs)

After completion of B. Com (Computer Applications) programme, students will be able to:

PO1 – Business Knowledge

Students will gain fundamental knowledge of commerce, accounting, finance and business management.

PO2 – Computer Application Skills

Students will acquire knowledge in computer applications such as programming, database management and office automation.

PO3 – Analytical and Problem-Solving Skills

Students will develop analytical thinking and problem-solving skills to handle business and technological problems.

PO4 – Communication Skills

Students will improve communication and presentation skills for professional and academic environments.

PO5 – Digital Literacy

Students will effectively use modern digital tools, software and internet technologies in business operations.

PO6 – Ethical and Social Responsibility

Students will understand professional ethics, social responsibility and legal aspects related to business and technology.

PO7 – Employability and Entrepreneurship

Students will gain skills required for employment, higher education and entrepreneurship opportunities.



[Handwritten Signature]
Principal 78/03/
Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P.)

PROGRAM SPECIFIC OUTCOMES (PSOs)

After completion of B.Com (Computer Applications) programme, students will be able to:

PSO1 – Accounting and Business Applications

Apply accounting principles and business concepts using computerized accounting systems.

PSO2 – Web and E-Commerce Development

Design and develop basic websites and e-commerce applications using web technologies like HTML, CSS and JavaScript.

PSO3 – Database Management

Design, create and manage databases using DBMS concepts and SQL for business data processing.


PSO4 – Data Analysis and Visualization

Analyze business data using tools like Excel, Python and visualization software to support decision making.

PSO5 – Business Intelligence Tools

Use modern BI tools and dashboards to interpret business data and present meaningful insights.




Principal
Y.A. Govt. College for Women,
CHIRALA, Bapatla Dist., (A.P.)

COURSE OUTCOMES

SEMESTER-I

COURSE 2: Fundamentals of Information Technology & Office Automation

Course Outcomes:

Learners will be able to:

1. **Convert between binary, decimal, octal, and hexadecimal systems, and explain computer evolution and generations with examples.**
2. **Learners will demonstrate basic blocks of a computer and fundamental networking knowledge.**
3. **Create professional-level documents and design visually appealing presentations using word processing software and presentation software.**
4. **Manipulate data within spreadsheets, apply formulas, and generate accurate summaries and visualizations.**
5. **Apply data modelling techniques to analyze, organize, and represent data effectively in various scenarios.**

SEMESTER-II

COURSE 4: E-COMMERCE AND WEB APPLICATION DEVELOPMENT

Course Outcomes:

Learners will be able to:

1. **Describe e-commerce models, revenue strategies, and legal considerations including cyber laws and data privacy.**
2. **Implement basic web structures using HTML5 and apply web design principles suitable for digital commerce.**
3. **Create and style dynamic websites using CSS for layout, animation, and visual enhancements.**
4. **Write client-side scripts using JavaScript to enable interactivity, form validation, and event handling.**
5. **Build responsive e-commerce front-ends using the Bootstrap framework, incorporating reusable UI components and custom styling.**

SEMESTER-III

COURSE 7: DATABASE MANAGEMENT SYSTEM

Course Outcomes:

The Learners will be able to:

1. Differentiate between file systems and DBMS, and explain the evolution, architecture, and components of modern database systems.
2. Design conceptual data models using E-R and Extended E-R diagrams, including specialization, generalization, and aggregation.
3. Normalize relational schemas up to BCNF and apply relational algebra operations to query and manipulate data.
4. Write efficient SQL queries using DDL, DML, DCL, and TCL commands, and utilize functions, joins, and views for data analysis.
5. Develop PL/SQL blocks with control structures, procedures, and triggers, and manage transactions ensuring atomicity, consistency, isolation, and durability.

SEMESTER-IV

COURSE 10: DATA SCIENCE USING PYTHON

Course Outcomes:

1. Understand the role of data science, its components, and its relationship with AI and machine learning.
2. Apply Python programming constructs such as strings, lists, tuples, sets, and dictionaries to solve basic data problems.
3. Demonstrate the ability to perform data manipulation and cleaning using NumPy and Pandas.
4. Conduct exploratory data analysis and extract insights from datasets using Python-based tools.
5. Create and customize data visualizations using Matplotlib and Seaborn to communicate analytical findings.

SEMESTER-V

COURSE 12 B: BUSINESS INTELLIGENCE TOOLS AND DATA VISUALIZATION

Course Outcomes

By the end of this course, the student will be able to:

1. Describe the framework, scope, and applications of Business Intelligence.
2. Analyze business datasets using advanced Excel functions like pivot tables, Power Query, and dashboards.
3. Visualize data interactively using Tableau and build industry-grade dashboards.
4. Apply BI tools to different business domains (Finance, Marketing, HR, Operations).
5. Present analytical findings to stakeholders using compelling data storytelling techniques.

STUDENT DECLARATION

We the students of B. Com Honours Computer Applications hereby declare that we have understood the Program Outcomes (Pos) Program Specific Outcomes (PSOs) and Course Outcomes (Cos) for the academic year 2025-2026.

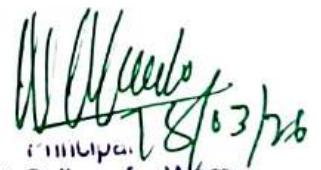
We are aware of the Academic Expectations, Learning Objectives and Skill Development goals of this programme.

We commit to actively participate in Academic, Laboratory and Project activities to achieve the standard outcomes.

S. No	Student Name	OAMDC No	Mobile No	Student Signature
01	VEERAMALLU ANUSHA	OAMDC2257493	9100280740	V. Anusha
02	SINGIRIMALLA DEEPIKA	OAMDC0027188	8712150407	S. Deepika
03	PANCHUMARTHI SWETHA KAMALA	OAMDC0028506	8142167232	P. Swetha kamala
04	KOMATLA SIREESHA	OAMDC0027663	9505829100	K. Sireesha
05	JENNIPOGU KRISHNAVENI	OAMDC2219790	8309904745	K. Krishnaveni
06	KANCHARLA TEJASWINI	OAMDC0026737	9390920831	K. Tejaswini
07	RENUMALA SINDHU	OAMDC2256803	9948122631	R. SINDHU
08	MUTHUKURI POOJITHA	OAMDC0027959	6305998676	M. Poojitha
09	MANEPALLI SRAVANTHI	OAMDC0026192	6300071027	M. Sravanthi
10	DAVALA AKSHA	OAMDC2248154	7416996074	D. Aksha
11	SHAIK NAZEEMA	OAMDC0043622	7816051301	Sk. Nazema
12	MANNAM ARUNA	OAMDC2224257	6302407064	M. Aruna
13	GOGULA VYSHNAVI	OAMDC0027018	9603787527	G. Vyshnavi
14	GANGULA HARIKA	OAMDC0029894	7386382220	G. Harika
15	KUKKALA DIVYASRI	OAMDC0025906	6309117871	K. Divya sri
16	KUNCHALA JYOTHIKA	OAMDC2241435	9701067526	K. Jyothika
17	BIRUDU MADHURI	OAMDC0022241	9502823346	B. madhuri
18	GUDDANTI VIJAYA DURGA	OAMDC0026143	7386778574	G. Vijaya Durga
19	PALIBOINA BAPAMMA	OAMDC2247577	8886335450	P. Bapamma
20	MAJETI HARI CHANDANA	OAMDC0020043	9949395103	M. Hari Chandana
21	NAMAPLLI JAHNAVI	OAMDC0028765	6309905872	N. Jahnavi

22	PEDAPALA MOUNICA	OAMDC2228201	9063069556	P. Mounica
23	GELLA RAHELAMMA	OAMDC0048501	7036284651	G. Rahelamma
24	DEVARAMPATI KAVYA	OAMDC2186046	9398033353	D. KAVYA
25	KAVATI SWETHA	OAMDC0029718	7382266799	K. Swetha
26	JAGARLAMUDI LAVANYA	OAMDC2248489	9392335115	J. Lavanya
27	POLINENI PUJITHA	OAMDC2222107	9515185127	P. Pujitha
28	SHAIK KOWSAR	OAMDC2187775	9676910168	SK. KOWSAR
29	RAVULA YASODHA	OAMDC2254313	8688846042	R. Yasodha
30	MADDU INDU	OAMDC2192886	9652608307	M. Indu
31	KATTA CHANDRIKA	OAMDC0026523	9346268107	K. Chandrika
32	KUMMARIGUNTA SRAVANI	OAMDC0018001	8374294690	K. Sravani
33	GANGAVARAPU NAMITHA	OAMDC0048834	7995575750	G. Namitha
34	DETA HARINI	OAMDC2186871	6303019617	D. Harini
35	PATTABHI BALA GOVARDHINI	OAMDC0027377	9059346106	P. Bala Govardhini
36	YERICHARLA VIJAYA	OAMDC0027302	7396598239	Y. Vijaya
37	GOLI RENU VENKATA SRI SAI	OAMDC0028167	7601047722	G. Renu
38	MIKKILI NAGA RATHNA KUMARI	OAMDC2221217	7330711565	M. Ratna Kumari
39	THOTAKURA HASINI	OAMDC2250356	7396818656	T. Hasini




 Y.A. Govt. College for Women,
 CHIRALA, Bapatla Dist., (A.P.)

**Y.A. Government College(W),
Chirala**



Dept. of Computer Science

**CO-PO-PSO MAPPING DOCUMENT
(Outcome Based Education – OBE
Framework)**

Academic Year: 2025–2026

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC YEAR: 2025–2026

PROGRAMME OUTCOMES (POs)

(B.Sc. – Computer Science)

After completion of B.Sc. Computer Science Programme, students will be able to:

PO1: Computational Knowledge

Apply knowledge of mathematics, computing fundamentals, and programming to solve real-world problems.

PO2: Problem Analysis

Identify, analyze, and formulate computing problems using appropriate algorithms and data structures.

PO3: Design & Development of Solutions

Design and develop software applications using modern programming languages and tools.

PO4: Modern Tool Usage

Use contemporary tools, technologies, and platforms such as DBMS, Java, Python, Web Technologies, and Data Science tools.

PO5: Ethics & Professional Responsibility

Understand professional ethics, cyber laws, and social responsibilities in computing practices.

PO6: Environment & Sustainability

Apply computing solutions considering environmental and societal impact.

PO7: Individual & Team Work

Function effectively as an individual and as a member/leader in diverse teams.

PO8: Communication Skills

Communicate effectively through reports, presentations, and documentation.

PO9: Lifelong Learning

Engage in independent and lifelong learning in the context of technological advancements.

PO10: Employability & Entrepreneurship

Demonstrate skills required for employment, higher education, research, and entrepreneurship.

Rafiqul Kabir

PROGRAMME SPECIFIC OUTCOMES (PSOs)

(B.Sc. Computer Science)

After completion of the programme, students will be able to:

- PSO1:** Develop efficient programs using C, Java, and Python.
- PSO2:** Design and implement data structures and database systems.
- PSO3:** Apply software engineering principles in application development.
- PSO4:** Develop web and mobile applications using modern technologies.
- PSO5:** Apply data analytics, machine learning, and visualization techniques.
- PSO6:** Analyze and implement networking and operating system concepts.

COURSE OUTCOMES (COs)

(B.Sc. Computer Science)

SEMESTER – I

Course 1: Computer Fundamentals and Office Automation

- CO1:** Explain number systems, generations of computers, and computer organization.
- CO2:** Describe computer architecture and basic networking concepts.
- CO3:** Create professional documents and presentations using office tools.
- CO4:** Apply spreadsheet formulas, functions, and charts for data analysis.
- CO5:** Design interactive dashboards using data visualization techniques.

Course 2: Problem Solving Using C

- CO1:** Understand programming fundamentals and write structured C programs.
- CO2:** Apply control statements to solve logical and iterative problems.
- CO3:** Implement arrays and strings for data manipulation.
- CO4:** Develop modular programs using functions and recursion.
- CO5:** Apply pointers, dynamic memory allocation, and file handling concepts.

Rafy

SEMESTER – II

Course 3: Data Structures Using C

- CO1: Explain algorithm analysis and asymptotic notations.
- CO2: Implement singly, doubly, and circular linked lists.
- CO3: Develop stack and queue operations using arrays and linked lists.
- CO4: Apply searching and sorting algorithms efficiently.
- CO5: Construct and traverse trees and graphs.

Course 4: Digital Logic Design

- CO1: Perform radix conversions and binary arithmetic operations.
- CO2: Simplify Boolean expressions using K-map and Boolean laws.
- CO3: Design combinational circuits like adders and subtractors.
- CO4: Implement multiplexers, encoders, and decoders.
- CO5: Design sequential circuits using flip-flops and counters.

SEMESTER – III

Course 5: OOPS Through Java

- CO1: Apply object-oriented principles in Java programming.
- CO2: Develop Java programs using arrays, classes, and methods.
- CO3: Implement inheritance, interfaces, and exception handling.
- CO4: Develop multithreaded and file handling applications.
- CO5: Design GUI applications using Swing and event handling.

Course 6: Database Management Systems

- CO1: Explain DBMS architecture and data models.
- CO2: Design ER and Enhanced ER diagrams.
- CO3: Apply relational algebra and normalization techniques.
- CO4: Write SQL queries for data definition and manipulation.
- CO5: Develop PL/SQL programs with procedures and triggers.

Course 7: Computer Organization

- CO1: Explain register transfer language and micro-operations.
- CO2: Describe CPU architecture and control unit design.
- CO3: Analyze memory hierarchy and cache mapping techniques.
- CO4: Explain I/O organization and DMA concepts.
- CO5: Apply arithmetic algorithms and floating-point operations.

Rajesh Kumar

SEMESTER – IV

Course 8: Operating Systems

- CO1: Explain OS structure and types of operating systems.
- CO2: Analyze process scheduling and thread management.
- CO3: Apply synchronization and deadlock handling techniques.
- CO4: Implement memory management strategies.
- CO5: Explain file systems, disk scheduling, and I/O management.

Course 9: Computer Networks

- CO1: Explain OSI and TCP/IP models.
- CO2: Describe data transmission and switching techniques.
- CO3: Analyze routing and network layer protocols.
- CO4: Implement transport and application layer protocols.
- CO5: Identify network security mechanisms.

Course 10: Python Programming

- CO1: Understand Python syntax and control structures.
- CO2: Implement functions, modules, and file handling.
- CO3: Apply object-oriented concepts in Python.
- CO4: Use Python libraries for data processing.
- CO5: Develop real-time applications using Python.

SEMESTER – V

Course 11: Software Engineering

- CO1: Explain SDLC models and software process frameworks.
- CO2: Perform requirement analysis and system design.
- CO3: Apply software testing techniques.
- CO4: Implement project management practices.
- CO5: Develop documentation and maintenance plans.

Domain A – Web Technologies

Course 12A: Web Interface Design Technologies

- CO1: Design responsive web pages using HTML and CSS.
- CO2: Implement client-side scripting using JavaScript.
- CO3: Apply UI/UX principles in web design.
- CO4: Use frameworks for front-end development.
- CO5: Deploy dynamic web pages.

Rafique

Course 13A: Web Application Development using PHP & MySQL

- CO1: Develop server-side applications using PHP.
- CO2: Design database-driven applications using MySQL.
- CO3: Implement CRUD operations.
- CO4: Apply session and cookie management.
- CO5: Deploy full web applications.

Domain B – Data Science

Course 12B: Data Science with R

- CO1: Understand R programming fundamentals.
- CO2: Apply statistical techniques in R.
- CO3: Perform data visualization.
- CO4: Analyze datasets using R packages.
- CO5: Build predictive models.

Course 13B: Python for Data Science

- CO1: Use NumPy and Pandas for data analysis.
- CO2: Perform data cleaning and preprocessing.
- CO3: Apply visualization using Matplotlib/Seaborn.
- CO4: Implement basic ML algorithms.
- CO5: Analyze real-world datasets.

SEMESTER – VI

Domain A

Course 14A: Mobile Application Development

- CO1: Design mobile UI components.
- CO2: Develop Android applications.
- CO3: Implement database connectivity.
- CO4: Integrate APIs and services.
- CO5: Deploy mobile apps.

Course 15A: MERN Stack

- CO1: Develop applications using MongoDB.
- CO2: Build REST APIs using Express & Node.js.
- CO3: Design front-end using React.
- CO4: Integrate full-stack applications.
- CO5: Deploy full-stack projects.

Course 13A: Web Application Development using PHP & MySQL

- CO1:** Develop server-side applications using PHP.
- CO2:** Design database-driven applications using MySQL.
- CO3:** Implement CRUD operations.
- CO4:** Apply session and cookie management.
- CO5:** Deploy full web applications.

Domain B – Data Science

Course 12B: Data Science with R

- CO1:** Understand R programming fundamentals.
- CO2:** Apply statistical techniques in R.
- CO3:** Perform data visualization.
- CO4:** Analyze datasets using R packages.
- CO5:** Build predictive models.

Course 13B: Python for Data Science

- CO1:** Use NumPy and Pandas for data analysis.
- CO2:** Perform data cleaning and preprocessing.
- CO3:** Apply visualization using Matplotlib/Seaborn.
- CO4:** Implement basic ML algorithms.
- CO5:** Analyze real-world datasets.

SEMESTER – VI

Domain A

Course 14A: Mobile Application Development

- CO1:** Design mobile UI components.
- CO2:** Develop Android applications.
- CO3:** Implement database connectivity.
- CO4:** Integrate APIs and services.
- CO5:** Deploy mobile apps.

Course 15A: MERN Stack

- CO1:** Develop applications using MongoDB.
- CO2:** Build REST APIs using Express & Node.js.
- CO3:** Design front-end using React.
- CO4:** Integrate full-stack applications.
- CO5:** Deploy full-stack projects.

Domain B

Course 14B: Data Visualization Tools

CO1: Apply visualization principles.

CO2: Use tools like Tableau/Power BI.

CO3: Create dashboards and reports.

CO4: Analyze business data visually.

CO5: Interpret insights from data.

Course 15B: Machine Learning

CO1: Explain ML concepts and algorithms.

CO2: Implement supervised learning models.

CO3: Apply unsupervised learning techniques.

CO4: Evaluate model performance.

CO5: Develop ML-based applications.

R. Srinivas

[Handwritten Signature]

PRINCIPAL

**Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P)**



DECLARATION BY STUDENTS

We, the students of B.Sc. Computer Science (Major), hereby declare that we have understood the Programme Outcomes (POs), Programme Specific Outcomes (PSOs), and Course Outcomes (COs) for the Academic Year 2025-2026.

We are aware of the academic expectations, learning objectives, and skill development goals of this programme.

We commit to actively participate in academic, laboratory, and project activities to achieve the stated outcomes.

Sl. NO	NAME OF THE STUDENT	OAMDC NO	MOBILE NUMBER	SIGNATURE OF THE STUDENT
1	PERAM PAVANA SRIYA	OAMDC2221025	6302488571	P. Pavana Sriya
2	RAMANADHAM VENKATA LAKSHMI TEJASWINI	OAMDC0022025	6303166960	R.v L. Tejaswini
3	DAIVALA POLERAMMA	OAMDC2192414	6281652059	D. Poleramma
4	INAGANTI ESWARI	OAMDC0017373	9390629226	I. Eswari
5	JALLA RATNAM	OAMDC0026017	9701744317	J. Ratnam
6	GORANTLA PAVANI	OAMDC0017043	9014258784	G. Pavani
7	ARJILLI THERISSA	OAMDC0016449	7207298270	A. Therissa
8	BANDI LALITHA	OAMDC0016687	7842803516	B. Lalitha
9	PARIMI SOWJANYA	OAMDC0015671	7032796947	Sowjanya P
10	PALLAPROLU NAGA ^{AMRUTHA} _{VARSHINI}	OAMDC2232597	7032237233	P.N.A. varshini
11	ENJAPALLI MAHITHA	OAMDC2245477	6301783830	E. Mahitha
12	P PARAMESWARI	OAMDC0018778	8008840628	P. Parameswari
13	ANGALAKUDURU RATNA	OAMDC0019035	9347315838	A. Ratna Priya
14	VEMAVARAPU BRAHMANI	OAMDC0017167	6305235517	V. Brahmani
15	KURAKULA SOWJANYA	OAMDC0017636	7207044363	K. Sowjanya
16	PAPABATHINA NAVYA	OAMDC2103504	8142701087	P. Navya
17	MEESALA VANI	OAMDC0018856	9948929059	M. Vani
18	KANUKULURI RAAJITHA	OAMDC2216885	9063917879	K. Rajitha
19	BUCHIRAJU PRAVALLIKA	OAMDC0019503	8897875069	B. Pravallika
20	VALLAGI KEERTHANA	OAMDC2253418	8374488749	V. Keerthana
21	USURUPATI SAROJINI	OAMDC0018183	7416352699	U. Sarojini
22	CHELLI JANAKI DEVI	OAMDC0043106	9347457402	Ch. Janaki devi
23	THATITHOTI ASWITHA	OAMDC0021289	8179735578	T. Aswitha
24	DOPPAPALUDI KIRANMAI	OAMDC2127365	6301257790	D. Kiranmai
25	GANJI RAMYA	OAMDC0026583	9032084038	G. Ramya
26	KONDETI KEERTHI	OAMDC0025061	6309835957	K. Keerthi
27	CHENNURI POOJAMANI	OAMDC0044913	6372322683	Ch. poojmani
28	SHAIK GULSHAN	OAMDC0020290	9030833601	SK. Gulshan
29	KUKKALA ^{NAGA} _{JYOSTHANA}	OAMDC0021726	8978330524	K. Naga Jyosthama
30	MACHARLA VENKATA ^{SRAWA}	OAMDC0018589	8328372055	M. Venkata Srawa
31	NALLAMALLI VENKATA YASASWI	OAMDC0018318	6303647895	N. V. Yasaswi
32	KORUKONDA RAMYA SRI	OAMDC0025896	9550586936	K. Ramyasri
33	AVVARU LAHARI	OAMDC0021309	9110782929	A. Lahari
34	MANDE PREETHI	OAMDC0020224	7093539483	M. Preethi
35	ANGALAKUDURU JYOTHI SRI	OAMDC0040365	8143837813	A. Jyothi Sri

Rajyalakshmi



[Signature]
PRINCIPAL

Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P.)

Y.A. Government College for Women

Chirala - 523155, A.P.
Re-accredited with 'B' grade by NAAC

DEPARTMENT OF ECONOMICS

2025-26



Email: gdcwchirala@gmail.com

<https://yagcwchirala.ac.in>

Program Objective

This program is to impart the knowledge and skills among the students in the field of economics as major along with skills in languages and selected minor subject.

The following are the learning outcomes of four year B.A programme

Program Outcomes:

- PO 1: Learn basic concepts, principles and theories in economics
- PO 2: Analyse issues in current economy at different levels
- PO 3: Acquire employability and research skills in the field of economics
- PO 4: Gain knowledge to understand the society around
- PO 5: Learn soft and life skills for effective communication and personality development

PROGRAMME SPECIFIC OUTCOME (PSO)

- PSO 1 To have a basic understanding on various economic theories and its application on real life situations.
- PSO 2 To understand the economic situations and adapt to it accordingly.
- PSO 3 Be able to apply methods of economic analysis (such as supply and demand, equilibrium, constrained optimization and dynamic analysis) to behaviour and social phenomena.
- PSO 4 Have the ability to employ statistical and econometric methods and software in the analysis of economic data and models.
- PSO 5 Be prepared for advanced study or employment.

Course Learning Outcomes

I. B.A (Single Major) (Sem -I)

COURSE 1: INTRODUCTION TO ECONOMICS

Course Outcomes:

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

- To recognize key concepts and the role of economics in decision making at the individual and at the society level to solve central economic problems;
- To learn major tools to understand functions in economics;
- To analyze the past and present structure of the Indian economy;
- To critically evaluate the current trends in the global economy;
- To judge the academic and career opportunities available for the students of economics.

I. B.A (Single Major) (Sem -I)

COURSE 2: MICROECONOMICS

Course Outcomes:

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

- To explain the Law of Demand, Elasticity of Demand and the behaviour of individual consumer in the market place in terms of Cardinal utility and Ordinal utility theories;
- To analyze the cost, revenue and production functions in terms of equations and graphs;
- To understand the functioning of perfectly competitive and monopoly markets;
- To evaluate the functioning of the realistic markets such as monopolistic competition and Oligopoly.
- To apply the principle of Marginal Productivity to the determination of the remuneration to the factors of production.

I. B.A (Single Major) (Sem –II)
3. MICROECONOMICS

Course Outcomes:

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

- To explain what is an economy, economics and differentiate between micro and macro economics
- To analyses the demand of a product and estimate elasticity
- To estimate production function and understand its application
- To analyze functioning of different markets and their differentiations
- To understand the determination of rent, wage, interest and profit

I. B.A (Single Major) (Sem –II)
4. MATHEMATICAL METHODS FOR ECONOMICS

Course Outcomes:

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

- To Explain the role of Mathematics in economics and learn simple growth rates and application of sets.
- To understand the importance of relations and functions, types and their applications.
- To understand the importance of matrix algebra, types, operations and its applications.
- To understand the rules of basic differentiation and their applications.
- To learn and use optimization problems in economics.

II. B.A (Single Major) (Sem –III)
5: MACROECONOMICS

Course Outcomes:

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

- To understand Explain the functioning a macro economy with its inter-linkages and measure and analyse the national income of the country
- To analyse the Classical and Keynes theories of employment and its application in current Economy
- To understand the importance of money and banking along with their functions Analyse RBI policies
- To analyse causes and evaluate the measures to control inflation and trade cycles In the economy
- To evaluate the macroeconomic policy targets

II. B.A (Single Major) (Sem –III)
6: ECONOMIC THOUGHT AND POLITICAL ECONOMY

Course Outcomes:

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

- To Explain the Economic thoughts of Pre-classical, Classical and Socialist.
- To Explain Neo-classical, Keynes and Post-Keynesian economic thoughts.
- To analyse the essence of institutional and behaviourists' economic thoughts.
- To understand the contribution of Indian economists to the evolution of economic thought.
- To analyze the political economy in relation to development.

II. B.A (Single Major) (Sem –III)
7: DEVELOPMENT ECONOMICS

Course Outcomes:

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

- To explain concepts of economic growth and development, measure them, identify their factors.
- To analyse the developmental issues of poverty, unemployment, inequality and sustainable development and suggest measures
- To comprehend the various theories of growth and development
- To examine and suggest various developmental strategies suitable to developing countries
- To understand the role of institutions, planning in economic development

Course Outcomes:

**II. B.A (Single Major) (Sem –III)
8: PUBLIC ECONOMICS**

- On successful completion of the course the student will be able to :
- To understand the basic concepts and principle of public finance
 - Discuss various sources of public revenue, different theories of taxation, tax systems and incidence of taxation
 - To analyse various principles, theories, practices of public expenditure with reference to public expenditure practices in India
 - To understand the concept of debt burden and its effect, budget concepts and deficits with reference to Indian economy
 - To Examine the importance of fiscal policy, fiscal federalism and discuss the role of finance commission with reference to India.

**II. B.A (Single Major) (Sem –IV)
9: INDIAN AND A.P ECONOMY**

Course Outcomes:

- On successful completion of the course the student will be able to :
- To explain the basic characteristics, structural changes, planning and human development in Indian economy
 - To understand the changes in incomes, demography and the developmental issues such as poverty, inequality, unemployment and migration and suggest measures to address them
 - To examine the components of agricultural and industrial sectors and their performance
 - To understand the issues in public finance in terms of taxes, revenues, deficits and finance commission
 - To understand the issues in Andhra Pradesh economy related to agriculture, industry And welfare programs

**II. B.A (Single Major) (Sem –IV)
10: STATISTICAL METHODS FOR ECONOMICS**

Course Outcomes:

- On successful completion of the course the student will be able to :
- To understand the nature of statistics and able to collect data using questionnaire
 - To draws critical diagrams and graphs for presentation of data
 - To calculates and Analyses Averages and Dispersions using given data and information
 - To explains the uses of correlation and regression analysis, time series and index numbers in economic analysis.
 - To calculate index numbers

**II. B.A (Single Major) (Sem –IV)
11: INTERNATIONAL ECONOMICS**

Course Outcomes:

- On successful completion of the course the student will be able to :
- To explain the importance and concepts of international trade
 - To make a critical analysis of the theories of international trade
 - To explain changes in the methods of determining exchange rates
 - To understand the effects of Trade Barriers and protectionism in International Trade.
 - To explain multilateralism, regionalism and India's international trade

III. B.A (Sem -V)
12: Entrepreneurship and MSMEs

Course Outcomes:

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

- To explain the basic theories and essentials of entrepreneurship
- To apply the theories of entrepreneurship to the conditions of local areas and formulate appropriate business ideas.
- To identify and analyze the entrepreneurship opportunities available in local area
- To demonstrate practical skills that will enable them to identify various funding sources
- To identify and evaluate the performance of local case studies by understanding the role of various supporting institutions under the existing regulations

III. B.A (Sem -V)
Paper - 13: INSURANCE SERVICES

Course Outcomes:

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

- To explain the concept and principles of insurance service and functioning of insurance service agencies.
- To understand different life insurance products.
- To identify the need for general insurance and different general insurance products.
- To demonstrate practical skills to enable them to start insurance service agency or earn wage employment in it.
- To evaluate the performance of local case studies by understanding customer mindset and the role of various supporting institutions under the existing regulations

II. B.A (Sem -V)
Paper - COURSE 14 A: RETAIL AND DIGITAL MARKETING

Course Outcomes:

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

- To explain the concepts and principles about the retail and digital marketing
- To identify and analyse the opportunities related to retail and digital marketing available in the local area
- To examine the strategies in retail marketing
- To demonstrate the practical skills in applying digital marketing strategies CO5: Evaluate different marketing models

III. B.A (Sem -V)
Paper - COURSE 15 A: FARMER PRODUCER ORGANISATIONS

Course Outcomes:

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

- To explain the concept and organization of FPO and its economic activities
- To identify and analyse the opportunities related to FPO in local rural area
- To apply the concepts to the identified FPO related opportunities available in the local area and formulate business ideas.
- To demonstrate practical skills that will enable them to identify finance sources and strategies for marketing
- To evaluate the performance of local case studies by understanding the role of various supporting institutions under the existing regulation


PRINCIPAL

Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P)

DECLARATION BY STUDENT/S ABOUT P.Os/S.P.Os/C.Os

This is to certify that the Programme outcome, Programme Specific out comes and Course out comes of BA (Single Major) Programme , Economics as one of the core course are explained to me.I have joined this course after knowing/getting awareness on the learning out comes of the course only

S.N O	Class & Sem	Year of joining 1yr Degree	Roll No/Reg.No.	Student Name	Mobile No.	Signature
1	BA(Single Major) & Sem I	2025	25101093001	A.Ammajji		A.Ammajji
2	BA(Single Major) & Sem I	2025	25101093002	A.Ahalya	9381797096	A.Ahalya
3	BA(Single Major) & Sem I	2025	25101093003	Ch.T.Chandrika		Ch.Chandrika
4	BA(Single Major) & Sem I	2025	25101093004	D.Nissi		D.Nissi
5	BA(Single Major) & Sem I	2025	25101093005	D.Sindhu		D.Sindhu
6	BA(Single Major) & Sem I	2025	25101093006	J.Sukeerthi	7075404707	J.Sukeerthi
7	BA(Single Major) & Sem I	2025	25101093007	K.Ankamma	9182829720	K.Ankamma
8	BA(Single Major) & Sem I	2025	25101093008	K.Thulasi Reddy	9346805808	K.Thulasi
9	BA(Single Major) & Sem I	2025	25101093009	N.Estherurani		N.Estherurani
10	BA(Single Major) & Sem I	2025	25101093010	P.Jyothi		P.Jyothi
11	BA(Single Major) & Sem I	2025	25101093011	S.Uthapalakshi		S.Uthapalakshi
12	BA(Single Major) & Sem I	2025	25101093012	V.Pavanibai		V.Pavanibai
13	BA(Single Major) & Sem I	2025	25101093013	V.Pavani	9989414935	V.Pavani
14	BA(Single Major) & Sem I	2025	25101093014	Y.Tejaswini	7386694817	Y.Tejaswini



PRINCIPAL

**Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P)**

DECLARATION BY STUDENT/S ABOUT P.Os/S.P.Os/C.Os

This is to certify that the Programme outcome, Programme Specific out comes and Couse out comes of BA (Single Major) Programme , Economics as one of the core course are explained to me.I have joined this course after knowing/getting awareness on the learning out comes of the course only

S.N O	Class & Sem	Year of joining 2yr Degree	Roll No/Reg.No.	Student Name	Mobile No.	Signature
1	BA(Single Major) & Sem III	2025	24101093001	B.Ramadevi	9160167757	B. Ramadevi
2	BA(Single Major) & Sem III	2025	24101093002	Ch.Avila	8074672182	Ch. Avila
3	BA(Single Major) & Sem III	2025	24101093003	D.Dhanusha	8978100878	D. Dhanusha
4	BA(Single Major) & Sem III	2025	24101093004	D.R.Sailatha		D.R. sailatha
5	BA(Single Major) & Sem III	2025	24101093005	E.Swathi	9059753710	E. Swathi
6	BA(Single Major) & Sem III	2025	24101093006	G.Vineela	9346354553	G. vineela
7	BA(Single Major) & Sem III	2025	24101093007	K.Sruthi	9100709498	K. Sruthi
8	BA(Single Major) & Sem III	2025	24101093008	K.Hepshibara ni	9492122207	K. HEPsiba Rani
9	BA(Single Major) & Sem III	2025	24101093009	L.Srivyshnavi	7396958730	L. Sri Vyshnavi
10	BA(Single Major) & Sem III	2025	24101093010	N.Grace	7794901675	N. Grace
11	BA(Single Major) & Sem III	2025	24101093011	N.Margaret	8978860267	N. Margaret
12	BA(Single Major) & Sem III	2025	24101093012	R.Sravva	9985453746	R. Sravva
13	BA(Single Major) & Sem III	2025	24101093013	Sk.Meharunni sha		sk. Meharunni sa
14	BA(Single Major) & Sem III	2025	24101093014	U.Sharonu	8019359810	U. Sharonu
15	BA(Single Major) & Sem III	2025	24101093015	V.Srilekha	7415338732	V. Srilekha
16	BA(Single Major) & Sem III	2025	24101093016	V.Sravvasri	8977667582	V. Sravvasri
17	BA(Single Major) & Sem III	2025	24101093017	V.Sindhuvu		



PRINCIPAL
Y.A. Govt. College for Women
GHIRALA, Bapatla Dist. (A.P)

DECLARATION BY STUDENT/S ABOUT P.Os/S.P.Os/C.Os

This is to certify that the Programme outcome, Programme Specific out comes and Course out comes of BA (Single Major) Programme , Economics as one of the core course are explained to me.I have joined this course after knowing/getting awareness on the learning out comes of the course only

S. No	Class & Sem	Year of joining 3yr Degree	Roll No/Reg.No.	Student Name	Mobile No.	Signature
1	BA(Single Major) & Sem V	2025	23101093001	ATLA KAVYA VARSHITHA	8374682732	A.Kavya
2	BA(Single Major) & Sem V	2025	23101093002	GOTTIPATI MAGGI	8639575639	G. Maggi
3	BA(Single Major) & Sem V	2025	23101093003	KATHI AVANTHI DEVI	7207765832	K. Avanthi Devi
4	BA(Single Major) & Sem V	2025	23101093004	KATIKALAPUDI TULASI LAKSHMI	9391453601	K. Tulasi
5	BA(Single Major) & Sem V	2025	23101093005	KONDURI KALYANI	7981240054	K. Kalyani
5	BA(Single Major) & Sem V	2025	23101093006	MITAI BHAVYA HITHA SRI	8688563386	M. Bhavya
7	BA(Single Major) & Sem V	2025	23101093007	MOGAL SHAHEERA	6300231316	M. Shaheera.
8	BA(Single Major) & Sem V	2025	23101093008	MUKIRIPUDI PAPA	8977048167	m. papa.
9	BA(Single Major) & Sem V	2025	23101093009	PODILI MOUNIKA	9133419902	P. Mounika
10	BA(Single Major) & Sem V	2025	23101093010	POLANI VASAVI	8885396606	P. Vasavi



PRINCIPAL

College for Women

DECLARATION BY STUDENT/S ABOUT P.Os/S.P.Os/C.Os

This is to certify that the Programme outcome, Programme Specific out comes and Couse out comes of BA (Single Major) Programme , Economics as one of the core course are explained to me.I have joined this course after knowing/getting awareness on the learning out comes of the course only

S.N O	Class & Sem	Year of Joining 1yr Degree	Roll No/Reg.No.	Student Name	Mobile No.	Signature
1	BA(Single Major) & Sem II	2025	25101093001	A.Ammajll	9381797096	A.Ammajll
2	BA(Single Major) & Sem II	2025	25101093002	A.Ahalya		A.Ahalya
3	BA(Single Major) & Sem II	2025	25101093003	Ch.T.Chandrika		ch. chandrika
4	BA(Single Major) & Sem II	2025	25101093004	D.Nissi		D.Nissi
5	BA(Single Major) & Sem II	2025	25101093005	D.Sindhu		D.Sindhu
6	BA(Single Major) & Sem II	2025	25101093006	J.Sukeerthi	7075404704	J.su keerthi
7	BA(Single Major) & Sem II	2025	25101093007	K.Ankamma	9182829720	K.Ankamma
8	BA(Single Major) & Sem II	2025	25101093008	K.Thulasi Reddy	9346805808	K.Thulasi
9	BA(Single Major) & Sem II	2025	25101093009	N.Estherurani		N. estherurani
10	BA(Single Major) & Sem II	2025	25101093010	P.Jyothi		p. Jyothi
11	BA(Single Major) & Sem II	2025	25101093011	S.Uthapalakshi		s. Uthapalakshi
12	BA(Single Major) & Sem II	2025	25101093012	V.Pavanibai		V. Pavanibai
13	BA(Single Major) & Sem II	2025	25101093013	V.Pavani	9989414935	v. Pavani
14	BA(Single Major) & Sem II	2025	25101093014	Y.Tejaswini	7386604847	Y Tejaswani


PRINCIPAL

**Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P.)**

DECLARATION BY STUDENT/S ABOUT P.Os/S.P.Os/C.Os

This is to certify that the Programme outcome, Programme Specific out comes and Course out comes of BA (Single Major) Programme , Economics as one of the core course are explained to me.I have joined this course after knowing/getting awareness on the learning out comes of the course only

S.N O	Class & Sem	Year of joining 2yr Degree	Roll No/Reg.No.	Student Name	Mobile No.	Signature
1	BA(Single Major) & Sem IV	2025	24101093001	B.Ramadevi	9600167757	B. Ramadevi
2	BA(Single Major) & Sem IV	2025	24101093002	Ch.Avila	8074672182	Ch. Avila
3	BA(Single Major) & Sem IV	2025	24101093003	D.Dhanusha	8978100878	D. Dhanusha
4	BA(Single Major) & Sem IV	2025	24101093004	D.R.Sailatha		D.R. sailatha
5	BA(Single Major) & Sem IV	2025	24101093005	E.Swathi	9039753700	E. Swathi
6	BA(Single Major) & Sem IV	2025	24101093006	G.Vineela	9346354553	G. vineela
7	BA(Single Major) & Sem IV	2025	24101093007	K.Sruthi	9100709498	K. sruthi
8	BA(Single Major) & Sem IV	2025	24101093008	K.Hepshibarani	9492122207	K. HEPshibarani
9	BA(Single Major) & Sem IV	2025	24101093009	L.Srivyshnavi	7396958730	L. srivyshnavi
10	BA(Single Major) & Sem IV	2025	24101093010	N.Grace	779401675	N. Grace
11	BA(Single Major) & Sem IV	2025	24101093011	N.Margaret	8978860267	N. Margaret
12	BA(Single Major) & Sem IV	2025	24101093012	R.Sravya	94101 9981073706	R. Sravya
13	BA(Single Major) & Sem IV	2025	24101093013	Sk.Meharunnisha		sk. Meharunnisha
14	BA(Single Major) & Sem IV	2025	24101093014	U.Sharonu	8019359810	U. Sharonu
15	BA(Single Major) & Sem IV	2025	24101093015	V.Srilekha	7416338732	v. Srilekha
16	BA(Single Major) & Sem IV	2025	24101093016	V.Sravyasri	897766582	V. Sravyasri
17	BA(Single Major) & Sem IV	2025	24101093017	V.Sindhuvu		V. Sindhuvu

DEPARTMENT OF ENGLISH

YA Government Degree College for Women

CHIRALA



COURSE OUTCOMES

2025-26

DEPARTMENT OF ENGLISH

COURSE OUTCOMES 2025-26

FIRST SEMESTER

Theory Credits: 4

4 hrs/week

SKILL BRIDGE-1: - LIFE SKILLS

Teaching and learning have undergone significant changes in recent years. The focus today is on helping students become good communicators, critical thinkers, and confident leaders who can work together to achieve results. The modern world needs graduates who not only possess knowledge but also skills — especially in communication, teamwork, problem-solving, and leadership.

It also gives special importance to activity-based teaching and learning, which encourages more student participation. In this method, students get more time to talk, and the teacher guides them as a facilitator.

More importantly, the book includes classroom activities that prepare learners in key language skills—speaking, listening, and pronunciation—making learning interactive, practical and enjoyable.

We hope this book, SKILL BRIDGE—1, will be a helpful companion for learners who wish to connect their knowledge with real-world

skills and prepare themselves for future success.

COURSE OUTCOMES 2025-26

SECOND SEMESTER

SKILL BRIDGE-2: - COMMUNICATE AND CONNECT

COURSE 2: ENGLISH BRIDGE-II

Theory Credits: 4

4 hrs/week

Learning Objectives (LOs):

- **Recognise and reflect on civil and respectful communication in social and professional settings.**
- **Understand dramatic narratives and short fiction to enhance reading and speaking skills.**
- **Apply basic grammar and vocabulary in structured communication.**
- **Practice effective written formats for workplace communication.**
- **Interpret visual data and convert it into written content using note-making and report writing.**

Course Outcomes (COs):

- **Demonstrate improved communication etiquette through readings on civility and motivation.**
- **Employ skimming, scanning, and note-making strategies in academic and workplace writing.**
- **Display awareness of societal values and professional conduct through literature.**
- **Draft structured texts like reports, agendas, and notices with clarity.**
- **Integrate vocabulary and grammar in writing and speaking activities effectively.**

SEMESTER-III

COURSE 3: ENGLISH BRIDGE-III: GLOBAL FUTURE

Theory Credits: 4

4hrs/week

Learning Objectives

- 1. To enhance students' ability to understand and appreciate poetry, prose, and drama.**
- 2. To develop effective writing, speaking, and interpersonal communication skills.**
- 3. To enable students to express themselves confidently in interviews and professional scenarios.**
- 4. To promote critical thinking, emotional intelligence, and self-awareness through soft skills.**

Course Outcomes

- 1. Students will be able to interpret and respond to literary texts.**
- 2. Students will demonstrate proficiency in writing formal and informal letters, CVs, and emails.**
- 3. Students will be capable of participating in interviews and group discussions.**
- 4. Students will reflect on personal and professional strengths through SWOC analysis and EI**

SEMESTER-I
COURSE 1: ENGLISH BRIDGE-I: LIFE SKILLS

Unit I

- Poem: Coromandel Fishers – Sarojini Naidu
- Short Story: The Night Train at Deoli – Ruskin Bond
- Parts of Speech

Unit II

- Short Story: The Lost Child – Mulk Raj Anand
- Prose: Letter to a Teacher – School of Barbiana
- Articles and Prepositions

Unit III

- Poem: Where the Mind is Without Fear – Rabindranath Tagore
- Speech: How Dare You – Greta Thunberg (Open Source)
- Question tags.

Unit IV

- Poem: Night of the Scorpion – Nissim Ezekiel
- One Act Play: Refund – Fritz Karinthy
- Tenses

Unit V

- Short Story: An Astrologer's Day – R. K. Narayan
- Phonetics: Basic Sounds and Word Stress

• Intonation and Homophones Suggested Classroom Activities (Unit-wise)

Unit I • Speaking activity: My village/town.

Unit II • Storytelling and letter writing.

Unit III • JAM and reading comprehension

Unit IV • Listening to TED Talks and dialogue writing

Unit V • Phonetics practice with minimal pairs, stress marking, and reading aloud.

- Read passages following stress and intonation

- Write stories based on pictures facilitated.

SEMESTER-II

Unit I

- Prose: "On Saying Please" – A.G. Gardiner
- Short Story: "Half a Rupee Worth" – R.K. Narayan
- Conversion of Words.

Unit II

- Poem: "If" – Rudyard Kipling
- Prose: "I Have a Dream" – Martin Luther King Jr.
- Skimming & Scanning

Unit III

- One-Act Play: "Never, Never Nest" – Cedric Mount
- Short Story: "The Gift of the Magi" – O. Henry
- Report Writing

Unit IV

- Short Story: "How I Taught My Grandmother to Read" – Sudha Murty
- Information Transfer: Pie Charts, tree diagram and flow chart.
- Note-making

Unit V

- Prose: "The Secret of Work" – Swami Vivekananda
- Notices, Agendas, and Minutes

• One-Word Substitutes Unit-wise Suggested Activities:

Unit I • Vocabulary games • Role-play

Unit II • Presentation on a dream job. • Group Discussion

Unit III • Debate on EMI • Report Writing college events

Unit IV • Presentation using ppt (charts/photos) • Preparing notes from a short lecture/podcast

Unit V • Drafting a Notice and Agenda for a student meeting • Vocabulary Quiz

Reference Books: • Fluency in English – Part II, Board of Editors, Orient BlackSwan •

Effective Technical Communication by M. Ashraf Rizvi (McGraw Hill)

YA Government Degree College for Women

S NO	NAME OF THE STUDENT	CLASS	SIGNATURE OF THE STUDENT
1.	P. Pavana Sriya	Bsc (computer science)	P. Pavana Sriya
2.	V. Keerthana	B.sc (computer science)	V. Keerthana.
3.	P. Parameswari	B.sc (Computer science)	P. Parameswari.
4.	P. Navya	B.sc (computer science)	P. Navya
5.	A. Lahari	B.sc (computer science)	A. Lahari
6.	CH. Nikhila	Bsc chemistry	CH. Nikhila.
7.	B. Baby Navya Sri	B.sc chemistry	B. Baby Navya Sri
8.	P. Dharani Teja Reddy	B.sc chemistry	P. Dharani Teja Reddy
9.	M. Anusha	B.sc chemistry	M. Anusha.
10.	G. Pavani	Bsc (computers)	G. Pavani
11.	A. Therissa	B.sc (computers)	A. Therissa.
12.	G. Ranuya	Bsc (computers)	G. Ranuya
13.	B. Lalitha	B.sc (computers)	B. Lalitha
14.	P. Naga Amrutha Varshini	B.sc (computers)	P. Varshini
15.	M. Padma	B.S.C (chemistry)	M. Padma
16.	A. Jyothi sri	B.sc (computer)	A. Jyothi
17.	M. Sravya	B.sc (computer)	M. Sravya
18.	S. Bhuvana	B.S.C chemistry	S. Bhuvana

YA Government Degree College for Women

S NO	NAME OF THE STUDENT	CLASS	SIGNATURE OF THE STUDENT
19	T. Aswitha	Bsc (computer science)	T. Aswitha.
20.	Sk. Gulshan.	B.S.C computer science.	Sk. Gulshan.
21.	B. Pravalika.	Bsc computer (science).	B. Pravalika.
22.	K. Sowjanya.	B.sc computer science.	K. Sowjanya.
23.	K. Ramya sri.	B.sc (com).	K. Ramya sri.
24.	D. Palejamma	B.S.C (com)	D. Palejamma
25	M. Vani	B.sc (com)	M. Vani
26.	N.V. Yasaswi	B.Sc(com)	N.V. Yasaswi.
27	M. Anvitha	B.sc (Botany)	M. Anvitha
28	P. Hyne	B.sc (Botany)	P. Hyne
29	A. Ratna Priya	B.sc (computer science).	A. Ratna Priya.
30.	R. Venkata Lakshimi Tejaswini	B.sc computer (science).	R.V.L. Tejaswini
31.	Brahmani .V	B.Sc (com)	Brahmani.V
32.	D. kiranmayi	B.Sc(com)	D. kiranmayi
33.	Ch. Janaki Devi	B.Sc (com)	Janaki Devi
34.	I. Eswari	B.Sc (com)	Eswari.
35.	J. Ratnam	B.sc (com)	J. Ratnam
36.	P. Sowjanya	B.Sc (com)	P. Sowjanya.

YA Government Degree College for Women

S NO	NAME OF THE STUDENT	CLASS	SIGNATURE OF THE STUDENT
1.	KATTA. CHANDRIKA	1 st B.com(com)	K. Chandrika
2.	GANAVARA PUNAMITHA	1 st B.com(com)	G. Namitha
3.	KANCHARLA. TEJASWINI	1 st B.com(com)	K. Tejaswini
4.	Singirimalla. Deepika	1 st B.com(com)	S. Deepika
5.	M. Harichandana	1 st B.com(com)	M. Harichandana
6.	Devarampati. Kavya	1 st B.com(com)	D. Kavya
7.	Gangula. Harika	1 st B.com(com)	G. Harika
8.	Manepalli. Sravanthi	1 st B.com(com)	M. Sravanthi
9.	Nampalli. Jabravi	1 st B.com(com)	N. Jabravi
10.	yericherla. Vijaya	1 st B.com(com)	Y. Vijaya
11.	SK. KOWSON	1 st B.com(com)	SK. KOWSON
12.	SK. Nazeema	1 st B.com(com)	SK. Nazeema
13.	G. Rahelamma	1 st B.com(com)	G. Rahelamma
14.	P. Sarvani	1 st B.com(com)	P. Sarvani
15.	Palikina. Bapamma	1 st B.com(com)	P. Bapamma
16.	Deta. Harini	1 st B.com(com)	Deta. Harini
17.	Tada. Smitli	1 st B.com(com)	Tada. Smitli
18.	devarapalli. Krupa	2 nd B.com(com)	D. Krupa

DEPARTMENT OF ENGLISH
YA Government Degree College for Women

CHIRALA



Department Activities

Programme specific outcomes

2025-26

Mentor

G. Ratna papa

YA Government Degree College for Women

S NO	NAME OF THE STUDENT	CLASS	SIGNATURE OF THE STUDENT
19.	G. vyshnavi	B.Com(Comp)	G. vyshnavi
20.	K. sireesha	B.Com(Com)	K. Sireesha
21.	T. Hasini	"	T. Hasini
22.	P. Swetha kamala	"	P. Swetha kamala
23.	K. Swetha	"	K. Swetha.
24.	M. poojitha	"	M. poojitha
25.	K. Divyasri	"	K. Divyasri
26.	P. Bala Govardhini.	"	P. Bala Govardhini.
27.	G. vijaya durga	"	G. vijaya durga
28.	G. Kenu venkata sri sai	"	G. Kenu.
29.	P. Pusiltha	"	P. Pusiltha
30.	M. Indu	I.B-co(Comp)	M. Indu
31.	J. Lavanya	P.P(Com)	J. Lavanya
32.	Y. yasha yashoda	1 st B(Com)	Y. yashoda
33.	K. Jyothika	1 st B. (Com)	K. Jyothika
34.	J. krishnaveni	"	J. krishnaveni
35.	V. Anusha	"	V. Anusha.



PRINCIPAL

Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P.)

Outcomes of JAM Session

1. **Improved Communication Skills**
Participants developed confidence in speaking clearly and effectively within a limited time.
2. **Enhanced Spontaneity and Thinking Ability**
Students learned to think quickly and organize their thoughts on the spot.
3. **Better Time Management**
The one-minute format helped participants practice expressing ideas concisely within a fixed time.
4. **Increased Self-Confidence**
Regular participation reduced stage fear and improved public speaking confidence.
5. **Development of Listening Skills**
Participants became more attentive listeners to understand and respond appropriately.
6. **Vocabulary and Language Enrichment**
Exposure to different topics helped improve vocabulary and language fluency.
7. **Encouragement of Creativity**
Students expressed original ideas and viewpoints on various topics.
8. **Critical Thinking Skills**
Participants analyzed topics quickly and presented logical viewpoints.
9. **Overall Personality Development**
the session contributed to grooming students' communication, confidence, and presentation skills.

Outcomes of Clean & Green Programme

1. **Improved Environmental Awareness**
Students and staff developed a better understanding of cleanliness, hygiene, and environmental protection.
2. **Cleaner Campus Environment**
The programme resulted in a neat, plastic-free, and well-maintained campus.
3. **Promotion of Eco-friendly Practices**
Participants adopted habits such as reducing plastic usage, proper waste disposal, and recycling.
4. **Increased Green Cover**
Plantation activities helped in enhancing greenery and improving air quality.
5. **Sense of Responsibility**
Students developed a sense of social responsibility towards maintaining cleanliness in their surroundings.
6. **Community Participation**
The programme encouraged teamwork and active involvement of students, staff, and local community.
7. **Health and Hygiene Improvement**
Clean surroundings contributed to better health and reduced risk of diseases.
8. **Sustainable Practices Initiated**
Initiatives like waste segregation, composting, and water conservation were introduced.
9. **Positive Behavioral Change**
Participants showed long-term commitment to maintaining cleanliness and protecting the environment.
10. **Institutional Image Enhancement**
The programme improved the reputation of the institution as an eco-conscious and responsible organization.

Outcomes of Classroom Seminars

1. **Improved Communication Skills**
Students develop confidence in public speaking and learn to express ideas clearly and effectively.
2. **Enhanced Subject Knowledge**
Seminars encourage in-depth study, leading to better understanding of the topic beyond textbooks.
3. **Development of Presentation Skills**
Students learn how to organize content, use visual aids, and present information in a structured manner.
4. **Critical Thinking and Analysis**
Students analyze topics, evaluate information, and form their own viewpoints.
5. **Research Skills**
Seminars promote independent learning through data collection, referencing, and content preparation.
6. **Confidence Building**
Regular presentations reduce stage fear and build self-confidence.
7. **Interactive Learning Environment**
Encourages discussions, questions, and peer learning among students.
8. **Time Management Skills**
Students learn to plan, prepare, and present within a given time frame.
9. **Teamwork and Collaboration** (*if group seminars*)
Students learn to work in teams, share responsibilities, and coordinate effectively.
10. **Use of ICT Tools**
Students gain exposure to tools like PowerPoint, projectors, and digital resources.
11. **Improved Listening Skills**
Students learn to actively listen, understand, and respond to peers' presentations.
12. **Academic Confidence and Motivation**
Encourages active participation in academics and builds interest in learning.

Outcomes of Group Discussion

1. **Improved Communication Skills**
Participants develop the ability to express ideas clearly and confidently.
2. **Enhanced Critical Thinking**
Students learn to analyze topics, evaluate different viewpoints, and form logical conclusions.
3. **Better Listening Skills**
Group discussion encourages attentive listening and respect for others' opinions.
4. **Teamwork and Collaboration**
Participants learn to work collectively, share ideas, and build on others' contributions.
5. **Leadership Qualities**
Students get opportunities to lead discussions, guide peers, and take initiative.
6. **Increased Confidence**
Regular participation helps reduce hesitation and builds self-confidence in speaking.
7. **Knowledge Enhancement**
Exposure to diverse perspectives broadens understanding of the subject.
8. **Decision-Making Ability**
Group discussions help in reaching conclusions through collective reasoning.
9. **Problem-Solving Skills**
Participants learn to approach and resolve issues collaboratively.
10. **Respect for Diverse Opinions**
Encourages tolerance and appreciation of different viewpoints.

Outcomes of Peer Learning

1. **Improved Understanding of Concepts**
Students gain a deeper understanding of subjects by explaining and discussing topics with peers.
2. **Enhanced Communication Skills**
Learners develop better speaking, listening, and presentation skills through interaction.
3. **Active Participation**
Encourages students to actively engage in the learning process rather than passive listening.
4. **Development of Critical Thinking**
Peer discussions promote questioning, reasoning, and analytical thinking.
5. **Increased Confidence**
Students become more confident in expressing ideas and clarifying doubts.
6. **Collaborative Learning Skills**
Promotes teamwork, cooperation, and mutual respect among students.
7. **Better Retention of Knowledge**
Learning through teaching peers helps in long-term retention of information.
8. **Identification of Learning Gaps**
Students can identify their strengths and weaknesses through peer interaction.
9. **Positive Learning Environment**
creates a supportive and comfortable atmosphere for learning.
10. **Improved Academic Performance**
Overall performance improves due to shared knowledge and group support.

YA GOVERNMENT DEGREE COLLEGE FOR WOMEN CHIRALA
DEPARTMENT OF HINDI
GENERAL HINDI COURSE OUTCOMES 2025 - 2026

पाठ्यक्रम के परिणाम: COURSE OUTCOMES:

- सामान्य हिन्दी/हिन्दी साहित्य।
- हिन्दी व्याकरण एवं साहित्य का बुनियादी ज्ञान।
- प्रभावी हिन्दी संचार कौशल का विकास।
- छात्रों की भाषाई क्षमता विकसित करके उनकी रोजगार क्षमता को बढ़ाया गया

कार्यक्रम के परिणाम: Program Outcomes:

- हिन्दी भाषा एवं साहित्य की उत्पत्ति को समझना।
- हिन्दी साहित्य की विभिन्न विधाओं को समझना।
- समृद्ध हिन्दी शब्दावली।
- हिन्दी साहित्य के पीछे के दर्शन को समझें।
- अतीत से वर्तमान तक हिन्दी साहित्य का मूल्यांकन करें और इसे समाज को समझने के लेख के रूप में उपयोग करें।
- अपनी राष्ट्रभाषा का ज्ञान दूसरों तक फैलाएं।

BA, BCOM, BSC First Year- Second Language Hindi
Semester-I हिन्दी गद्य साहित्य -1 | गद्य साहित्य, कथा, व्याकरण, पत्र लेखन, कार्यालयीन शब्दावली

लक्ष्य:

- * विद्यार्थियों को गद्य की विविध विधाओं से परिचित करवाना।
- * हिन्दी भाषा के विशिष्ट साहित्यकारों का परिचय उनकी रचनाओं की विशिष्टता का ज्ञान प्राप्त कर पाना।
- * हिन्दी साहित्य के संक्षिप्त इतिहास से परिचित करवाना।
- * हिन्दी व्याकरण की सभी पहलुओं पर विद्यार्थियों को विशद रूप अध्ययन कराना, क्योंकि व्याकरण ही भाषा की रीढ़ होती है।
- * विद्यार्थियों को पत्र लेखन के आवश्यक नियमों से अवगत कराना, शिष्ट भाषा का प्रयोग एवं प्रभावपूर्ण लेखन विधि से परिचित करवाना।

परिणाम: पाठ्यक्रम के सफल समापन के उपरांत विद्यार्थी निम्न विषयों में सक्षम होंगे।

- * निबंध, रेखाचित्र, कहानी जैसी गद्य की विभिन्न विधाओं को समझ पाना एवं विश्लेषण कर पाना।
- * सच्चे मित्र के गुणों से अवगत हो पाना, जो की स्नातक स्तर के विद्यार्थियों के लिए अति आवश्यक है।
- * पठित रचनाओं में दर्शित सामाजिक, ऐतिहासिक, सांस्कृतिक आदि संदर्भों का मूल्यांकन कर पाना।
- * धार्मिक सहिष्णुता, देश प्रेम आदि उत्तम भावनाओं को जागृत कर पाना।
- * हिन्दी साहित्य इतिहास के संक्षिप्त अध्ययन से विविध काल एवं तत्कालीन परिस्थितियों से अवगत होना।
- * व्याकरणिक इकाइयों की समझ एवं प्रभावपूर्ण पत्र लेखन का ज्ञान अर्जित कर सकना।

BA, BCOM, BSC First Year- Second Language Hindi

Semester-II हिन्दी पद्य साहित्य -2 | पद्य साहित्य, हिन्दी साहित्य इतिहास, व्याकरण, अनुवाद - कार्यालयीन शब्दावली, प्रयोजनमूलक हिन्दी

लक्ष्य:

- * कबीर और तुलसी के दोहों में व्यक्त सामाजिक संदेश जो आज के समय में भी प्रासंगिक है, विद्यार्थियों को उनसे परिचित कराना। सूत्र के पदों की लयात्मक से परिचित हो पाना।
- * आधुनिक काल के प्रमुख हिन्दी कवियों का योगदान एवं विभिन्न साहित्यिक परंपराओं में उनके योगदान का आकलन कर सकेंगे।
- * निबंध के माध्यम से विद्यार्थियों के सामाजिक ज्ञान की वृद्धि होना।
- * प्रयोजनमूलक हिन्दी के अंतर्गत विद्यार्थी विभिन्न सरकारी पत्रों से अवगत हो पाना।
- * अनुवाद और संक्षेपण ऐसी कलाएँ हैं, जिनके अभ्यास से विद्यार्थी भाषाओं पर निपुणता हासिल कर सकेंगे।

परिणाम: द्वितीय सत्र के सफल समापन के उपरांत विद्यार्थी निम्न विषयों में सक्षम होंगे।

- * प्राचीन कविता के अध्ययन से विद्यार्थियों में सामाजिक चेतना जागृत होगी, काव्यगत विशेषताओं से परिचित होंगे।
- * आधुनिक काल की विविध प्रक्रियाओं का आकलन तथा विश्लेषण।
- * विभिन्न निबंधों के माध्यम से विद्यार्थियों के सामाजिक ज्ञान की श्रीवृद्धि।
- * प्रयोजनमूलक हिन्दी का ज्ञान प्राप्त कर विद्यार्थी सरकारी तथा गैर सरकारी संगठनों में अनुवादक पद के लिए अपने आप को तैयार कर पायेंगे।
- * अनुवाद अभ्यास जो साहित्यिक एवं अनुपयुक्त माध्यम से करवाया जाता है, यह विद्यार्थियों के लिए उपयोगी सिद्ध होगा।
- * संक्षेपण कला के अभ्यास से भाषाई निपुणता प्राप्त कर सकते हैं।

Sul

M. R. R. R.
PRINCIPAL

Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P)

DEPARTMENT OF HINDI
DECLARATION BY STUDENTS ABOUT P.O./P.S.O./C.O.

We were instructed about the Programme Outcomes, Programme Specific Outcomes and Course Outcomes of BSC, BCOM, BA Groups, HINDI GADYA SAHITYA – I & HINDI PADYA SAHITYA – II General Hindi as Second Language are explained to me. I have joined this course after knowing / getting awareness on the learning outcomes of this course.

S. No.	Name of the Student	Class/ Group	Year of Joining	Mobile No.	Signature
1.	K. Gayathri	BSc(Zoo)	2025	7569711210	K. Gayathri
2.	G. Nirmala Das	BSC(Zoo)	2025	8680837967	G. Nirmaladas
3.	S. Meghana	BCC(Zoo)	2025	6309945960	S. Meghana
4.	P. Rajakwardhini	B.Sc(Bot)	2025	9014453861	P. Rajakwardhini
5.	N.V. Yasodha	B.Sc(CS)	2025	6308647895	N.V. Yasodha
6.	K. Sowjanya	B.Sc(CS)	2025	7729097366	K. Sowjanya
7.	D. Kiranmai	B.SCCCS)	2025	6301257790	D. Kiranmai
8.	Ch. Poojamma	B.Sc(CS)	2025	6372322683	Ch. Poojamma
9.	P. Parameswari	B.Sc(CS)	2025	9008840628	P. Parameswari
10.	V. Keerthana	B.Sc(CS)	2025	8790587631	V. Keerthana
11.	P. Sowjanya	B.Sc(CS)	2025	7032796947	Sowjanya P
12.	G. Kusuma	B.Sc(CHEM)	2025	8186094048	G. Kusuma
13.	SK. Shaheen Tabassum	B.SCCHE)	2025	9493555349	SK. Shaheen Tabassum
14.	SK. Kaushma	B.SCCHE)	2025	8919166972	SK. Kaushma
15.	P. Moujika	B.Com(CA)	2025	9063069556	P. Moujika
16.	M. Harichandana	B.COM(CA)	2025	8106014742	M. Harichandana
17.	SK. Nazeema	B.COM(CA)	2025	7816051301	SK. Nazeema

Suee

(Signature)
PRINCIPAL

Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P)



NOTICE

The following are the learning outcomes of three year B.A Programme ,Programme Specific outcome with HEP group and History course. On successful completion of the programme students are a

PROGRAMME OUTCOMES

- PO1. Critical Thinking:** To analyse and predict socio political phenomena based on the study of existing socio economic determinants and past experiences by various tools of investigation like empirical research method, survey research and data analysis .To be acquainted with the social ,economical, historical, geographical ,political, ideological and philosophical tradition and thinking,
- PO2. Effective Citizenship:** It provides the base to the responsible Citizen. It inculcates among students a basic understanding of the rights and duties of citizenship. The students will be ignited enough to think and act over for the solution of various issues prevailed in human life to make this world better than ever.
- PO3. Communication:** Establishment of linkages between academics and civil society at large so as to successfully address socioeconomic problems.
- PO4: Individual and team work :** Function effectively as an individual as a member or leader in different social settings.
- PO5. Ethics:** The programme enables the students to acquire knowledge with human values framing the base to deal with various problems in life with courage and humanity. The students acquire knowledge in field of social sciences, literature and humanities which make them sensitive and sensible enough
- PO6. Career Upliftment :** It empowers the graduates to appear for various competitive examinations or choose the post graduate programme of their choice.

B.A (HEP) Programme Specific Outcomes:

- . Students will be able to understand the fundamental theories, concepts in areas of History , Economics, Political Science .
- .Appraise the significance of History , Economics, Political Science in day to day life.
- .Students will analyse the Indian constitutional provisions ,major Legislations and reforms
- .Students will understand the nature and developments in national and international politics
- .Students will be able to gather knowledge about the heritage and tradition of their own country and others
- .Students will be able to understand and analyse the micro and macro economic concepts and theories.
- .Students will be able to analyse the macro economic problems like poverty, unemployment ,Inflation ,population explosion , crisis in Agriculture and suggest remedies



NOTICE

The following are the learning outcomes of three year B.A Programme , Programme Specific outcome with HEP group and History course. On successful completion of the programme students are a

PROGRAMME OUTCOMES

- PO1. Critical Thinking:** To analyse and predict socio political phenomena based on the study of existing socio economic determinants and past experiences by various tools of investigation like empirical research method, survey research and data analysis .To be acquainted with the social ,economical, historical, geographical ,political, ideological and philosophical tradition and thinking,
- PO2. Effective Citizenship:** It provides the base to the responsible Citizen. It inculcates among students a basic understanding of the rights and duties of citizenship. The students will be ignited enough to think and act over for the solution of various issues prevailed in human life to make this world better than ever.
- PO3. Communication:** Establishment of linkages between academics and civil society at large so as to successfully address socioeconomic problems.
- PO4: Individual and team work :** Function effectively as an individual as a member or leader in different social settings.
- PO5. Ethics:** The programme enables the students to acquire knowledge with human values framing the base to deal with various problems in life with courage and humanity. The students acquire knowledge in field of social sciences, literature and humanities which make them sensitive and sensible enough
- PO6. Career Upliftment :** It empowers the graduates to appear for various competitive examinations or choose the post graduate programme of their choice.

B.A (HEP) Programme Specific Outcomes:

- . Students will be able to understand the fundamental theories, concepts in areas of History , Economics, Political Science .
- .Appraise the significance of History , Economics, Political Science in day to day life.
- .Students will analyse the Indian constitutional provisions ,major Legislations and reforms
- .Students will understand the nature and developments in national and international politics
- .Students will be able to gather knowledge about the heritage and tradition of their own country and others
- .Students will be able to understand and analyse the micro and macro economic concepts and theories.
- .Students will be able to analyse the macro economic problems like poverty, unemployment ,Inflation ,population explosion , crisis in Agriculture and suggest remedies

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

Learning 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 analyze the Jain, Buddhist and Vedic faiths
- Increase the awareness and appreciation of Transition from Territorial States to Emergence of Empires
- Analyze 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

Course 2: MEDIEVAL INDIAN HISTORY & CULTURE (1206 A.D to 1764 A.D)

Learning 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
- Analyze the emergence of composite culture in Indian
- Visualize where places are in relation to one another through map pointing

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

Learning Outcomes:

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

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

Learning Outcomes:

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

- Interpret social and political and cultural transformation from medieval to modern Andhra

- Relate key historical developments during medieval period occurring in coastal Andhra and Telangana regions and analyze socio - political and economic changes under QutbShahi rulers
- 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 policies 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 importance of peace in everyday 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

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

Learning 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 Romanticism

- 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



Head
Dept of History
Y.A.Govt.College for Women
Chirala-523155,AP.

INCHARGE
Dept. of HISTORY
Y.A. Govt. Degree College for Women
CHIRALA-523 155

HISTORY MINOR LEARNING OUTCOMES

1. Science and Human Past

Learning Outcomes:

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

- Students will understand the meaning of history and its relation to other social sciences and historical writing.
- Learn about the origin and evolution of human culture.
- Know how humans transformed from the Stone Age to the Iron Age.
- Understand the greatness of the first Indian civilization in the Indus Valley.
- Learn about the richness of Vedic culture.

2. Medieval Indian Society: (Polity, Economy, and Culture-1206 CE-1707 CE)

Learning Outcomes:

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

- Know the Delhi Sultanate Rule and its Conditions.
- The Administrative Policies and Reforms of the Delhi Sultanate Kings
- Understand the nature of mediaeval Indian states.
- Get knowledge of the emergence of composite culture in India.
- Learn about the Bhakti Movement and the evolution of composite culture.
- Know the Marathas and Sikh political history.

3. Indian National Movement (1857-1947)

Learning Outcomes:

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

- Learn the reforms of British viceroys, i.e., Lord Lytton, Rippon, and Curzon.
- Study the important factors for the growth of Indian nationalism.
- Understand the young generation's enthusiasm to obtain independence at an early age.
- Visualise the idealistic policies of Mahatma Ghandhi.
- Paved the way for obtaining independence

4. Social and Cultural History of Andhra Pradesh (up to 1956 CE)

Learning Outcomes:

- Students after successful completion of the course will be able to
- Learn the broad social and cultural history of Andhra Pradesh, from pre-historic to the formation of Andhra Pradesh.
- Visualise the various major and minor dynasties that ruled Andhradesa between the 11th and 16th centuries.
- Know the advent of Europeans in Andhra and their trading settlement.
- Learn about the socio-cultural awakening of Andhra during the 19th and early 20thcenturies.

➤ Examined the growth of the nationalist movement in Andhra Pradesh from 1885 to 1947.

➤ Learn about the incidents that led to the formation of the first linguistic state in India.

5. Tourism and Hospitality Services

Learning Outcomes:

Students after successful completion of the course will be able to

- Know the basics of tourism and hospitality services.
- Inculcate interpersonal skills in the students.
- Develop the ability to multitask and manage crises.
- Understands the spirit of teamwork and different types of services
- Acknowledge the importance of guest service and satisfaction.
- Develop their skills, leadership abilities, and entrepreneurial spirit.

6. Journalism and Editing Techniques

Learning Outcomes:

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

- Know the Significance of Report Writing

- Understand the Principles and Techniques of Reporting
- Know the types of news sources and qualities of a reporter.
- Identity: the Role of Sub Editor and Editor.
- Critically analyse the challenges in reporting and editing techniques.




INCHARGE
Dept. of HISTORY
Y.A. Govt. Degree College for Women
CHIRALA-523 155

DECLARATION BY STUDENT/S ABOUT P. Os /P.S. Os/C. OS

This is to certify that the programme outcome, programme specific out comes and course outcomes of BA programme with HEP group, history as one of the core courses are explained to me. I have joined this course after knowing/ getting awareness on the learning outcomes of the course only.

S NO	YEAR OF JOINING 1YR DEG	ROLL NO	STUDENT NAME	MOBILE NO	SIGNATURE
1	2022-2023	01	A. Sai Lakshmi	799386389	A. Sai lakshmi
2	2022-2023	03	G. Lavanya	7227454371	G. Lavanya.
3	2022-2023	04	G. Swarupa	7815969169	G. Swarupa
4	2022-2023	06	K. Indira	7754926216	G. Swarupa
5	2022-2023	07	K. Pavani	6304001479	K. Pavani
6	2022-2023	08	M. Sai Rupa	9030585063	M. Sai Rupa
7	2022-2023	09	M. Anitha	9063366291	M. Anitha
8	2022-2023	10	N. Mounika	9849937583	N. MOUNIKA
9	2022-2023	11	S.D. Rizwana	9398814348	SA. Rizwana
10	2022-2023	12	T. Sravani	9951104058	T. Sravani



INCHARGE
Dept. of HISTORY
Y.A. Govt. Degree College for Women
CHIRALA-520 155


Principal
Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P.)

DECLARATION BY STUDENT/S ABOUT P. Os /P.S. Os/C. OS

This is to certify that the programme outcome, programme specific out comes and course outcomes of BA programme with HEP group, history as one of the core courses are explained to me. I have joined this course after knowing/ getting awareness on the learning outcomes of the course only.

S NO	YEAR OF JOINING 1YR DEG	ROLL NO	STUDENT NAME	MOBILE NO	SIGNATURE
1	2023-2024	01	A. Kavya Varshitha	8374682732	A. Kavya Varshitha
2	2023-2024	02	G. Maggi	9569665115	
3	2023-2024	03	K. Avanthi Devi	7207165832	K. Avanthi Devi
4	2023-2024	04	K. Kalyani	9014528228	K. Kalyani
5	2023-2024	05	K. Tulasi Lalshini	9391453607	K. Tulasi
6	2023-2024	06	M. Bhavya Lakshmi	8688563386	M. Bhavya
7	2023-2024	07	M. Papa	897048167	
8	2023-2024	08	M. Shaheena	6300281316	
9	2023-2024	09	P. Mounila	9133419902	
10		10	P. Valsavi	8885396606	


INCHARGE
Dept. of HISTORY
Y.A. Govt. Degree College for Women
CHIRALA-525


Principal
Y.A. Govt. College for Women,
CHIRALA, Bapatla Dist., (A.P.)

DECLARATION BY STUDENT/S ABOUT P.Os/P.S.Os/C.Os

This is to certify that the Programme Outcomes, Programme Specific Out comes and Course Outcomes of BA Programme with HEP Group, History as one of the core courses are explained to me. I have joined this course after knowing /getting awareness on the learning outcomes of this course only.

S NO	CLASS & GROUP	YEAR OF JOIN 1yr Deg	ROLL NO	STUDENT NAME	MOBILE NO	SIGNATURE
1	BA, HEP	2021	01	MYLIPILLI SNEHA LATHA	9949486347	M. Snehalatha
2	BA, HEP	2021	02	DEVENA LAKSHMI THIRUPATHAMMA	9392833678	D. Lakshmi Thirupathamma
3	BA, HEP	2021	03	MALLAVARAPU TEJASWARI	9704473721	M. Tejaswari
4	BA, HEP	2021	04	MALLIKA GAYATHRI	9704998397	Pi. Gayathri
5	BA, HEP	2021	05	DEVARAKONDA TRIVENI	8555880739	D. Triveni
6	BA, HEP	2021	06	PRATIPATI RAMYASRI	6300553289	P. Ranya Sri
7	BA, HEP	2021	07	KATTA LIDIYA	7569202662	K. Lidija
8	BA, HEP	2021	08	BUDAPANA ARTHI	7207063715	B. Arthi
9	BA, HEP	2021	09	KURMAPU VASUNDHARA	7207870188	K. Vasundhara
10	BA, HEP	2021	10	PALLEPOTHU NIKITHA	6281665323	P. Nikhita
11	BA, HEP	2021	11	SRIRAMULA SUREKHA	7207810947	S. Surekha
12	BA, HEP	2021	12	PAKALA JAYANTHI 7981339376	6300795385	P. Jayanthi
13	BA, HEP	2021	13	SHAIK BHASHIRUN	7995945951	Sk. Bhashirun
14	BA, HEP	2021	14	KANDULA GLORY	7396910474	K. Glory
15	BA, HEP	2021	15	BATTU SRIVANI	7396079909	B. Srivani
16	BA, HEP	2021	16	SANKARAPU VARISHMA	9390847013	S. Varishma
17	BA, HEP	2021	17	KAVURI TIRUPATAMMA	7780422425	—
18	BA, HEP	2021	18	NUNE MADHAVI	7330867494	N. Madhavi
19	BA, HEP	2021	19	NANGALAM UMA MAHESWARI	7386495683	N. Umamaheswari
20	BA, HEP	2021	20	TAMMALURI SIRISHA RANI	6303775525	T. Sirisha Rani
21	BA, HEP	2021	21	ADALA ANITHA	7036343240	A. Anitha
22	BA, HEP	2021	22	PALAPARTHI BHANU PRIYA	7675851707	P. Bhanu Priya
23	BA, HEP	2021	23	JERRI MAHA LAKSHMI	8978966250	—
24	BA, HEP	2021	24	SHAIK RESHMA	9963056752	Sk. Reshma
25	BA, HEP	2021	25	DUVVURI KEERTHANA	9703196856	D. Keerthana
26	BA, HEP	2021	26	MEDIKONDA RATNA KUMARI	9951055302	M. Ratna Kumari
27	BA, HEP	2021	27	NEELAM VARSHA	7093406405	N. Varsha
28	BA, HEP	2021	28	KASUKURTHI LAVANYA	9959379749	K. Lavanya
29	BA, HEP	2021	29	KARANKI MOUNICA	9100495807	K. Manika
30	BA, HEP	2021	30	PADARTHI HAVEELA	8465067554	P. Haveela
31	BA, HEP	2021	31	MEKALA SOWMYA	9030832412	—
32	BA, HEP	2021	32	DEVARA PALLI RATNA KUMARI	9492276321	—
33	BA, HEP	2021	33	BOGIREDDY BINDU SRI	6300963698	B. Bindu Sri

INCHARGE
Dept. of HISTORY
Y.A. Govt. Degree College for Women
CHIRALA-523 155


 Principal
 Y.A. Govt. Degree College for Women
 CHIRALA-523155, Prakasam DL (A.P.)

DECLARATION BY STUDENT/S ABOUT P.Os/P.S.Os/C.Os

This is to certify that the Programme Outcomes, Programme Specific Out comes and Course Outcomes of BA Programme with HEP Group, History as one of the core courses are explained to me. I have joined this course after knowing /getting awareness on the learning outcomes of this course only.

S NO	CLASS & GROUP	YEAR OF JOIN 1yr Deg	ROLL NO	STUDENT NAME	MOBILE NO	SIGNATURE
1	BA ,HEP	2020	01	A.ANUSHA	8790469028	A. Anusha
2	BA ,HEP	2020	02	A.HARITHA 8019831242		A. Haritha
3	BA ,HEP	2020	—	A.SRAVANI	—	—
4	BA ,HEP	2020	06	B.SUHASINI	7995845621	B. Suhasini
5	BA ,HEP	2020	—	B.YEMIMA	—	—
6	BA ,HEP	2020	08	D.YESU KUMARI	6303855016	D. Yesu Kumari
7	BA ,HEP	2020	09	D.JYOTHSNA	9381740373	D. Jyothsna
8	BA ,HEP	2020	10	G.PAVITRA	7036291475	G. Pavitra
9	BA ,HEP	2020	11	G.KRUPA	9100718418	G. Krupa
10	BA ,HEP	2020	—	J.ANITHA	8340042533	J. Anitha
11	BA ,HEP	2020	—	K.GEETHA	8008139082	K. Geetha
12	BA ,HEP	2020	16	K.DURGA BHAVANI	9398291420	K. DURGA BHAVANI
13	BA ,HEP	2020	17	K.JESSY	7396807907	K. JESSY
14	BA ,HEP	2020	—	K.SUSHIMITHA	8074774463	—
15	BA ,HEP	2020	20	K.KAVYA	9963189873	K. Kavya
16	BA ,HEP	2020	—	K.PRASANTHI	7093299821	K. Prashanthi
17	BA ,HEP	2020	22	M.PRRETHI	6301422699	M. Preethi
18	BA ,HEP	2020	—	M.AUSHA	7075248840	M. Anusha
19	BA ,HEP	2020	24	N.SUKANYA	9398818736	N. Sukanika
20	BA ,HEP	2020	—	N.NASEEMA	7659032747	N. Naseema
21	BA ,HEP	2020	27	P.SHAFIYA	8106908696	P. Shafiya
22	BA ,HEP	2020	28	P.HARITHA	8333065587	P. Haritha
23	BA ,HEP	2020	—	P.RADHIKA	9063453463	P. Radhika
24	BA ,HEP	2020	31	P.SAILAJA	9581386696	P. Sailaja
25	BA ,HEP	2020	32	P.SANDYA	8919297390	P. Sandhya
26	BA ,HEP	2020	—	R.SREELEKHA	8125248378	—
27	BA ,HEP	2020	35	R.KOKILA	6309591976	R. Kokila
28	BA ,HEP	2020	36	SD.SANJU	6309493023	SD. Sanju
29	BA ,HEP	2020	37	S.HEMIMA	9676971428	S. Hemima
30	BA ,HEP	2020	39	SK.SUFIYA	9603017486	SK. Sufiya
31	BA ,HEP	2020	41	SK.ASIFA	9603588549	SK. Asifa
32	BA ,HEP	2020	40	SK.AYISHA TABUSAM	9666247128	SK. Ayisha Tabusam
33	BA ,HEP	2020	—	V.JYOTHI	8978862811	—
34	BA ,HEP	2020	43	V.PRAGNA	9948745367	V. Pragna
35	BA ,HEP	2020	—	V.MADHULATHA	9573484913	V. Madhulatha
36	BA ,HEP	2020	45	V.PADMA	7993974533	V. Padma
37	BA ,HEP	2020	46	G.SIRISHA	6304381212	G. Sirisha
38	BA ,HEP	2020	47	G V SOWJANYA	9110733364	G.V. Sowjanya
39	BA ,HEP	2020	—	CH.SWARUPA RANI	9951156656	CH. Swarupa Rani
40	BA ,HEP	2020	49	JVM MOUNICA	8688174561	J.V.M. Mounika
41	BA ,HEP	2020	50	N SUSHMITHA	8074774463	N. Sushmita
42	BA ,HEP	2020	52	V.PAVANI	7286984187	V. Pavani

43	BA ,HEP	2020	53	K.AMULYA	8374153773	K. Amulya.
44	BA ,HEP	2020				
45	BA ,HEP	2020				
46	BA ,HEP	2020				
47	BA ,HEP	2020				
48	BA ,HEP	2020				
49	BA ,HEP	2020				
50	BA ,HEP	2020				

INCHARGE
Dept. of HISTORY
Y.A. Govt. Degree College for Women
CHIRALA-523 155

Principal
Y.A. Govt. Degree College for Women
CHIRALA-523155, Prakasam DL (A.P.)

Y.GOV'T DEGREE COLLEGE FOR WOMEN ;; CHIRALA

DEPARTMENT OF MATHEMATICS

2025-26

PROGRAMME OUTCOMES :

- Demonstrate the ability to apply analytical skills to model and to solve
- Demonstrate the ability to analyze the data and draw appropriate statistical conclusions
- Demonstrate the ability to effectively a variety of teaching techniques and class room strategies to positively influence student learning
- Programmes in mathematics that enable students to define mathematical concepts, calculate quantities, estimate solutions
- Solve problems represent mathematical information, develop models and communicate mathematical thoughts

PROGRAMME SPECIFIC OUTCOMES :

- Students will be able to develop mathematical skills and literary required by their chosen field of study and explore new areas of reearch.
- Mathematics classes possess appropriate understanding to develop their Analytical and Logical Skills.
- Students will apply their skillsto solve problems.

COURSE OUTCOMES :

SEMESTER-III

COURSE 5: GROUP THEORY

Course Outcomes

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

1. acquire the basic knowledge and structure of groups
2. get the significance of the notation of a subgroup and cosets.
3. understand the concept of normal subgroups and properties of normal subgroup
4. study the homomorphisms and isomorphisms with applications.
5. understand the properties of permutation and cyclic groups

SEMESTER-IV

COURSE 3: RING THEORY

Course Outcomes

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

1. acquire the basic knowledge of rings, fields and integral domains
2. get the knowledge of subrings and ideals
3. construct composition tables for finite quotient rings
4. study the homomorphisms and isomorphisms with applications.
5. get the idea of division algorithm of polynomials over a field.

SEMESTER-IV

COURSE 4: INTRODUCTION TO REAL ANALYSIS

Course Outcomes

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

1. get clear idea about the real numbers and real valued functions.
2. obtain the skills of analysing the Concepts and applying appropriate methods for testing convergence of a sequence/ series.
3. test the continuity and differentiability and Riemann integration of a function.
4. know the geometrical interpretation of mean value theorems.
5. know about the fundamental theorem of integral calculus

Course Outcomes

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

1. acquire the basic knowledge of rings, fields and integral domains
2. get the knowledge of subrings and ideals
3. construct composition tables for finite quotient rings
4. study the homomorphisms and isomorphisms with applications.
5. get the idea of division algorithm of polynomials over

SEMESTER- V

COURSE 12: LINEAR ALGEBRA

Course Outcomes

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

1. understand the concepts of vector spaces, subspaces understand the concepts of basis, dimension and their properties understand the concept of linear transformation and its properties

4. apply Cayley- Hamilton theorem to problems for finding the inverse of a matrix and higher powers of matrices without using routine methods

5. learn the properties of inner product spaces and determine orthogonality in inner product spaces

SEMESTER-V

COURSE 6: NUMERICAL METHODS

Course Outcomes

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

1. difference between the operators and the relation between them „E [?]
2. know about the Newton – Gregory Forward and backward interpolation
3. know the Central Difference operators and relation between them „[?] [?]
4. solve Algebraic and Transcendental equations

SEMESTER-V

COURSE 6: VECTOR CALCULUS

Course Outcomes

Students after successful completion of the course will be able to

- 1. Learn multiple integrals as a natural extension of definite integral to a function of two variables in the case of double integral/three variables in the case of triple integral.**
- 2. Learn applications in terms of finding surface area by double integral and volume by triple integral**
- 3. Determine the gradient, divergence and curl of a vector and vector identities.**

4. Evaluate line, surface and volume integrals.

5. understand relation between surface and volume integrals (Gauss divergence theorem), relation between line integral and volume integral (Green's theorem), relation between

Line and surface integral (Stokes theorem)

Y.A GOVERNMENT DEGREE COLLEGE FOR WOMEN'S

CHIRALA



DEPARTMENT OF MICROBIOLOGY

PROGRAMME OUTCOMES

2025 - 2026

K. ROHINI YADAV

LECTURER IN MICROBIOLOGY



Edit with WPS Office

KNOWLEDGE BASE :-

Graduation will demonstrate a comprehensive understanding of the fundamental principles of Microbiology, including Microbial cell structure, physiology, genetics and ecology.

LABORATORY SKILLS :-

Graduation will be proficient in standard microbiological laboratory techniques, including Aseptic techniques, Microbial Isolation, identification and molecular methods and be able to Interpret results accurately.



CRITICAL THINKING :-

Graduates will be able to critically analyse and interpret scientific literature related to Microbiology, applying their knowledge to solve complex problems in the field.

ETHICAL CONSIDERATIONS :-

Graduates will understand and adhere to ethical principles and safety guidelines in the Microbiology laboratory.

COMMUNICATION SKILLS :-

Graduates will effectively communicate scientific findings in both written and oral formats, including presentations and research reports.



IMPORTANCE CONSIDERATIONS :-

Align with program goals :-

Ensure your program outcomes directly relate to the overall objectives of your Microbiology program.

Specificity :-

Clearly define the expected level of knowledge and skills students should achieve up on graduation.

Measurable :-

Include verbs that can be used to assess Student competency (e.g., "explain", "analyze", "design", "apply").


Relevance to Industry :-

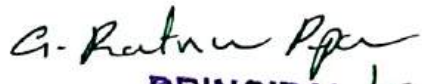

Consider the current trends and demands in the field of Microbiology when formulating your program outcomes.

G. Ratna Raju
PRINCIPAL / Ic
Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P)



PARTICIPANTS

S NO	NAME OF THE STUDENT	CLASS	SIGNATURE OF THE STUDENT
1.	B. Lalitha	II BSc Botany	B. Lalitha
2.	SK. Fathima Sullhana	II BSc Botany	SK. 
3.	K. Susmitha	II BSc Botany	K. Susmitha
4.	P. Roji	II BSc Botany	P. Roji
5.	P. Harilca	II BSc Botany	P. Harilca
6.	P. Varajakshi	II BSc Botany	P. Varajakshi
7.	SK. Rizwana	I BSc Zoology	SK. Rizwana
8.	D. Ramya	I BSc Zoology	D. Ramya
9.	L. Rajakumari	I BSc Botany	L. Rajakumari
10.	D. Amutha	I BSc Zoology	D. Amutha
11.	V. Deevana	II BSc Zoology	V. Deevana
12.	D. Kalyani	II BSc Zoology	D. Kalyani
13.	M. Supriya	II BSc Zoology	M. Supriya
14.	P. Maheswari	I BSc Zoology	P. Maheswari
15.	SK. Saneera	I BSc Zoology	SK. Saneera


PRINCIPAL / 
 Y.A. Govt. College for Women
 CHIRALA, Bapatla Dist., (A.P)

**Y.A GOVERNMENT DEGREE COLLEGE FOR WOMEN'S
CHIRALA**



**DEPARTMENT OF MICROBIOLOGY
COURSE OUTCOMES
2025 - 2026**

K. ROHINI YADAV
LECTURER IN MICROBIOLOGY



Edit with WPS Office

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

- Understand the historical significance of Microbiology and the contributions of key scientists.
- Recognise the classification of Microorganisms and their place in the living world.
- Comprehended the scope and applications of Microbiology , including the origin of microbial life and the distinction between eukaryotic and prokaryotic cells.
- They can describe the characteristics of Bacteria, Archaea, Fungi, Algae and Protozoa .
- They can describe viruses, including their nature, composition and diversity in structure.
- Develop practical skills in Aseptic techniques, growth media preparation, isolation methods and the identification of bacteria and fungi.



- Understand the classification of carbohydrates and including monosaccharides, disaccharides, polysaccharides, and sugar derivatives.
- Gain knowledge of lipids and fatty acids, including their classification, structures, functions and their role in cell signalling and Metabolism.
- Comprehended the structure and functions of amino acids and proteins, including their primary, secondary, tertiary and quaternary structures.
- Learn about the structure and functions of nucleic acids, including DNA and RNA, as well as the concept of base composition and nucleic acids - protein interactions. They will also be introduced to the role of vitamins in Metabolism.
- Understand the structure of enzymes, enzyme classification and Mechanism of action. They will also learn about the factors influencing enzyme activity and various types of enzymes inhibition.



By the completion of the course the learner should be able to -

- Understand the nature of genetic material, its organization in prokaryotes and eukaryotes, and the role of DNA and RNA.
- Explain the process of DNA replication in prokaryotes and the involvement of enzymes and factors.
- Recognise the characteristics, types, and applications of extra chromosomal genetic elements such as plasmids and transposons.
- Differentiate between classical and modern concept of genes, understand gene structure and the process of transcription.
- Comprehend the genetic code, translation process and regulation of gene expression in bacteria.
- Define and classify mutations, understand their molecular basis and gain knowledge of DNA repair mechanism.



- Understand the nutritional requirements of Microorganisms and the different methods of nutrients uptake. They will also gain knowledge of different nutritional groups and types of growth media used for Microbial cultivation.
- Gain knowledge of thermodynamics in biological systems, including concepts of Free energy, enthalpy and entropy.
 - They will also learn about ATP structure and properties, oxidation - reduction reactions and carbohydrates breakdown pathways.
 - They can explain how the innate and adaptive immune systems work together to generate an effective immune response against a specific pathogen.
 - To understand the importance of pathogenic Microorganisms in human disease with respect to infections of the respiratory track, gastrointestinal tract uninary track etc.
 - They can explain production of fermentation products and economics.
 - Explain the production method of bio fertilizers and mushrooms.
 - Preparation DPR and understand patenting




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

1. Understand the nutritional requirements of microorganisms and the different methods of nutrient uptake. They will also gain knowledge of different nutritional groups and types of growth media used for microbial cultivation.
2. Comprehend microbial growth, including the definition of growth, generation time, and the different phases of growth. They will also learn about factors influencing microbial growth and methods for measuring it.
3. Gain knowledge of thermodynamics in biological systems, including concepts of free energy, enthalpy, and entropy. They will also learn about ATP structure and properties, oxidation-reduction reactions, and carbohydrate breakdown pathways.
4. Understand microbial respiration, including aerobic and anaerobic respiration, chemoautotrophy, and fermentative modes.

G. Ratna Rao
PRINCIPAL/ie
Y.A. Govt. College for Women,
CHIRALA, Bapatla Dist., (A.P.)



STUDENTS PARTICIPATED

S. No	Name of the Student	Class	Signature
1	P. Maheswari	II BSc Zoology	P. Maheswari
2	L. Rajakumari	II BSc Botany	L. Rajakumari
3	K. Susmitha	II BSc Botany	K. Susmitha
4	P. Vanajaleshi	II BSc Botany	P. Vanaja
5	Sk. Rizwana	II BSc Zoology	Sk. Rizwana
6	D. Amrutha	II BSc Zoology	D. Amrutha
7	Sk. Saneera	II BSc Botany	Sk. Saneera
8	B. Lalitha	II BSc Botany	B. Lalitha
9	V. Deevana	II BSc Zoology	V. Deevana
10	D. Kalyani	II BSc Zoology	D. Kalyani
11	Sk. Fathima Sultana	II BSc Botany	Sk. 
12	D. Ramya	II BSc Zoology	D. Ramya
13	P. Roji	II BSc Botany	P. Roji
14	P. Harilca	II BSc Botany	P. Harilca
15	P. Mounika	II BSc Zoology	P. Mounika

G. Ratna Devi

PRINCIPAL/IC

Y.A. Govt. College for Women
CHIRALA, Bapatla Dist., (A.P.)



Department of Political Science
Y.A.Government Collegefor Women
Chirala-523155,A.P.

Re-accreditedwith 'B++'gradebyNAAC

Email:gdcwchirala@gmail.com

<https://yagcwchirala.ac.in>



NOTICE

The following are the learning outcomes of three year B.A Honours (Economics) Programme ,Programme Specific outcome with as minor subject. On successful completion of the programme students are able to :

PROGRAMME OUTCOMES

PO1. Critical Thinking: *To analyse and predict socio political phenomena based on the study of existing socio economic determinants and past experiences by various tools of investigation like empirical research method,survey research and data analysis .To be acquainted with the social ,economical, historical, geographical ,political, ideological and philosophical tradition and thinking,*

PO2.Effective Citizenship: *It provides the base to the responsible Citizen. It inculcates among students a basic understanding of the rights and duties of citizenship. The students will be ignited enough to think and act over for the solution of various issues prevailed in human life to make this world better than ever.*

PO3.Communication: *Establishment of linkages between academics and civil society at large so as to successfully address socioeconomic problems.*

PO4:Individual and team work : *Function effectively as an individual as a member or leader in different social settings.*

PO5.Ethics: *The programme enables the students to acquire knowledge with human values framing the base to deal with various problems in life with courage and humanity. The students acquire knowledge in field of social sciences, literature and humanities which make them sensitive and sensible enough*

PO6.Carrer Upliftment : *It empowers the graduates to appear for various competitive examinations or choose the post graduate programme of their choice.*

B.A Honours(Economics) Programme Specific Outcomes:

. Students will be able to understand the fundamental theories, concepts in areas of Economics, Political Science .

.Appraise the significance of Economics,Political Science in day to day life.

.Students will analyse the Indian constitutional provisions ,major Legislations and reforms

.Students will understand the nature and developments in national and international politics

.Students will be able to understand and analyse the micro and macro economic concepts and theories.

.Students will be able to analyse the macro economic problems like poverty, unemployment ,Inflation ,populationexplosion , crisis in Agriculture and suggest remedies

POLITICAL SCIENCE -MINOR

2025-2026

SEMESTER-III

COURSE 1: INTRODUCTION TO POLITICAL SCIENCE

Learning Outcomes:

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

- Learn nature, importance, and relationship with other social sciences.
- Understand the traditional and modern approaches.
- Know the origin and evolution of the state.
- Comprehend the development of social contract theory.
- Understand the birth of modern state.

SEMESTER-IV

COURSE 2: CONCEPTS & IDEOLOGIES OF POLITICAL SCIENCE

Learning Outcomes:

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

- Learn the significance of concepts.
- Understand the law and liberty.
- Know equality and power and its constituents.
- Experience the rights and its theories.
- Understanding of political ideologies.

SEMESTER-V

COURSE 3: INDIAN CONSTITUTION

Learning Outcomes:

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

- Know the origin and evolution of the Constitution.
- Understand of Constitutional Development of India.
- Comprehend the feature of Indian Constitution.
- Identify the rights and duties.
- Understanding the notion of theory of basic structure.

SEMESTER-V

COURSE 4: INDIAN GOVERNMENT

Learning Outcomes:

1. Know the President and Parliament of India.
2. Understand the Prime Minister & Council of Ministers.
3. Assess the Governor and his role.
4. Reflect the role of Chief Minister and Council of Ministers.
5. Judge the role of Judiciary.

SEMESTER-VI

COURSE 5: INDIAN FEDERAL SYSTEM

Learning Outcomes:

1. Know the importance of Centre – State Relations.
2. Learn the Indian federal process
3. Assess the electoral process in India.
4. Estimate the Panchayat Raj System.
5. Understand 73rd & 74th Constitutional Amendment Acts.

SEMESTER-VI

COURSE 6: INDIA'S FOREIGN POLICY

Learning Outcomes:

1. Understands the theoretical framework of foreign policy.
2. Enables the student to know the role of foreign policy and national interest.
3. Learns about the origin, principles and basics of Indian foreign policy.
4. Assess importance of Pancha Sheela agreement between India and China.
5. Understands the geo-political, geo-strategic determinants and cross-border terrorism in India.

DECLARATION BY STUDENT/S ABOUT P.Os/P.S.Os/C.Os

This is to certify that the programme outcome, programme specific outcomes and course outcomes of BA Honours (ECONOMICS) programme with Political Science as minor subject explained to me. I have joined this course after knowing/getting awareness on the learning outcomes of the course only.

SNO	YEAR OF JOINING 1YR DEG	ROLL NO	STUDENT NAME	MOBILE NO	SIGNATURE
1	2025-26	1	N. Esther Rani	9849796479	N. Esther Rani
2	2025-26	2	A. Ahalya	7386667870	A. Ahalya
3	2025-26	3	V. Pavani Bhai	990487167	V. Pavani Bhai
4	2025-26	4	K. Tulasi	9346805808	K. Tulasi
5	2025-26	5	S. Uthpalakshi	9573518879	S. Uthpalakshi
6	2025-26	6	P. Yesu	9394126330	P. Yesu
7	2025-26	7	J. Sukeerthi	707510972	J. Sukeerthi
8	2025-26	8	Y. Tejaswini	7386694877	Y. Tejaswini
9	2025-26	9	K. Ankamma	7893984837	K. Ankamma
10	2025-26	10	V. Pavani	9989414935	V. Pavani
11	2025-26	11	P. Jyothi	6302349185	P. Jyothi
12	2025-26	12	A. Ammaji	9381797096	A. Ammaji
13	2025-26	13	D. Nissi	6305138211	D. Nissi
14	2025-26	14	C. Chandrika	6301879939	C. Chandrika
15	2025-26	15	D. Sindhu	9494124310	D. Sindhu

S. Sai Prasanna

S. SAI PRASANNA
Dept. of Political Science
St. Degree College for Women
CHIRALA - 623 155.

[Handwritten Signature]

Y A GOVERNMENT DEGREE COLLEGE FOR WOMENS CHIRALA
DEPARTMENT OF STATISTICS
COURSE OUT COMES

DESCRIPTIVE STATISTICS

I. Learning Outcomes

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

1. To acquaint with the role of statistics in different fields with special reference to business and economics.
2. To review good practice in presentation and the format most applicable to their own data.
3. To learn the measures of central tendency or averages reduce the data to a single value which is highly useful for making comparative studies.
4. To familiar with the measures of dispersion throw light on reliability of average and control of variability.
5. To deal with the situation where there is uncertainty and to measure that uncertainty by using the probability, which is essential in all research areas.

STATISTICAL METHODS

I. Learning Outcomes

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

1. To get the knowledge of estimating future values by using curve fitting.
2. To calculate the relationship between bivariate data.
3. To find the relationship about the multivariate data.
4. To acquaint about the forecasting of the data by using regression techniques.
5. To find the association of the categorical data by using attributes.

DESIGN AND ANALYSIS OF EXPERIMENTS

I. Learning Outcomes

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

1. To acquaint with the role of statistics in different fields with special reference to agriculture.
2. Learn to apply the one of the design of experiment to agricultural fields.
3. Learn to apply the randomization to the blocks of various fields in agriculture.
4. To get the familiarity about applications of three principles.
5. Learn to deal the agricultural fields with different factors and levels.
6. To use appropriate experimental designs to analyze the experimental data.

NUMERICAL ANALYSIS

I. Learning Outcomes

After learning this course the student will be able

1. Learn the different difference operators and applications.
2. Accustom with the interpolation techniques with equal and unequal intervals.
3. Able to use numerical differentiation tools.
4. Familiar to use numerical integration methods.

APPLIED STATISTICS

I. Learning Outcomes

After learning this course, the student will be able to know about

1. Forecasting Techniques and its applications.
2. Interpret and use a range of index numbers commonly used in the business sector.
3. Perform calculations involving simple and weighted index numbers.
4. Understand the basic structure of the Consumer price index and perform calculations involving its use.
5. Various data collection methods enabling to have a better insight in policy making, planning and systematic implementation,
6. Construction and implementation of life tables.
7. Population growth curves, population estimates and projections,
8. Real data implementation of various demographic concepts as outlined above through practical assignments.

COMPUTATIONAL STATISTICS AND R PROGRAMMING

I. Learning Outcomes

After learning this course the student will be able

1. Be comfortable using commercial and open source tools such as the R language and its associated libraries for data analytics and visualization.
2. Learn skills to analyze real time problems using R
3. Able to use basic R data structures in loading, cleaning the data and preprocessing the data.
4. Able to do the exploratory data analysis on real time datasets
5. Able to understand and implement Linear Regression
6. Able to understand and use - lists, vectors, matrices, data frames, etc



DECLARATION BY STUDENT/S ABOUT P.Os/P.S.Os/C.Os

This is to certify that the programme Outcomes, Programme specific Outcomes and Course Outcomes of B.SC programme with COMPUTERS Group, STATISTICS as one of the MINOR subject are explained to me. I have joined this course after knowing / getting awareness on the learning outcomes of this course only.

S NO	CLASS & GROUP	YEAR OF JOINING	ROLL NO	STUDENT NAME	MOBILE NO	SIGNATURE
1	BSC COMP	2024	24307093001	A.VENKATA SAI	8143101079	A.venkata sai
2	BSC COMP	2024	24307093002	B.ANJANA	8374320580	B. Anjana
3	BSC COMP	2024	24307093005	CH.HEMA SRI	7386797337	CH. Hemasri
4	BSC COMP	2024	24307093007	CH. HENIN	7032701476	CH. Henin
5	BSC COMP	2024	24307093008	CH.SWAPNAPRIYANKA	9963662209	Ch. swapna Priyanka
6	BSC COMP	2024	24307093009	D. GRACE ANGEL	8897290834	D. Grace Angel
7	BSC COMP	2024	24307093011	G. BHANU AKHILA	7416712692	G. Bhanu Akhila
8	BSC COMP	2024	24307093012	G.POOJITHA	9347872028	G. Poojitha
9	BSC COMP	2024	24307093018	M. VARSHA	7842020670	M. Varsha
10	BSC COMP	2024	24307093025	P.KUSUMA	9381900423	P. Kusuma
11	BSC COMP	2024	24307093027	P. HONEY TEJASWINI	9652630836	P. Honey Tejaswini
12	BSC COMP	2024	24307093028	P. SIVA DURGA	9000904977	P. Siva durga
13	BSC COMP	2024	24307093029	S. RAJESWARI	7032503938	S. Rajeswari
14	BSC COMP	2024	24307093030	S. SIVA NAGA TRISHA	6281107326	S. Siva naga Trisha
15	BSC COMP	2024	24307093032	SK. SAFROZ	7075380185	Sk. SAFROZ
16	BSC COMP	2024	24307093033	S. JEEVAKALA	8008105514	S. Jivakala
17	BSC COMP	2024	2430709017	M. PRIYA RAJESWARI	8019428272	M. Priyarajeswari

(Signature)

DEPARTMENT OF TELUGU

2025-2026

Notice

The following are the learning outcomes of General Telugu Course. On successful completion of the programme students are able to,

Programme Outcomes

B.A., B.Com., B.Sc., etc. programs

Topic: General Telugu

- Develop personality through study of old/classical and modern literature
- Enable the students to observe different styles of writers and different dialects of the language
- Develop interest in Creative writing and translation skills
- Develop interest in improving the listening, speaking, reading and writing skills
- Develop analytical skills
- Develop proficiency in grammar and linguistics

Programme Specific Outcomes

B.A., B.Com., B.Sc., etc. programs

Topic: General Telugu

knowledge and skills which are appropriate for their employability as teachers, writers, editors, news readers and for becoming entrepreneurs like event managers,

- Modern literature in Telugu due to the influence of English language and its uniqueness is recognized.
- Gain an understanding of contemporary modern literary forms like "text poetry, short story, novel, drama, criticism.
- Gain knowledge about the aims of Bhavakavita and Abhyudaya Kavita. The emergence of existentialist movements and the need to recognize them.
- Gain social consciousness through literature. A theory can be reviewed not by theories but by knowing actual conditions.
- Gain social, cultural and political consciousness through modern Telugu fiction.

B.A., B.Com., B.Sc., etc. programs

Subject: General Telugu, Semester-3

Course - 3 : Creative Writing

Learning Outcomes:

Upon successful completion of this course, students will be able to obtain the following learning outcomes.)

- The skills learned through the study of Telugu literature can be converted into creative skills.
- Students recognize linguistics, necessity of language, importance of language. It is known that language is important for the personal life of man and the strength of the social system. By recognizing the importance of 'Varnam - Padam - Vayakya' which are the key elements of Telugu language, they can improve language skills through verbal and written expression.
- Learn to acquire and use language skills. Able to express writing and speaking skills creatively.
- Ancient poetry as well as modern literary forms like poem, story, essay, etc

తెలుసు శాఖ

Course Outcomes (COs)

B.A., B.Com., B.Sc., etc. programs

Topic: General Telugu, Semester-1

Course-1 : Ancient Telugu Poetry

(Learning Outcomes:

Upon successful completion of this course, students will be able to obtain the following learning outcomes.)

- Recognize the antiquity and uniqueness of ancient Telugu literature. In Telugu literature, Adikavi can gain knowledge about the language culture of Nannaya period and political matters of epic period.
- Understand the religious conditions and linguistic features of the time of Shiva poets. Can gain knowledge about Telugu proverbs, proverbs, folktales etc.
- Can understand the religious and religious conditions of Tikkana India, Tikkana poetry and drama.
- Able to acquire a keen sense of eloquence and a taste for different styles of epic poetry. One can identify the poetic characteristics of Srinath's time and the poetic characteristics of Molla.
- To develop the nature of Telugu poetry and literary taste. By studying the grammar of the ancient poetic language one can grasp the language skills and techniques of writing.

B.A., B.Com., B.Sc., etc. programs

Subject: General Telugu, Semester-2

Course-2 : Modern Telugu Literature

(Learning Outcomes:

Upon successful completion of this course, students will be able to obtain the following learning outcomes.)

- Besides teaching theoretical subjects related to structures, they can develop their writing skills.
- Can provide employment opportunities in creative sector and broadcasting sector.
- Can acquire expertise in the field of translation.

- Besides teaching theoretical subjects related to structures they can develop their writing skills.
- Can provide employment opportunities in creative sector and broadcasting sector
- Can acquire expertise in the field of translation

Handwritten notes in purple ink, possibly a signature or a date, located in the lower right quadrant of the page.


B.Sc. Computers

SI.NO	Name of the Student	Signature of the Student.
01	P. Pavana Sriya	P. Pavana Sriya
02	R. Venkata Lakshmi Tejaswini	R.V.L. Tejaswini
03	D. Poleamma	D. Poleamma
04	I. Eswari	I. Eswari
05	J. Ratnam	J. Ratnam
06	G. Pavani	G. Pavani
07	A. Therissa	A. Therissa
08	B. Lalitha	B. Lalitha
09	P.N. Amrutha Varshini	P.N. Amrutha Varshini
10	E. Mahitha	E. Mahitha
11	A. Ratna Priya	A. Ratna Priya
12	V. Brahmani	V. Brahmani
13	P. Navya	P. Navya
14	M. Vani	M. Vani
15	K. Rajitha	K. Rajitha
16	B. Pravalika	B. Pravalika
17	Ch. Janaki Devi	Ch. Janaki Devi
18	T. Aswitha	T. Aswitha
19	G. Ramya	G. Ramya
20	K. Keerthi	K. Keerthi
21	Sk. Gulshan	Sk. Gulshan
22	K. Naga Jyotsnani	K. Naga Jyotsnani

23.	M. Venkata Sravya	M. Venkata Sravya
24.	A. Lahari	A. Lahari
25.	A. Jyothi sri	A. Jyothi sri
26.	M. Preethi	M. Preethi
27.	k. Ramya sri	k. Ramya sri
28.	P. Parameswari	P. Parameswari →

B.Sc (Chemistry)

Name of the student	Signature of the student
M. Anusha	M. Anusha
S. Bhuvana	S. Bhuvana
B. Baby Navya Sri	B. Baby Navya Sri
D. Blessy	D. Blessy
P. Dharani teja Reddy	P. Dharani
B. Glory	B. Glory
CH. Nikhila	CH. Nikhila
M. Padma	M. Padma
V. Prasanna	V. Prasanna
G. Rohini	G. Rohini
P. Sakiti	P. Sakiti
G. Yogeswari	G. Yogeswari
P. Sindhu	P. Sindhu



B.Sc (Botany)

Name of the student	signature of the student
M. Anivitha	M. Anivitha.
Y. Nagalakshmi	Y. Nagalakshmi
K. Kumari	K. Kumari
P. Hyne	P. Hyne.
K. Pravallika	K. Pravallika
T. Blessi	T. Blessi
S. Sunitha	S. Sunitha
A. Revathi	A. Revathi
G. Akshaya Angel	G. Akshaya Angel.

50

Zoology

S.NO	NAME OF THE STUDENT	Signature
1.	J. Komalatha	J. Komalath
2.	D. Hemalatha	D. Hemalatha
3.	Ch. Malalakshmi	Ch. Maha
4.	M. Renu Sri	M. Renu
5.	T. Srija	T. Srija.
6.	B. Ramya haritha	B Ramya
7.	K. Indhu	K. Indhu
8.	G. Alekhya	G. Alekhya
9.	K. Jhansi	K. Jhansi
10.	V. Srilatha	V. Srilatha
11.	G. Christ nissy	G. Nissy...
12.	G. Divya	G. Divya.
13.	B. Ribka	B. Ribka
14.	G. Abhinaya	G. Abhinaya.

→

I. BA

Name of the student	Signature of the student
N. Ethesu sani	N. Ethesu sani
A. Ahalya	A. Ahalya
V. Pavani Bhai	V. Pavani Bhai
K. Thulasi	K. Thulasi
S. Uthpalakshi	S. Uthpalakshi
J. Sukeerthi	J. Sukeerthi
Y. Tejaswini	Y. Tejaswini
K. Ankamma	K. Ankamma
V. Pavani	V. Pavani
P. Jyothi	P. Jyothi
A. Ammaji	A. Ammaji
D. Nissi	D. Nissi
CH. Chandrika	CH. Chandrika
D. Sindhu	D. Sindhu



B.COM (COMPUTERS)

Name of the Student	signature of the student
V. Anusha	V. Anusha
S. Deepika	S. Deepika
P. Swetha Kamala	P. Swetha Kamala
K. Sireesha	K. Sireesha
J. Krishnaveni	J. Krishnaveni
K. Tejaswini	K. Tejaswini
R. Sindhu	R. Sindhu
M. Poojitha	M. Poojitha
M. Sravanthi	M. Sravanthi
D. Aksha	D. Aksha
G. Vyshnavi	G. Vyshnavi
G. Harika	G. Harika
K. Divya Sri	K. Divya Sri
K. Jyothika	K. Jyothika
B. Madhuri	B. Madhuri
G. Vijaya Durga	G. Vijaya Durga
P. Bapamma	P. Bapamma
N. Jahnvi	N. Jahnvi
G. Raheelamma	G. Raheelamma
D. Kavya	D. Kavya



k. swetha

J. Lavanya

P. Poojitha

Sr. Kowsar

R. Yasodha

M. Indhu

k. Chandrika

K. sravani

Gr. Namitha

D. Hasini

P. Bala Govardhini

Y. vijaya

Gr. Renu

M. Ratna Kumari

T. Hasini

k. swetha

J. Lavanya

P. Poojitha

Sr. Kowsar

R. yasodha

M. Indhu

K. Chandrika

k. sravani

Gr. Namitha

D. Hasini

P. bala govardhini

Y. Vijaya


Gr. Renu

M. Ratna Kumari

T. Hasini

✓

B.COM (General)

Name of the Student	Signature of the Student
1. Y. Tirupathamma	Y. Tirupathamma
2. K. Rodhe aparana	K. Rodhe aparana
3. U. Vimala Akshara	U. Vimala Akshara
4. V. Amulya	V. Amulya
5. D. Krupa	D. Krupa
6. B. Keerthi	B. Keerthi
7. T. Sasirekha	T. Sasirekha
8. P. Sravani	P. Sravani
9. J. Sruthi	J. sruthi
	

SEMESTER-V
COURSE-12: POULTRY MANAGEMENT-I (POULTRY FARMING)
COURSE OUTCOMES:
 Students at the successful completion of the course will be able to

1. Evaluate the status of the Indian Poultry Industry
2. Explain the Scientific Poultry Keeping
3. Compare the diversified Poultry practices
4. Inspect the different breeds of chicken

COURSE-13: POULTRY MANAGEMENT-II (POULTRY PRODUCTION AND MANAGEMENT)
COURSE OUTCOMES:
 Students at the successful completion of the course will be able to

1. Suggest measures for healthcare in Poultry
2. Evaluate the economics of poultry production
3. Elaborate on the poultry Breeder flock management
4. Differentiate the poultry hatchery practices

COURSE-14: AQUACULTURE MANAGEMENT
COURSE OUTCOMES: At the end of the course, students will be able to

1. Acquire knowledge of the culture of freshwater fish and prawns.
2. Describe the culturable characteristics of fish and Prawns.
3. Demonstrate the different breeding techniques.
4. Investigate and apply hatchery technology for better management practices.
5. Explain the various feed formulations for better unrationing.
6. Understand the nutritional requirements of finfish and shellfish under cultural conditions.
7. Estimate water quality; evaluate nutrition in Aquafarming.
8. Apply the knowledge of microbial infection, disease diagnosis, and control measures.
9. Analyse market demand for aquaculture products by conducting consumer surveys.

COURSE-15: POST HARVESTING TECHNOLOGY
COURSE OUTCOMES: At the end of the course, students will be able to

1. Describe spoilage-causing microorganisms of fish and fishery products
2. Analyzing post-mortem changes in fish
3. Understand the freezing technology and canning of fish
4. Understand the curing and drying of fish
5. Understand the value-added fish products and Fishery By-products
6. Understand the Packaging of fish products
7. Understand the biological hazards in seafood
8. Understand the Hazard analysis and Critical Control Points in the seafood industry
9. Understand the National and international standards for fish and fish products

S.No	Name of the student	Signature of student
1.	Ch. Hemapriyanka	Ch. Hemapriyanka
2.	D. Ratnamab	D. Ratnamala
3.	D. chashya	D. chashya
4.	K. Divya	K. Divya
5.	K. Santhoshini	K. santhoshini
6.	K. Indhu	K. Indhu
7.	K. Sireesha	K. Sireesha
8.	P. Nissy Vachalya	P. Nissy vachalya
9.	S. Mani Blessina	S. Mani Blessina

N. Aravind

SEMESTER-III

COURSE 5: ANIMAL DIVERSITY-II BIOLOGY OF CHORDATES

COURSE OUTCOMES:

By the completion of the course, the graduate should be able to -

1. Describe general taxonomic rules on animal classification of chordates
2. Classify Protochordata to Mammalia with taxonomic keys
3. Understand Mammals with specific structural adaptations
4. Understand the significance of dentition and its evolutionary significance
5. Understand the origin and evolutionary relationship of different phyla from Prochordata to Mammalia.

COURSE 6: PRINCIPLES OF GENETICS

COURSE OUTCOMES:

By the completion of the course, the graduate should be able to -

1. To understand the history of genetics, gain knowledge of the basic terminology of genetics
2. To acquire knowledge on the interaction of genes and various types of inheritance patterns existing in animals concerning non-Mendelian inheritance.
3. To acquire knowledge on chromosomal inheritance
4. Acquiring in-depth knowledge on various aspects of genetics involved in sex determination.
5. Acquiring in-depth knowledge of human karyotyping, pedigree analysis, chromosomal disorders, concepts of proteomics and genomics

COURSE 7: ANIMAL BIOTECHNOLOGY

COURSE OUTCOMES:

This course will provide students with a deep knowledge of animal biotechnology. By the completion of the course, the graduate shall be able to -

1. Get knowledge of the Vectors and Restriction enzymes used in biotechnology
2. Describe the gene delivery mechanism and the PCR technique
3. Acquire basic knowledge of media preparation and cell culture techniques
4. Understand the manipulation of reproduction with the application of biotechnology
5. Understand the applications of Biotechnology in the fields of industry and agriculture, animal cell/tissue culture, stem cell technology, and genetic engineering.

COURSE 11: IMMUNOLOGY

COURSE OUTCOMES:

This course will provide students with a deep knowledge of immunology by the completion of the course; the graduate will be able to -

1. Articulate the roles of innate recognition receptors in immune responses
2. Compare and contrast humoral versus cell-mediated immune responses
3. Distinguish various cell types involved in immune responses and associated functions.
4. Distinguish and characterize antibody isotypes, development, and functions
5. Understand the role of cytokines in immunity and immune cell activation;
6. Understand the significance of the Major Histocompatibility Complex in terms of immune response and transplantation.

S.No	Name of the student	Signature of the student
1	B. Kasturi	B. Kasturi
2	Ch. Sahithi	Ch. Sahithi
3	D. Amrutha	D. Amrutha
4	D. Ramya	D. Ramya
5	D. Kalyani	D. Kalyani
6	Udaya Lakshmi	Ab
7	M. Supriya	M. Supriya
8	P. Maheswari	P. Maheswari
9	P. Mounika	P. Mounika
10	St. Ritwana	St. Ritwana
11	S. Bhargavi Prasanna	S. Bhargavi Prasanna
12	S. Keerthana	S. Keerthana
13	V. Devenamma	V. Devenamma

N. Anas

New syllabus 2025-26

SEMESTER-I

COURSE 1: ANIMAL DIVERSITY-I BIOLOGY OF NON-CHORDATES
COURSE OUTCOMES:

By the completion of the course, the graduate should be able to -

- Describe the concept of animal kingdom classification and the general characteristics of Protozoa
- Classify Porifera and Coelenterata with taxonomic keys
- Classify Phylum Platy & Nematelminthes using examples, parasitic adaptation
- Describe Phylum Annelida & Arthropoda using examples and the economic importance of vermicomposting & the economic importance of insects.
- Describe Mollusca, Echinodermata, & Hemi Chordata with suitable examples in relation to the phylogeny

COURSE 2: ANIMAL DIVERSITY-II BIOLOGY OF CHORDATES
COURSE OUTCOMES:

By the completion of the course, the graduate should be able to -

- Describe general taxonomic rules on animal classification of chordates
- Classify Protochordata to Mammalia with taxonomic keys
- Understand Mammals with specific structural adaptations
- Understand the significance of dentition and its evolutionary significance
- Understand the origin and evolutionary relationship of different phyla from Prochordata to Mammalia.

SEMESTER-II

COURSE 3: CELL & MOLECULAR BIOLOGY
COURSE OUTCOMES:

- The overall course outcome is that the student shall develop a deeper understanding of what life is and how it functions at the cellular level.
- This course will provide students with a deep knowledge of Cell and molecular biology by the completion of the course, the graduate will be able to -
- Understand the basic unit of living organisms and differentiate the organisms by their cell structure.
- Describe the fine structure and function of the plasma membrane and different cell organelles of the eukaryotic cell.
- Explain the cell cycle and bioenergetics of the cell
- Understand the central dogma of molecular biology and the flow of genetic information from DNA to proteins
- Understand the gene expression phenomenon and the biological importance of biomolecules

COURSE 4: EMBRYOLOGY

COURSE OUTCOMES:

This course will provide students with a deep knowledge of embryology. By the completion of the course, the graduate shall be able to -

- Understand the historical perspective and concepts of embryology
- Acquire knowledge of gametogenesis, fertilization, and cleavage patterns
- Understand the fate of germinal layers and extraembryonic membranes
- Explain the process of regeneration in certain animals
- Examine the process of organogenesis

S.No.	Regd No.	Name of the student	Signature of the student
1.	2531609001	A. Prema latha	A. Prema latha
2.	2531609002	B. Ribka	B. Ribka
3.	2531609003	B. Ramya haritha	B. Ramya Haritha
4.	2531609004	Ch. malha lakshmi	Ch. mahalakshmi
5.	2531609005	D. Hema latha	D. Hema latha
6.	2531609006	G. Alekhya	G. Alekya
7.	2531609007	G. Divya	G. Divya
8.	2531609008	G. Nirmala Das	G. Nirmala Das
9.	2531609009	G. Christ nissy	G. Christnissy
10.	2531609010	G. Abhinaya	G. Abhinaya
11.	2531609011	J. Kama latha	J. Komalatha
12.	2531609012	K. Gayathri	K. Gayathri
13.	2531609013	K. Indu	K. Indu
14.	2531609014	K. Jhansi	K. Jhansi
15.	2531609015	M. Renu sri	M. Renu Sai
16.	2531609016	S. Meghara	S. Meghara
17.	2531609017	S. Nalaya sri	S. Nalaya Sri
18.	2531609018	T. Jyothi	T. Jyothi
19.	2531609019	T. Srija	T. Srija
20.	2531609020	V. Sri latha	V. Sri latha
21.			

N. Anikasa