



# Govt. College for Women (AUTONOMOUS) - GUNTUR. 1942 (Estd.) College with Potential for Excellence

**cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum**

1. Syllabus of the courses addressing Gender/Environment Sustainability/Human Values/Professional Ethics
2. Activities integrating Cross-cutting issues Gender/Environment Sustainability/Human Values/ Professional Ethics

# Govt. College for Women (A),Guntur



2020-2021

**Syllabus of the courses addressing  
Gender/Environment Sustainability/Human  
Values/Professional Ethics**

*Board of Studies Meeting - 2020*

*Department of Biochemistry*

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*12<sup>th</sup> December 2020*

*Government College for Women (A), Guntur  
Andhra Pradesh*

**Program Outcomes :**

- Students will implement and justify the use of basic techniques and equipment in biochemical investigations and will evaluate information critically, using analytical reasoning and quantitative skills.
- Appreciate the chemical aspect of biology in mechanisms involved in every move of the life in vitro and in vivo.
- Students could be able to integrate plant metabolisms and their applications using biochemical techniques.
- Students could use scientific knowledge, critical thinking ability, and methodologies which improves their opportunities in employment in different fields like agricultural biochemistry, chemical, plant sciences, Molecular Diagnostics, tissue culture and molecular biology laboratories, plant, animal, industrial biotechnology.
- Also facilitates to pursue their higher studies in post-graduation.
- Could able to Speak, read, write and listen in person and through electronic media and there by connecting people, ideas, books, media and technology.
- Could able to involve in constructing equity centered nation, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- Would recognize different value systems including their own and understand the morality of decisions, and accept responsibility
- Would able to understand the issues of environmental contexts and sustainable development and take part in building secured and healthy surroundings.
- Acquire the ability to engage in independent and life-long learning.

**Program Specific Outcomes :**

At the completion of a Bachelor of Science degree in Biochemistry, a graduate will have:

1. Developed the ability to communicate effectively through oral and written formats
2. Acquired an appreciation of the impact of science on society.
3. Identified, explored, and developed a career and continuing education plan
4. Developed critical thinking skills/ laboratory techniques so as to be capable of designing, carrying out, interpreting experiments practically.
5. Developed a thorough understanding of the function of biological molecules through the study of their molecular structure
6. Analyzed and had understanding on chemical and regulatory interrelationship between major cellular synthetic and catabolic pathways
7. Could perform procedures using different techniques and lab equipment in molecular biology, and their potential applications to medical and veterinary science;

9. Acquired their knowledge and understanding in tackling more advanced and specialised courses, and more widely to pursue independent, self-directed and critical learning.

College Development Council

ONGJ2346127/128

No. ANU/SI/AMU/ SI/GCW- GNT/Autonomous/Uni-Nominee/2020 Dated 4-06-2020

**PROCEEDINGS OF THE VICE-CHANCELLOR**

Present: Prof. Raja Sekhar P (FAC)

Sub: ANU-Affiliation Section- Government College for Women (Autonomous), Guntur  
Nomination of University Representatives on Governing Body, Academic Council and Boards of Studies- Orders- Issued.

Ref: 1. Letter dated 4-02-2020 of the Principal, Government College for Women (Autonomous), Guntur.

2. Vice-Chancellor orders dated 18-03-2020.

**ORDER:**

In Pursuance of the UGC Guidelines on the Scheme of Colleges, the Vice-Chancellor has nominated the following Professors as University Representatives on Governing Body, Academic Council and Boards of Studies as noted against the subjects of Government College for Women (Autonomous), Guntur.

Sl. No.	Name of the Committee	Name of the Nominee
1	<b>Governing Body</b>	Dr. K. Sunitha ( OSD), Department of Zoology & Aquaculture ANU
<b>Academic Council</b>		
1	Arts	1. Dr. K. Dhanalakshmi, Department of Sociology & Social work, ANU.
2	Science	2. Dr. Sandhya Cole, Department of Physics, ANU
3	Commerce	3. Dr. B. Naga Raju, Department of HRM, ANU
<b>Boards of Studies</b>		
Sl. No.		Name of the Nominee
1	English	Dr. B. Karuna, Dept. of English, ANU
2	Telugu	Dr. E. Madhavi, Dept. of Telugu & Oriental Languages, ANU
3	Hindi	Dr. K. Srikrishna, Dept. of Hindi, ANU
4	Mathematics	Dr. B. Satyanarayana, Dept. of Mathematics, ANU.
5	Statistics	Prof. A. Vasudeva Rao, Department of Statistics, ANU
6	Physics & Electronics	Dr. G. Naga Raju, Dept. of Physics, ANU
7	Chemistry	Dr. Anitha C. Kumari, Dept. of Chemistry, ANU.
8	Computer Science	Prof. K. Gangadhar Rao, Dept. of Computer Science, ANU
9	Multimedia	Dr. G. Anitha, Department of Journalism and Mass Communication
10	Botany	Dr. M. Raghun Ram, Mallikarjuna Rao, Dept. of Botany and Microbiology, ANU
11	Zoology	Dr. K. Sumanth Kumar, Dept. of Zoology, ANU
12	Microbiology	Dr. YRKV Tirupathi Rao, Department of Botany & Microbiology, ANU.
13	Bio-Chemistry	Dr. Rajeswari Jinka, Department of Bio-Chemistry, ANU.
14	Bio-Technology	Dr. K. Krishna Satya, Department of Bio-Technology, ANU
15	Commerce	Dr. V. Tulasi Das, Dept. of HRM ANU
16	History	Dr. E.V. Padmaja, Dept. of History & Archeology, ANU
17	Economics	Dr. K. Madhu Babu, Dept. of Economics, ANU.
18	Politics	Prof. M. Ravi Sekhar, Dept. of political Science and Public Administration, ANU.
19	Sociology	Prof. Saraswathi Raju Iyer, Department of Sociology & Social Work ANU
20	Psychology	Dr. D. Saroja, Department of Psychology, ANU.

The membership of the University Nominees are valid for a period of two years with effect from the date of this order or till the members retires from the service whichever is earlier.

(BY ORDER)

  
 DEAN, CDC

To  
The Individuals.

Copies to:

1. The Secretary & Correspondent, GCW (Autonomous), Guntur District
2. The Principal, GCW (Autonomous), Nagaram, Guntur District
3. The Secretary, University Grants Commission, Bahadur Shah, Zafar Marg, New Delhi
4. The Secretary, APSCHE, Mangalagiri
5. The Joint Registrar, (Academic & Teaching Establishment), ANU
6. The Deputy Registrar Academic Section, ANU.
7. The Coordinator, PG Examinations, ANU
8. The Controller of Examinations, ANU

**Govt. College for Women**  
(An Autonomous Institution with CPE Status)  
**Guntur**

**Department of Biotechnology**

**Board Of Studies**  
**For the Academic Year**

**2020-21**

GOVERNMENT DEGREE COLLEGE FOR WOMEN(A)  
GUNTUR

CBCS SYLLABUS FOR B.Sc. BIOTECHNOLOGY PROGRAMME

2020-2021

**Learning Objectives:**

- To Provide excellent blend of theory and practical knowledge
- To encourage the students to design, perform experiments, analyze and interpret data for investigating complex problems in Biochemistry and Biotechnology.
- To initiate critical thinking abilities and research aptitude among the students.
- To encourage students to take up career in applied sciences.
- To make the students the globally competent and employable
- To Prepare engineering professionals with highest ethical values and a sense of responsible citizenship

**Programme Outcome:**

- Knowledge based courses in the earlier semesters impart in depth understanding of cell structure and organelle function.
- A strong foundation in chemistry will enable the students to experience the structure based learning of bio molecules and metabolism.
- Courses in the later semesters impart analytical skills and problem solving ability among the students.
- Application based courses, the ease of performing experiments in the end semesters bring in the sense of realization and social responsibility among the graduate to further contribute in the field of developing solutions to food crisis, medical facility and sustainable environment.
- Programmes encourage students in participative learning by organizing seminars, expert lectures, Industrial visits.
- Various certificate courses, Project works and internships given to the students further improve their critical thinking and analytical skills.
- The academic training of integrating the principles of various analytical techniques will inspire the student to take up higher education in applied sciences and conduct research in the interdisciplinary areas

**Programme Specific outcome:**

- Application oriented classroom teaching, interactive sessions and state of art laboratory facilities provided by the departments for extensive lab work, dissertation projects will enable the students to design, to perform experiments, analyze and interpret data for investigating complex problems in Biotechnology.

- Graduates attain the ability to work in groups projects and group discussions which is very much important for cooperative learning.
- Graduates will be motivated to take up contemporary issues in biotechnology for seminars and dissertation projects.
- Use of ICT tools by teachers gives a learning experience to the students .students get encouraged to use ICT tools for various presentations and literature research etc.
- Graduates will be able to justify societal, health, safety and legal issues for judicious use of resources and understand their responsibilities to contribute for improving the quality of living.
- The rich academic training improves the entrepreneurship skills among the graduates, which is the main motto of the developing nation.
- The quality of course contents assist the students for preparation for related P.G. programmes and also promote the spirit of research.

**No. of Programmes offered : 02**

B.Sc Biotechnology-Botany –Chemistry (406)

B.Sc Biotechnology-Biochemistry-Chemistry (407)

# Skill Development

Government College for Women (Autonomous), Gunder  
B.Sc Biotechnology Semester - IV Theory Syllabus w.e.f June 2020

## Paper -IV: Fundamentals of Immunology

Course Code - BT4310

60hrs (6hrs/week)

### Course objectives:

- To impart the basic understanding of cells and organs of immune system
- To enable the students to design experiments to evaluate underlying immunological basis of diseases.
- To educate the students regarding Auto immunity, Hyper sensitivity reactions in Health and disease
- To make the students aware of recent advanced immunological diagnostic methods and strategies

### UNIT I Immune system

- 1.1 Types of immunity - Innate and Acquired immune mechanism
- 1.2 Organs and cells of immune system (Immunity).
- 1.3 Main pathways of complement system.

### UNIT II Antibody and Antigen:

- 2.1 Antibody structure and classes, epitomization, Antibody diversity
- 2.2 Types of Antigen, Antigenicity (factors affecting antigenicity), haptens, adjuvants
- 2.3 Complement system.

### UNIT III Immunity:

- 3.1 Humoral immunity
- 3.2 Cell mediated immunity: TC mediated immunity, NK cell mediated immunity, ADCC
- 3.3 Brief description of cytokines and MHC (MHC types and diversity)

### UNIT IV Hypersensitivity and vaccination

- 4.1 General features of hypersensitivity, various types of hypersensitivity
- 4.2 Autoimmunity, autoimmune disorders
- 4.3 Vaccination: Discovery, principles, significance, Types of Vaccines (Traditional - live attenuated, heat killed, toxoids, Modern vaccines - recombinant, DNA, peptide), adjuvants

## UNIT V Immunological Techniques:

- 5.1 Antigen-antibody reactions: Precipitation, agglutination, complement fixation, ELISA, Immuno diffusion.
- 5.2 Hybridoma technology: Monoclonal antibodies and their applications in immune diagnosis.

### Course Outcomes

- The basic understanding of microbial physiology, cellular and molecular components of immune system, genetic control of elements will help the students to design experiments to evaluate underlying causes of diseases.
- The basic understanding of microbial physiology, cultural characteristics will enable the students to identify micro organisms that cause diseases

### List of Practicals:

1. Antigen – antibody reaction – determination of Blood group, Cross reactivity
2. Pregnancy test
3. Widal test
4. Ouchterlony immunodiffusion
5. Radial immunodiffusion
6. ELISA

# Employability skills

Government College for Women (Autonomous), Guntur  
B.Sc Biotechnology Semester – VI Theory Syllabus w.e.f. June 2020

Cluster Elective - II Fermentation and Downstream Processing  
Name of the Elective- Basics of Fermentation

Course Code – BT8310 B1

60hrs (4hrs/week)

## Course Objectives:

- To enable the Student to learn skills of bio precarious technology, use of genetically engineered microorganisms for mass production of chemicals, therapeutics on commercial scale to meet the global demand.
- To give the students the Hands on experience of various productions at laboratory level, will definitely drive students for higher learning.

## Unit I:

Isolation, Screening of Microorganisms, Fundamentals of fermentation process - details of the Fermenters, Synthetic and Natural Medium, Precursors, Antifoams, Sterilization Methods and Inoculum Preparation, sampling ports, detection of contamination

## Unit II:

Introduction to instrumentation: pH probes, dissolved oxygen probes, other biosensors. Large scale production of recombinant proteins and other cell culture products.

## Unit –III

Fermentation broth rheology. Fluid flow and mixing. Newton's law of Viscosity. Momentum transfer. Non-newtonian fluids. Flow patterns in agitated vessels with aeration and without aeration. Oxygen requirements of microbial cultures. Oxygen transfer by aeration and agitation.

## Unit IV:

Methods of determination of oxygen transfer coefficient, factors affecting oxygen transfer coefficient, correlation for volumetric oxygen mass transfer coefficient, overview of methods for online and offline monitoring of bioreactors, bio-processes measurements

#### Unit -V

Production of microbial metabolites Alcoholic Beverages like Beer and Wine, Vinegar, Production of Citric Acid, Production of Microbial Enzymes like Amylase and Protease. Backer's Yeast and SCP Production. Production of Antibiotics : Penicillin and Streptomycin.

#### Course Outcomes:

- Graduate will have great experiential leaning of various methods of isolation and engineering of industrially useful micro organisms for mass production of chemicals and Pharmaceuticals.
- Thorough knowledge of using genetically modifies organisms for bioremediation, Genetic engineering for conservation of biodiversity and Ecosystems will make the students to further identify more research problems prevailing in the society.

#### Practical -

1. Principles of bread making
2. Isolation of industrially important microorganisms from soil.
3. Isolation of amylase producing organisms from soil.
4. Production of  $\alpha$  - amylase from Bacillus Spp. by shake flask culture.
5. Production of alcohol or wine using different substrates.
6. Estimation of alcohol by titrimetry.
7. Estimation of alcohol by calorimetric method
8. Production of citric acid.
9. Estimation of citric acid by titrimetry.
10. Analysis of molasses by laneeynon double reduction method.

## Certificate

This is certified that for the academic year 2020-21; the syllabi, model question papers and blue prints for theory exams; practical exam pattern, pattern of mid semester exams and internal marks allotment; credit system for 1<sup>st</sup>, 3<sup>rd</sup>, 5<sup>TH</sup> semesters, panel of examiners and paper setters were approved by the Board of Studies. Other activities of the department like workshop / guest lectures, field trips, Certificate course etc., were also approved after thorough discussion in Board Of Studies meeting which was held on 10.12.2020 at 3:00 P M in Dept. of Biotechnology, Govt. College for Women (Autonomous), Guntur and recommend the same for the approval in academic counsel.

S.No	Name	Designation	Signature
1.	Dr. S. Priyanka	Chair Person	S. Priyanka
2.	Dr. A. Krishna Sathya	University Nominee	A. Krishna Sathya
3.	Dr. Vijay Rajesh Andanamala	Subject Expert	Vijay Rajesh A.
4.	Dr. John Babu	Subject Expert	John Babu
5.	Dr. Subbarayudu	Industrialist	Subbarayudu
6.	Mrs. Keerthi Tejaswini	Alumnus	R. Keerthi Tejaswini
7.	P. Sravani	Student	P. Sravani
8.	Sd. Atiya fathima	Student	Sd. Atiya
9.	P. Ramya	Student	P. Ramya

  
Principal

**PRINCIPAL**  
**GOVT. COLLEGE FOR WOMEN (A)**  
**GUNTUR.**

Signatures of Members:

S.No	Name	Designation	Signature
1.	Dr. S. Priyanka	Chair Person	S. Priyanka
2.	Dr.K. Krishna Sathya	University Nominee	A. Krishna Sathya
3.	Dr. Vijay Rajesh Andanamala	Subject Expert	Vijay Rajesh Andanamala 10/11/2022
4.	Dr. John Babu	Subject Expert	John Babu
5.	Dr. Subbarayudu	Industrialist	Subbarayudu
6.	Mrs. Keerthi Tejaswini	Alumnus	Mrs. Keerthi Tejaswini
7.	P. Srarani	Student	P. Srarani
8.	Sd. Atiya Fathima	Student	Sd. Atiya
9.	P. Ramya	Student	P. Ramya

GOVERNMENT DEGREE COLLEGE FOR WOMEN (A) GUNTUR

DEPARTMENT OF BOTANY

B.A, B.Com & B.Sc. PROGRAMMES

Revised CBCS 2020-21

SKILL DEVELOPMENT COURSES

Science Stream

Syllabus of

PLANT NURSERY

Total 30 hrs (02h/wk),

02 Credits & Max Marks: 50

**Learning Outcomes :**

On successful completion of this course students will be able to;

1. Understand the importance of a plant nursery and basic infrastructure to establish it.
2. Explain the basic material, tools and techniques required for nursery.
3. Demonstrate expertise related to various practices in a nursery.
4. Comprehend knowledge and skills to get an employment or to become an entrepreneur in plant nursery sector.

**Syllabus:**

**Unit-1 :Introduction to plant nursery**

**06 Hrs.**

1. Plant nursery: Definition, importance.
2. Different types of nurseries –on the basis of duration, plants produced, structure used.
3. Basic facilities for a nursery; layout and components of a good nursery.
4. Plant propagation structures in brief.
5. Bureau of Indian Standards (BIS-2008) related to nursery.

**Unit- 2 :Necessities for nursery**

**09 Hrs.**

1. Nursery beds – types and precautions to be taken during preparation.
2. Growing media, nursery tools and implements, and containers for plant nursery, in brief.
3. Seeds and other vegetative material used to raise nursery.in brief.
4. Outlines of vegetative propagation techniques to produce planting material.
5. Sowing methods of seeds and planting material.

### Unit-3 :Management of nursery

09 Hrs.

1. Seasonal activities and routine operations in a nursery.
2. Nursery management – watering, weeding and nutrients; pests and diseases.
3. Common possible errors in nursery activities.
4. Economics of nursery development, pricing and record maintenance.
5. Online nursery information and sales system

#### Suggested text books/reference books :

1. Ratha Krishnan, M., et.al. (2014) *Plant nursery management : Principles and practices*, Central Arid Zone Research Institute (ICAR), Jodhpur, Rajasthan
2. Kumar, N., (1997) *Introduction to Horticulture*, Rajalakshmi Publications, Nagercoil.
3. KumarMishra, K., N.K. Mishra and Satish Chand (1994) *Plant Propagation*, John Wiley & Sons, New Jersey.

#### Suggested Co-curricular activities (6 Hrs.)

1. Assignments/Group discussion/Quiz/Model Exam.
2. Demonstration of nursery bed making.
3. Demonstration of preparation of media for nursery.
4. Hands on training on vegetative propagation techniques.
5. Hands on training on sowing methods of seeds and other material.
6. Invited lecture cum demonstration by local expert.
7. Watching videos on routine practices in plant nurseries.
8. Visit to an agriculture/horticulture /forest nursery.
9. Case study on establishment and success of a plant nursery.

### III B. Sc - BOTANY SYLLABUS

#### SEMESTER- VI PAPER – VII – ELECTIVE

#### Paper VII-(C): Plant tissue culture and its biotechnological applications

Total hours of teaching 60hrs @ 3hrs per week

#### Learning Outcomes

- The production of exact copies of plants that produce particularly good flowers, fruits, or have other desirable traits.
- To quickly produce mature plants.
- The production of multiples of plants in the absence of seeds or necessary pollinators to produce seeds.
- The regeneration of whole plants from plant cells that have been genetically modified.
- The production of plants in sterile containers that allows them to be moved with greatly reduced chances of transmitting diseases, pests, and pathogens.
- The production of plants from seeds that otherwise have very low chances of germinating and growing, i.e.: orchids and Nepenthes.
- To clear particular plants of viral and other infections and to quickly multiply these plants as 'cleaned stock' for horticulture and agriculture.
- Teach, train and graduate qualified skilled scientists in many disciplines of Biotechnology.
- Develop, implement and evaluate the curriculum of biotechnology program with a strong commitment to be aligned and comply with the national and international standards of the quality assurance.
- Conduct applied research in basic and translational biotechnology and fosters interactions and collaboration between faculty, researchers and industry.
- Promote a supportive learning environment for life through implementing continuous learning programs.
- Apply the general principles and standards of technology transfer and ensure adequate training of our personnel in modern biotechnology

#### Unit I: PLANT TISSUE CULTURE – 1

(12hrs)

1. History of plant tissue culture research - basic principles of plant tissue callus culture, meristem culture, organ culture, Totipotency of cells, differentiation and dedifferentiation.
2. Methodology - sterilization (physical and chemical methods), culture media, Murashige and Skoog's (MS medium), phytohormones, medium for micropropagation/clonal propagation of ornamental and horticulturally important plants.
3. Callus subculture maintenance, growth measurements, morphogenesis in callus culture – organogenesis, somatic embryogenesis.

#### UNIT-II: Plant Tissue culture -2

(12hrs)

1. Endosperm culture – Embryo culture -culture requirements – applications, embryo rescue technique.
2. Production of secondary metabolites.
3. Cryopreservation; Germplasm conservation.

(12hrs)

**Unit III: Recombinant DNA technology**

1. Restriction Endonucleases (history, types I-IV, biological role and application); concepts of restriction mapping.
2. Cloning Vectors: Prokaryotic (pUC 18, pBR322, Ti plasmid and Lambda phage, Eukaryotic Vectors (YAC and briefly PAC)
3. Gene cloning (Bacterial Transformation and selection of recombinant clones, PCR mediated gene cloning)

(12hrs)

**Unit IV: Methods of gene transfer**

1. Methods of gene transfer- Agrobacterium-mediated, direct gene transfer by Electroporation, Microinjection, Micro projectile bombardment.
2. Selection of transgenics– selectable marker and reporter genes (Luciferase, GUS, GFP).

(12 hrs)

**Unit V: Applications of Biotechnology**

1. Applications of Plant Genetic Engineering – crop improvement, herbicide resistance, insect resistance, virus resistance.
2. Genetic modification – transgenic plants for pest resistant (Bt-cotton); herbicide resistance (Round Up Ready soybean); improved agronomic traits - flavrSavr tomato, Golden rice); Improved horticultural varieties (Moon dust carnations)

**Books for Reference**

1. Pullaiah. T. and M.V.Subba Rao. 2009. Plant Tissue culture. Scientific Publishers, New Delhi.
2. Bhojwani, S.S. and Razdan, M.K., (1996). Plant Tissue Culture: Theory and Practice. Elsevier Science Amsterdam. The Netherlands.
3. Glick, B.R., Pasternak, J.J. (2003). Molecular Biotechnology- Principles and Applications of recombinant DNA. ASM Press, Washington.
4. Bhojwani, S.S. and Bhatnagar, S.P. (2011). The Embryology of Angiosperms. VikaPublicationHouse Pvt. Ltd., New Delhi. 5th edition.
5. Snustad, D.P. and Simmons, M.J. (2010). Principles of Genetics. John Wiley and Sons, U.K. 5th edition.
6. Stewart, C.N. Jr. (2008). Plant Biotechnology & Genetics: Principles, Techniques and Applications. John Wiley & Sons Inc. U.S.A.

GOVERNMENT COLLEGE FOR WOMEN (A), GUNTUR

SEMESTER – VI

III B. Sc - BOTANY SYLLABUS

SEMESTER- VIII : CLUSTER ELECTIVE -A

Paper VIII-A-2 : ETHNOBOTANY AND MEDICINAL BOTANY

Total hours of teaching 60hrs @ 3hrs per week

Learning Outcomes

- Be able to discuss patterns of cultural evolution with plants: Nutrition from plants and evolution of food processing
- Patterns of human plant selection for food, medicine, poison, ritual and religion
- Legal systems and regulation of plant uses and access
- Understand important interactions between cultural practices, ecosystems, and modern science.
- Know the major areas of human interactions with plants / environments: Medicinal / Biochemical
- Identify specific plant taxa used by people in daily life.
- Key Plants that are Examples of Global Ethnobotanical Phenomena
- Know characteristics of plant taxa used by people: Physiology and biochemistry of useful plants
- Pharmacology and toxicity of useful plants
- Classify the biodiversity into genetic diversity, species diversity and ecosystem diversity
- Intellectual property rights protocol to control bio piracy

Unit –I: Ethnobotany

(12hrs)

- i. Introduction, concept, scope and objectives; Ethnobotany as an interdisciplinary science. The relevance of ethnobotany in the present context.
- ii. Major and minor ethnic groups or Tribals of India, and their life styles. iii. Plants used by the tribal populations: a) Food plants, b) intoxicants and beverages, c) Resins and oils.

Unit -II: Role of ethnobotany in modern Medicine:

(12hrs)

- i. Role of ethnobotany in modern medicine with special example Rauwolfiaserpentina, Trichopuszeylanicus, Artemisia annua, Withaniasomnifera.
- ii. Significance of the following plants in ethno botanical practices (along with their habitat and morphology) a) Azadirachta indica, b) Ocimum sanctum, c) Vitexnegundo, d) Gloriosasuperba, e) Tribulusterrestris, f) Phyllanthusniruri , g).Curcuma longa.

Unit-III: Ethnobotany as a tool to protect interests of ethnic groups

(12hrs)

- i. Role of ethnic groups in the conservation of plant genetic resources.
- ii. Biopiracy, Intellectual Property Rights and Traditional Knowledge.

**Unit -IV: History, Scope and Importance of Medicinal Plants. indigenous Medicinal Sciences (12hrs)**

- i. Definition and Scope-Ayurveda: History, origin, panchamahabhutas, saptadhatu and tridosha concepts, Rasayana, plants used in ayurvedic treatments.
- ii. Siddha: Origin of Siddha medicinal systems, Basis of Siddha system, plants used in Siddha medicine.

**Unit -V: Conservation of endangered and endemic medicinal plants: (12hrs)**

- i. Definition: endemic and endangered medicinal plants,
- ii. Red list criteria
- iii. In situ conservation: Biosphere reserves, sacred groves, National Parks
- iv. Ex situ conservation: Botanical Gardens.

**Suggested Readings:**

- 1) S.K. Jain, Manual of Ethnobotany, Scientific Publishers, Jodhpur, 1995.
- 2) Glimpses of Indian. Ethnobotany, Oxford and I B H, New Delhi – 1981.
- 3) S.K. Jain (ed.) 1989. Methods and approaches in ethnobotany. Society of ethnobotanists, Lucknow, India.
- 4) S.K. Jain, 1990. Contributions of Indian ethnobotany. Scientific publishers, Jodhpur.
- 5) Colton C.M. 1997. Ethnobotany – Principles and applications. John Wiley and sons – Chichester.
- 6) Rama Ro, N and A.N. Henry (1996). The Ethnobotany of Eastern Ghats in Andhra Pradesh, India. Botanical Survey of India. Howrah.
- 7) Trivedi P C, 2006. Medicinal Plants: Ethnobotanical Approach, Agrobios, India.
- 8) Purohit and Vyas, 2008. Medicinal Plant Cultivation: A Scientific Approach, 2nd edn. Agrobios, India.
- 9) Pal, D.C. & Jain, S.K., 1998. Tribal Medicine. Naya Prakash Publishers, Calcutta.
- 10) Raychudhuri, S.P., 1991. (Ed.) Recent advances in Medicinal aromatic and spice crops. Vol.1, Today & Tomorrow's printers and publishers, New Delhi

**III B. Sc - BOTANY SYLLABUS SEMESTER- VIII**  
**CLUSTER ELECTIVE, Paper VIII-A-3**

**Paper VIII-A-3: Pharmacognosy and Phytochemistry**

**Total hours of teaching 60hrs @ 3hrs per week**

**Unit-I: Pharmacognosy (12hrs)** Definition, Importance, Classification of drugs - Chemical and Pharmacological, Drug evaluation methods

**Unit -II: Organoleptic and microscopic studies: (12hrs)**  
Organoleptic and microscopic studies with reference to nature of active principles and common adulterants of *Alstonia scholaris* (bark), *Adhatodavasica*(leaf), *Strychnos nuxvomica* (seed), *Rauwolfia serpentina*(root) and *Zinziber officinalis Catharanthusroseus*.

**Unit-III: Secondary Metabolites: (12hrs)**

- Definition of primary and secondary metabolites and their differences, major types - terpenes, phenolics, alkaloids.
- A brief idea about extraction of alkaloids. Origin of secondary metabolites – detailed account of acetate pathway, mevalonate pathway.

**UNIT-IV: Phytochemistry: (12hrs)**  
Biosynthesis and sources of drugs:

- i. Phenols and phenolic glycosides : structural types, biosynthesis, importance of simple phenolic compounds, tannins, anthocyanins.
- ii. Steroids, sterols, saponins, Biosynthesis, commercial importance.
- iii. Alkaloids: Different groups, biosynthesis,
- iv. Volatile oils, aromatherapy.

**UNIT-V: Enzymes, proteins and amino acids as drugs: (12hrs)**

- i. Vaccines, toxins and toxoids, antitoxins, immune globulins, antiserums,
- ii. Vitamins, Antibiotics – chemical nature, mode of action.
- iii. Pharmacological action of plant drugs, antioxidants, phytoestrogens
- iv. Role of different enzyme inhibitors.

#### BOOKS FOR REFERENCE

1. Wallis, T. E. 1946. Text book of Pharmacognosy, J & A Churchill Ltd. 2. Roseline, A. 2011. Pharmacognosy. MJP Publishers, Chennai.
2. Gurdeep Chatwal, 1980. Organic chemistry of natural products. Vol.I.Himalaya Publishing house.
3. Kalsi, P. S. and Jagtap, S., 2012. Pharmaceutical medicinal and natural product chemistry N.K. Mehra . Narosa Publishing House Pvt. Ltd. New Delhi.
4. Agarwal, O. P. 2002. Organic chemistry–Chemistry of organic natural products. Vol. II. Goel publishing house , Meerut.
5. 5Harborne, J. B. 1998. Phytochemical methods –a guide to modern techniques of plant analysis 3 rd edition, Chapman and Hall 6. Datta&Mukerji, 1952. Pharmacognosy of Indian roots of Rhizome drugs. Bulletin No.1 Ministry of Health, Govt. of India.

### III B. Sc - BOTANY SYLLABUS SEMESTER- VI

#### PAPER – VII – ELECTIVE Paper VII-(B):

#### Nursery, Gardening and Floriculture.

##### Learning Outcomes

- To cultivate and promote research, education and development of Horticulture and allied branches of science.
- To recognize and support excellence achieved in scientific research and development in the field of Horticulture by individual scientists, inter-disciplinary teams, recognized institutions, learned societies and industry.
- To promote contact and co-operation among R & D personnel working in different institutions and areas (including growers and industry).
- To regularly bring out the Indian Journal of Horticulture and any other publication decided by the Society.
- To disseminate knowledge on all Horticultural crops and their different aspects by holding seminars, symposia, conferences, discussions etc. and publishing their proceedings.
- To secure and manage funds and endowments for the promotion of Horticulture in all its aspects.
- To undertake other activities relevant to accomplish the above objectives.
- To focus on the promotional and awareness aspects by providing incentives to the farmers and motivating them to grow traditional as well as 'non-traditional floral crops and house-plants for commercial purpose.

##### Unit I: Nursery:

(12 hrs.)

1. Definition, objectives, scope and building up of infrastructure for nursery.
2. Planning and seasonal activities - Planting - direct seeding and transplants.
3. Nursery Management and Routine Garden Operations.

##### Unit II: Gardening

(12 hrs.)

4. Definition, objectives and scope - different types of gardening.
5. Landscape and home gardening - parks and its components, plant materials and design .
6. Gardening operations: soil laying, manuring, watering.
7. Landscaping Places of Public Importance: Landscaping highways and Educational Institutions).

### Unit III: Propagation methods

(12 hrs.)

8. Sowing/raising of seeds and seedlings, transplanting of seedlings.
9. Air-layering, cutting, selection of cutting, propagule collecting season, treatment of cutting rooting medium and planting of cuttings - Hardening of plants.
10. Propagation of ornamental plants by rhizomes, corms tubers, bulbs and bulbils.
11. Green house - mist chamber, shed root, shade house and glass house for propagation.

### Unit IV: Floriculture:

(12 hrs.)

12. Ornamental Plants: Flowering annuals; herbaceous, perennials; Divine vines; Shade and ornamental trees.
13. Ornamental bulbous and foliage plants; Cacti and succulents.
14. Ornamentals-palms.
15. Cultivation of plants in pots; Indoor gardening; Bonsai.

### Unit V: Commercial Floriculture

(12 hrs.)

16. Factors affecting flower production; Production and packaging of cut flowers; Flower arrangements; Methods to prolong vase life of flowers
17. Cultivation of Important cut flowers, Gerbera, Marigold, Rose.
18. Management of pests, diseases and harvesting.
19. Methods of harvesting.

### Books for Reference:

1. Bose T.K. & Mukherjee, D., 1972, Gardening in India, Oxford & IBH Publishing Co., New Delhi.
2. Sandhu, M.K., 1989, Plant Propagation, Wile Eastern Ltd., Bangalore, Madras.
3. Kumar, N., 1997, Introduction to Horticulture, Rajalakshmi Publications, Nagercoil. institution)
4. 4.Randhawa, G.S. and Mukhopadhyay, A. 1986. Floriculture in India. Allied Publishers. Suggested co-curricular activities for Botany in Semester-VII B

# COCOONS



A Thesis

Submitted to the Department of English Government College For  
Women(A)Guntur,

In partial fulfillment of the Requirement for the Award of  
Bachelor of Science(M.P.C.)

2021

A project report on  
**SILKWORM AND COCOON**

Submitted to  
Government Degree College For Women(A), Guntur(A.P.)  
BACHELOR OF SCIENCE(2<sup>nd</sup> B.Sc.M.P.C.)

IN  
DEGREE

T.LAKSHMI PRIYANKA  
(19301051)

O.JEEVANI  
(19301031)

SK.SHAZIYA  
(19301046)

K.GEETHIKA  
(19301060)

Under the Esteemed Guidance of  
M.VIJAYALAKSHMI, Asst.Prof M.A English  
*literature, M.Sc.psychology*



DEPARTMENT OF ENGLISH  
GOVERNMENT DEGREE COLLEGE FOR WOMEN (A), GUNTUR  
Sambasiva pet, GUNTUR

## Declaration

I here by declare that this thesis is a record of work done by us and carried out in the Department Of English, Government Degree College For Women (A), Sambasivapet, Guntur. And that it has not previously formed the basis for the any degree diploma or other similar title..

T. Lakshmi Priyanka

T. Lakshmi Priyanka

O. Jeevani

O. Jeevani

Sk. Shaziya

Sk. Shaziya

K. Geethika

K. Geethika

(IIB.Sc.M.P.C.)

M. Vijay  
15/3/21

PROF:M.VIJAYALAKSHMI  
DEPARTMENT OF ENGLISH  
GOVERNMENT DEGREE COLLEGE FOR WOMEN(A)  
GUNTUR DIST,A.P.,INDIA

## CERTIFICATE

This is to certify that this thesis is a genuine and bonafide work done by Miss T.Lakshmi Priyanka, Miss.O.Jeevani, Miss Sk.Shaziya, Miss K.Geethika Under our directions and guidance.

*M. Vijaya*  
15/3/21  
M. VijayaLakshmi



**Govt. College for Women**  
**(AUTONOMOUS) - GUNTUR, 1942 (Estd.)**  
**Centre with Potential for Excellence**

**DEPARTMENT OF MICROBIOLOGY**

**BOS MEETING**

**On 10.12.2020**

**FOR THE ACADEMIC YEAR**

**2020 - 2021**



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Centre with Potential for Excellence

**DEPARTMENT OF MICROBIOLOGY**

**BOS MEETING**

**On 10.12.2020**

**FOR THE ACADEMIC YEAR**

**2020 - 2021**

GOVERNMENT COLLEGE FOR WOMEN (A), GUNTUR

III B.Sc MICROBIOLOGY (CBCS) SYLLABUS

SEMESTER- V

MB-5308 ENVIRONMENTAL & AGRICULTURAL MICROBIOLOGY

**TOTAL HOURS: 60**

**CREDITS: 3**

**Learning outcomes:**

- Students learn and understand the role of microbes in biogeochemical cycling ,crop improvement by using biofertilizers and biopesticides,
- They will understand the application and appreciate the role of microbes in bioremediation of heavy metals, degradation of natural substances and xenobiotics.
- They acquired the knowledge about microbes in solid waste and sewage management, microbial assessment of water quality.

**UNIT - I**

**No. of hours: 11**

Terrestrial Environment: Soil profile and soil microflora

Aquatic Environment: Microflora of fresh water and marine habitats

Atmosphere: Aeromicroflora and dispersal of microbes

Extreme Habitats: Extremophiles: Microbes thriving at high & low temperatures, pH, high hydrostatic & osmotic pressures, salinity, & low nutrient levels.

**UNIT – II** No. of hours: 14

Role of microorganisms in nutrient cycling (Carbon, nitrogens).

Treatment and safety of drinking (potable) water, methods to detect portability of water samples: (a) standard qualitative procedure: presumptive test/MPN test, confirmed and completed tests for faecal coliforms (b) Membrane filter technique. Microbial interactions – mutualism, commensalism, antagonism, competition, parasitism, predation.

### UNIT – III

No. of hours: 11

Outlines of Solid Waste management: Sources and types of solid waste, Methods of solid waste disposal (composting and sanitary landfill).

Liquid waste management: Composition and strength of sewage (BOD and COD), Primary, secondary (oxidation ponds, trickling filter, activated sludge process and septic tank) and tertiary sewage treatment.

### UNIT – IV

No. of hours: 11

Plant Growth Promoting Microorganisms - Mycorrhizae, Rhizobia, *Azospirillum*, *Azotobacter*, *Frankia*, phosphate-solubilizers and Cyanobacteria.

Outlines of biological nitrogen fixation (symbiotic, non-symbiotic).

Biofertilizers- *Rhizobium*.

### UNIT – V

No. of hours: 13

Concept of disease in plants. Symptoms of plant diseases caused by fungi, bacteria, and viruses.


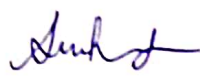
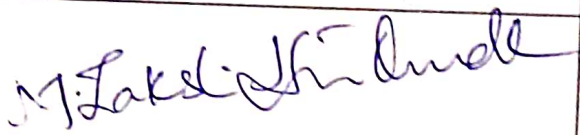
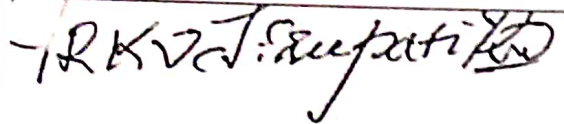
Plant diseases - groundnut rust, Citrus canker and tomato leaf curl.

Principles of plant disease control.

**Additional module** (not to be included in exam); Effectors of Phytosystems towards Plant pathogens.

## Certificate

This is certify that for the academic year 2020-2021 the syllabi, model question papers and blue prints for theory exams, practical exam pattern, pattern of mid semester exams, internal marks allotment, credit system for I,II,III,IV,V&VI Semesters, panel of examiners and paper setters were approved by the Board of Studies. Other activities of the department like workshop / guest lectures, field trips, Certificate course etc., were also approved after thorough discussion in Board of Studies meeting which was held on 10-12-20 at 02:30 PM in Dept. of Microbiology, Govt. College for Women (Autonomous), and Guntur and recommend the same for the approval in academic council.

S.No	Name	Designation	Signature
1.	Smt. N.Praveena kumari, Asstprofessor&I/c.Dept.of Microbiology,GCW(A), Guntur	Chair Person	
2.	Dr. K. Sucharitha Asstprofessor Dept.ofMicrobiology, GCW (A), Guntur	Member	
3.	Smt.M.LakshmiHimaBindhu Lecturer,Dept.of Microbiology, GCW (A), Guntur	Member	
4.	Dr. Y.R.K.V. Tirupati Rao Assistant Professor(Adhoc) Dept. of Botany and Microbiology. Acharya Nagarjuna University, Guntur 9490820998	University Nominee	

5.	Dr.A.Padmavathi HOD of Microbiology and Biochemistry, CH.S.D.ST.Therisa's College for Women (A) ELURU.	Subject Expert	<i>on d anai</i>
6.	Dr. K. Aruna Asst professor ASD Govt Degree College, Kakinada		<i>Aruna</i>
7.	Dr. D. V. Ramana Reddy Senior scientist, Agricultural Research Station, Amravati 9490776084	Principal Scientist	<i>D. V. Ramana Reddy</i>
8.	Ms. M. Prakruthi	Alumni	<i>M. Prakruthi</i>

*V.R. Prabhu*  
Principal

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Jurisdiction of Acharya Nagarjuna  
University, Guntur)**



**DEPARTMENT OF ECONOMICS**

**2020-2021**



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PROCEEDINGS OF THE PRINCIPAL  
Present Dr. V.R. Jayathina Kumari

Sub - Conduction of BoS Meeting for the Academic Year 2020-2021-Reg

Ref - Letter from Academic Coordinator. Lr. No. GCWIA/ACAD/2020-2021 - BoS (2020-2021) - 3/08/01-12-2020.

In Purvuance of the UGC Guidelines and as per the reference cited above, all the in-charges of the Department are requested to identify the gaps in the curriculum and do needs analysis in the concern subjects and finalize the syllabus for the academic year 2020-2021 after thorough discussion with the members of the department and proceed for the conduction of Board of Studies Meeting.

Prior to this the in-charges are also requested to constitute BoS committees and submit the list of BoS members to the academic council on or before 25/08/2020.

Copy to,

1. The in-charges of all the Departments
2. The Academic Coordinator
3. IQAC Coordinator
4. Controller of Examinations.

Principal  
V.R. Jayathina Kumari  
5/12/2020

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**GUNTUR.**

## 2. Aims and learning outcomes

**Aim:** The objective of this course is to

- Provide high quality education in Economics & Financial economics within environment committed to excellence in teaching.
- Provide intellectual challenging environment for the overall development of the students.
- Introduce wide range of innovative teaching and learning methods.
- Equip students with wide range of Economics & Financial Economic skills in problem solving, computation, presentation.
- Develop analytical and critical thinking by introducing creative assignments.
- Provide secure foundation in Economics & Financial Economics.
- Be familiar with additional Economics & Financial Economics techniques.
- In every module and in every semester students are aimed at the learning, understanding to improve knowledge and skills on the syllabus prescribed.
- Black board, charts power point presentation, OHP, News papers etc., can be used as Teaching Aids.

**Learning outcomes:**

- Should be able to understand large complex concepts (theorems) and their interrelationships.
- Should be able to understand and reproduce main results and proofs of these courses.
- Should be able to know the definitions and able to work with this definitions.
- Should be able to apply the concepts they learned.
- Ability to solve problems, ability to write Economics arguments should be increased.
- Problems solving strategies, methods and computational skill should be improved.

ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION  
BA Economics Syllabus under CBCS w.e.f. 2015-16 (Revised in April 2016)

I Year B. A. Programme (UG) Courses – Under CBCS Semester – I  
Paper – I (Core Paper) Micro Economic Analysis

**Module-1: Economic Analysis and Methodology**

Scarcity and Choice as fundamental problems of economics - Opportunity Cost - Production Possibilities Curve - Micro and Macro Analysis - Micro economic analysis – Scope and Importance -Principles of Microeconomics : Allocation of Resources - Optimization, Equilibrium and Marginal analysis -Rationality Principle the concept of Welfare

**Module -2: Theory of Consumption**

Concept of Demand -Factors determining demand - Law of Demand - reasons and exceptions - Elasticity of Demand -Cardinal and Ordinal utility - Indifference Curve analysis : Properties of Indifference curves, Indifference Curve Map -Marginal Rate of Substitution Budget Line - Changes -Consumer Equilibrium under Indifference Curve Analysis – Consumers' Surplus and Indifference Curve Analysis

**Module -3: Theory of Production**

Concept and Objectives of Firm - Production Function : Cobb- Douglas Production Function -Law of Variable Proportions -Laws of Returns to Scale - Economies of large scale Concepts of Cost - Total, Average and Marginal Costs - Law of Supply - Concept of Revenue : Total, Average and Marginal Revenues - Relation between Average and Marginal Revenues and elasticity of Supply

**Module-4: Theory of Exchange**

Concepts of Market : Criteria for Classification of Markets - Perfect Competition– Conditions, Price and Output determination ; Monopoly : Conditions, Price and Output Determination - Price Discrimination; Monopolistic Competition - Assumptions - Price and output determination - Selling Costs ; Oligopoly - Types- Kinky demand curve and Price rigidity

**Module - 5: Theory of Distribution**

The concepts of Functional and Personal Distribution of Income - Marginal Productivity Theory of Distribution - Modern Theory of Distribution -Concept of Rent - Ricardian Theory of Rent – Marshall's concepts of Economic Rent and Quasi Rent; Theories of Wage Determination: Subsistence Theory and Standard of Living Theory - Modern Theory of Wages; Classical Theory of Interest -Loanable Funds Theory of Interest -Liquidity Preference Theory of Interest; Theories of Profit: Risk and Uncertainty, Dynamic and Innovations Theories.

**Reference Books:**

1. A. Koutsoyiannis, *Modern Microeconomics* – Macmillan, London.
2. A. W. Stonier and D.C. Hague, *A Text book of Economic Theory* - ELBS & Long man Group, London.
3. H. L. Ahuja, *Advanced Economic Theory*, S. Chand, 2004.
4. P. N. Chopra, *Principles of Economics*, Kalyani Publishers, Ludhiana, 2018.
5. H.S. Agarwal: *Principles of Economics*.
6. P.A Samuelson & W.D. Nordhaus - *Macroeconomics*, Tata McGraw Hill, 18/e, 2005
7. M. L. Seth, *Microeconomics*, Lakshmi Narayan Agarwal, 2006.
8. D.M. Mithani & G.K. Murthy, *Fundamentals of Business Economics*, Himalaya Publishing, 2007.
9. *Telugu Academi Publications on Microeconomics*.

TEACHER IN CHARGE  
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GUNTUR, A.P. 522 001

V.R. Jyoti  
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**SEMSTER-V**  
**III B.A FINANCIAL ECONOMICS (2021-22)**  
**PAPER- VI (b) optional**  
**TITLE: ECONOMICS OF INSURANCE**

**MODULE-I: INTRODUCTION**

Economic security: Human quest for economic security through time, exposure to losses, role of insurance – Definition of Insurance Risk pooling Risk transfer, economic and legal perspectives social Vs Private Insurance – Life Vs Non life Insurance – classification of life, health and general insurance policies.

**MODULE-II: RISK:**

Fundamentals of uncertainty and risk: pure risk and speculative risk, expected utility and decision making under uncertainty - expected utility and demand for insurance - moral hazard and insurance demand.

**MODULE-III RISK MANAGEMENT**

Concept of risk management - Essentials of risk management - elements of risk – management , risk assessment , risk control and risk financing - Worldwide risk sharing - Concept of reinsurance - Fundamentals of reinsurance - Types of reinsurance - Distribution systems - Reinsurance markets in developing countries.

**MODULE-IV : ESSENIALS OF LIFE AND HEALTH INSURANCE**

Fundamentals of life and health insurance function of life and health insurance, mathematical basis of life insurance plans of life insurance, legal aspect of life insurance - Provisions of polices - Selection and classification of risk

**MODULE\_V BASIES OF PREMIUM CONSTRUCTION :**

Basic of premium construction Valuation and distribution of surplus – Individual Health Insurance, users and type of evaluation, principles of underwriting of life and health insurance group insurance and superannuating schemes set up and management of insurance companies.



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**B. A. ECONOMICS**  
**III Year B. A. Programme (UG) Courses – Under CBCS**  
**Semester – V**

**Paper – V (Core Paper)**  
**Economic Development and Indian Economy**

**Module - 1**

Concept of Economic growth- Distribution between Economic Growth and development- measurement of Economic development – PQLI, HDI, GDI, HPI- characteristic features of underdeveloped economy- characteristic- features of developed economy- factors influence economic development

**Module – 2**

Theories of Economic Growth – Rostow- balanced and unbalanced, vicious circle of poverty – Harrod Domar – choice of techniques labour intensives, capital intensive – population –size and growth trends theory of demographic transition – causes of rapid growth population and remedial measures – population policy 2000

**Module – 3 Poverty, unemployment and Planning**

Types of poverty – causes of poverty- concepts of poverty – poverty alleviation policies in India – types of unemployment – causes of unemployment – occupational structure – major employment programmes – MGNREGS objectives of Economic planning in India – causes for failures of Indian plans deficit finance target and achievement of five years plans – NITI Aayog

**Module – 4 Public finance and International Trade**

Sources of Public Revenue in Indian and Andhra Pradesh – Tax reforms 1991- Public Expenditure growth and management – public debt problems and issues – fiscal policy – objectives FRBM act- federalism financial commission – GST

**Module – 5 Money and Banking**

Barter system – Indian money market (organised- unorganised)- commercial Banks- role of commercial Banks- development , Nationalisation , role – RBI- functions- Monetary policy- measures to strengthen Indian money market – insurance role- IRDA- capital market – role -SEBI

**REFERENCES:**

1. Dhingra, I.C - "Indian Economy", Sultan Chand, 2014.
2. Ruddar Dutt and K.P.M. Sundaram - "Indian Economy", S.Chand & Co., 2015.
3. G.M.Meier -"Leading Issues in Economic Development", Oxford University Press, New York.
4. M.P.Todaro - "Economic Development", Longman, London 6/e, 1996.
5. Reserve Bank of India - Hand book of Statistics on Indian Economy (Latest).
6. S.K.Misra & V,K,Puri - "Indian Economy", Himalaya Publishing House, 2015.
7. R.S.Rao, V.Hanumantha Rao & N.Venu Gopal (Ed) - Fifty Years of Andhra Pradesh (1956-2006), Centre for Documentation, Research and Communications, Hyderabad, 2007.
8. G.Omkarnath - Economics - A Primer for India - Orient Blackswan, 2012.
9. Benjamin Higgins - Economic Development
10. Telugu Academy Publications.
11. Dr. Ch.S.G.K. Murthy, Indian Economy - Gitam University



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**B. A. ECONOMICS**  
**III Year B. A. Programme (UG) Courses – Under CBCS**  
**Semester – VI**  
**Paper – VII-(A) (Elective Paper VII-(A))**  
**AGRICULTURAL ECONOMICS**

**Module-1**

Nature and Scope of Agricultural Economics. Factors affecting agricultural development: technological, institutional and general. Interdependence between agriculture and industry.

**Module-2**

Concept of production function: input-output and product relationship in farm production.

**Module-3**

Growth and productivity trends in Indian agriculture with special reference to Andhra Pradesh. Agrarian reforms and their role in economic development.

**Module-4**

Systems of farming, farm size and productivity relationship in Indian agriculture with special reference to Andhra Pradesh- New agriculture strategy and Green revolution: and its Impact

**Module-5**

Emerging trends in production, processing, marketing and exports; policy controls and regulations relating to industrial sector with specific reference to agro-industries in agri-business enterprises.

**RECOMMENDED / REFERENCE BOOKS**

1. Sadhu An, Singh Amarjit and Singh Jasbir (2014), Fundamentals of Agricultural Economics, Himalaya Publishing House, Delhi
2. Lekhi RK and Singh Joginder, Agricultural Economics, Kalyani Publishers
3. Bhaduri, A. (1984), The Economic Structure of Backward Agriculture, Macmillan, Delhi.
4. Bilgrami, S.A.R. (1996), Agricultural Economics, Himalayas publishing house, Delhi.
5. Dantwala, M.L. et.al (1991), Indian Agricultural Development Since Independence, Oxford & IBH, New Delhi.
6. Government of India (1976), Report of the National Commission on Agriculture, New Delhi. 5. Government of India, Economic Survey (Annual), New Delhi.
7. Gualti, A. and T. Kelly (1999), Trade Liberalisation and Indian Agriculture Oxford University Press, New Delhi



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**B. A. ECONOMICS**  
**III Year B. A. Programme (UG) Courses – Under CBCS**  
**Semester – VI**  
**Paper – VIII-A; Cluster Elective –A: Agribusiness**  
**Paper VIII-A-3: Agricultural Input Marketing**

**Module-1**

Agri input marketing – Meaning and importance – distinctive features of Agri. Input marketing – Distribution channels of agri. Inputs – Private, Government, Co-operative and Joint sector. Agri inputs promotional programme – concepts and techniques.

**Module-2**

Issues in seed marketing – determinants of seed demand – private sector contribution – public sector support to private sector - Distinctive features of Seed Marketing vis – a – vis other Input Marketing – strengths and weaknesses on Indian seed industry.

**Module-3**

Fertilizer industry scenario – public, private, co-operative and joint sector role – fertilizer production consumption, and imports – fertilizer marketing characteristics. Biofertilizers – its role and scope – major constraints involved – production level – market level – field level. Marketing network/ channels.

**Module-4**

Pesticide industry – an overview – nature of industry growth – consumption crop wise, area wise – demand and supply – market segmentation.-IPM concept development – bio pesticides – its role and scope.

**Module-5**

Agricultural mechanization – benefits and importance and future priorities – scenario of farm implements and machinery sector – economic advantage of mechanization – contribution of agricultural mechanization – Need for the development of agricultural machinery and implements to suit the local resource endowments.

**References:**

1. Acharya SS & Agarwal NL 2004, Agricultural Marketing in India – Oxford & IBH.
2. Sharma Premjit 2008, Marketing of Seeds – gene Tech Books, New Delhi.
3. Marketing of the Agri. Inputs – IIMA publications.
4. State of the Indian Farmer - Input Management, Ministry of Agriculture, GOI, Academic Foundation, New Delhi-2004



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**. A. ECONOMICS**  
**III Year B. A. Programme (UG) Courses – Under CBCS**  
**Semester – V**  
**Paper – VI (Core Paper)**  
**Indian and Andhra Pradesh Economy**

**Module - 1**

Indian Agriculture - Importance of Agriculture in India - Agrarian structure and relations- Factors determining Productivity- Agricultural Infrastructure - Rural credit - Micro Finance - Self Help Groups (SHGs) - Agricultural Price policy- concept of Crop Insurance - Food Security.

**Module - 2**

Structure and growth of Indian Industry - Industrial policies of 1956 & 1991 Meaning of Micro small and Medium Enterprises (MSMEs)- Problems and Prospects of small scale Industries in India.

**Module - 3**

Disinvestment in India - FEMA - Foreign direct investment - Services Sector in India – Reforms in Banking and Insurance -, IT, Education and Health.

**Module - 4**

Planning in India Economy - Objectives of Five year plans - Review of Five year Plans - Current Five year plan- NITI Aayog

**Module - 5**

Andhra Pradesh Economy - Population - GSDP - Sector Contribution and trends - IT – Small Scale Industry - SEZs.

**REFERENCES:**

1. Dhingra, I.C - "Indian Economy", Sultan Chand, 2014.
2. Ruddar Dutt and K.P.M. Sundaram - "Indian Economy", S.Chand & Co., 2015.
3. G.M.Meier - "Leading Issues in Economic Development", Oxford University Press, New York, 3/e.
4. M.P.Todaro - "Economic Development", Longman, London 6/e, 1996.
5. Reserve Bank of India - Hand book of Statistics on Indian Economy (Latest).
6. S.K.Misra & V,K,Puri - "Indian Economy", Himalaya Publishing House, 2015.
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8. G.Omkarnath - Economics - A Primer for India - Orient Blackswan, 2012.
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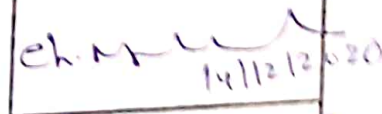
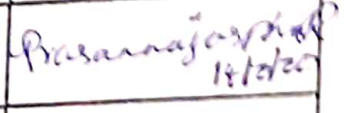
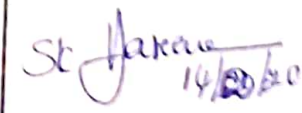
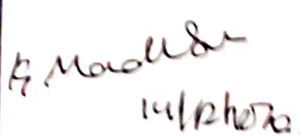
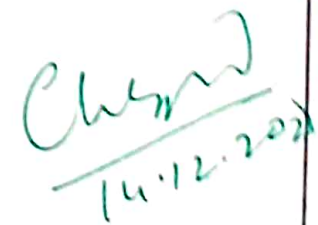

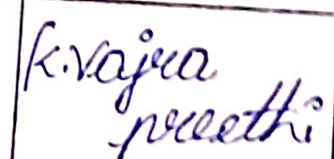
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PRINCIPAL  
GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR.

# CERTIFICATE

The syllabus and model question papers including blueprint in Economics & Financial  
- Economics subject for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> year B.A., Courses for the semesters I,II,III,IV,V & VI  
for the academic years 2020-21, list of examiners and paper setters for 2020-21,  
departmental activities which contains papers are provided In the board of studies meeting  
held on 14.12.2020 at 11.00 a.m in the department of Economics.

Sl.No	Name of the Member	Post	Signature
1	Dr. G.Swarna Latha M.A.,M.Phil., Ph.D. Lec. In Telugu Department Incharge Department of Economics	Chairman	 14/12/2020
2	Ch. Nagamalleswari, M.A., Lec. In Economics	Member	 14/12/2020
3	Dr. R. Prasanna Josephen, M.A., M.phil, Ph.D. Lec. In Economics(G)	Member	 14/12/2020
4	Smt. Sk. Haseena M.A. Lec. In Economics(G)	Member	 14/12/2020
5	Prof. K.Madhu Babu, M.A., Ph.D. Head of the Department of Economics, Acharya Nagarjuna University, Guntur. Cell.No.9441126105	University Representative	 14/12/2020
6	Dr. Ch.Surya Prakasa Rao, M.A., Ph.D, Head of the Dept. of Economics, P.B.Sidhartha College of Arts & Science, Vijayawad. Cell.No.9346229847	Subject Expert	 14.12.2020
7	Dr. K. Venu Madhava Rao, M.A., Ph.D., Associate professor & HOD Dept of Economics, ANR College (A), Gudivada, Krishna Dist. Cell. No. 9440510229	Subject Expert	 14/12/2020
8	Ms. K. Vajra Preethi B.A(FE)., Economics 2018-21 Govt. College for women, Guntur.	Alumna	 K.Vajra preethi

DEPARTMENT-ECONOMICS  
PROGRAMME/COURSE OUTCOMES

PROGRAMME OUTCOMES

BA-100: B A Programmes

After completing the B A Programme, the student

**1. 101: History-Politics-Economics**

P Os:

- Develops into a political critique
- Develops historical outlook in all aspects
- Learns to participate in economical surveys

P S O: Develops Critical Thinking and awareness about society and its transactions

**2. 103: Economics-Politics-Communicative English**

P Os:

- Develops Functional English Language Skills
- Provides Higher Order Thinking skills
- Prepares for higher education

P S O: Develops professional skills to become a news reporter or a teacher or an administrator

**3. 105: Psychology-Economics-Political Science**

P Os:

- Understands the value of Economics
- Knows how to assess people
- Develops insights about political conditions

P S O: Develops professional skills of a counselor

**4. 106: History-Politics-Financial Economics**

P Os:

- Develops Historical knowledge by analyzing multiple cultures



**Govt. College for Women  
(AUTONOMOUS) – GUNTUR 1942 (Estd.)  
Centre with Potential for Excellence**

**NAAC ACCREDITED 'B'' GRADE**

**2021 - 2022**

**BOS MINUTES MEETING**

**On**

**16.09.2021**

**Department of Political Science**

**Submitted By**

***Mr. B.LALITABABU & Smt.BEERA CURIE***

GOVT. COLLEGE FOR WOMEN (A), GUNTUR, SAMBASIVAPETA, GUNTUR - 522 001

Dr. V.R. Jyotsna Kumari,

Tele : 0863 - 2220093

Fax : 2230149

No. GCW(A)/ACAD/2021-22 -Lr ..2-BOS (21-22)

Dated :24-8-2021

**PROCEEDINGS OF THE PRINCIPAL**

Present : Dr. V.R. Jyotsna Kumari, M.Com., Mphil., Ph.D

**Sub :** Framing syllabus for Three Year BA,, B.Sc., & B.Com, needs analysis, Submission of BOS nominees and Subject Experts- Reg.,

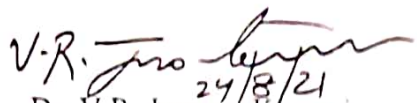
**Ref :** Lr. No : GCW(A)/ACAD/2021-22 - BOS (21-22) -Lr.1 / dt.24-8-2021 from the Academic Co-ordinator-reg

In pursuance of the UGC guidelines and as per the reference cited above, all the In-Charges of the Departments are requested to identify the gaps in the curriculum and do needs analysis in the concerned subjects, after thorough discussion with the members of the department and prepare for the conduct Board of Studies for the Academic Year 2021-22

The Departments are also directed to give the list of BOS members to the Academic Council on or before 31-08-2021

Copies to:

1. The In-Charges of the Department
2. Academic coordinator
3. IQAC coordinator
4. Controller of Examinations

  
24/8/21  
Dr. V.R. Jyotsna Kumari  
PRINCIPAL  
GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR.

## Aims & Objectives of this Course

- Provide high quality education in political science.
- Provide conducive environment for the overall development of the students and enhance their intellectual capabilities.
- Introduce wide range of political science skills and analytical capabilities.
- Develop independent thinking and the ability to understand concepts and theories in political science.
- Develop analytical and critical thinking to prepare creative assignments.
- Provide secure foundation to get employment.
- Be familiar with recent trends in political science.

### Learning out comes:

- ❖ Should be able to understand concepts and theories in political science.
- ❖ Should be able to reproduce, whatever they learn through curricular & co- curricular activities properly.
- ❖ Should be able to have application oriented skill.
- ❖ Should be able to know the importance of the existence of state as well as laws.
- ❖ Should be able to become a responsible citizen.
- ❖ Should develop an rational perceptive in analyzing regional, national and international issues
- ❖ Should be able to develop decision making capabilities in policy making and other political issues.

**B.A. POLITICAL SCIENCE**  
**FIRST YEAR FIRST SEMESTER (Under CBCS w.e.f. 2020-21)**  
**Course-I: INTRODUCTION TO POLITICAL SCIENCE**

**Learning Outcomes:**

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

- Recall the previous knowledge about Political Science and understand the nature and scope, traditional and modern approaches of Political Science.
- Understand concepts intrinsic to the study of Political Science.
- Have solid theoretical understanding of Rights and its theories along with the basic aspects of certain political ideologies.
- Apply the knowledge to observe the field level phenomena

<b>UNIT-I :</b>	<b>INTRODUCTION</b>
	1. Definition, Nature, Scope and Importance of Political Science – Relations with allied disciplines (History, Economics, Philosophy and Sociology)
	2. Approaches to the study of Political Science: Traditional Approaches-Philosophical, Historical. Modern Approaches-Behavioral and System Approach.
<b>UNIT-II :</b>	<b>STATE</b>
	1. Definition of the State, Elements of the State, Theories of Origin of the State-(Divine Origin, Force, Evolutionary and Social Contract).
	2. Concepts of Modern State and Welfare State.
<b>UNIT-III :</b>	<b>CONCEPTS OF POLITICAL SCIENCE</b>
	1. Law, Liberty, Equality.
	2. Power, Authority and Legitimacy.
<b>UNIT-IV :</b>	<b>THEORIES OF RIGHTS</b>
	1. Meaning, Nature and Classification of Rights
	2. Theories of Rights.
<b>UNIT-V :</b>	<b>POLITICAL IDEOLOGIES</b>
	1. Liberalism, Individualism, Anarchism.
	2. Socialism, Marxism and Multiculturalism.

**B.A. POLITICAL SCIENCE FIRST YEAR  
SECOND SEMESTER (Under CBCS w.e.f 2020-21  
Course-2: BASIC ORGANS OF THE GOVERNMENT**

**Learning Outcomes:**

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

- Understand the Origin and Evolution of the concept of Constitutionalism and classification of Constitutions.
- Acquaint themselves with different theories of origin of State.
- Understand and analyses organs and forms of Governments along with a deep insight into the various agents involved in the political process.
- Apply the knowledge to analyse and evaluate the existing systems

<b>UNIT-I :</b>	<b>CONSTITUTION</b>
	1. Meaning, Definition, Origin and Evolution of Constitution.
	2. Classification of the Constitutions-Written and Unwritten; Rigid and Flexible.
<b>UNIT-II :</b>	<b>ORGANS OF THE GOVERNMENT</b>
	1. Theory of Separation of Powers-B.D.Montesquieu.
	2. Legislature-Unicameral and Bicameral-Power and Functions, Executive-Types,Powers and Functions. Judiciary-Powers and Functions.
<b>UNIT-III :</b>	<b>FORMS OF GOVERNMENT</b>
	1. Unitary and Federal forms of Governments-Merits and Demerits.
	2. Parliamentary and Presidential forms of Governments- Merits and Demerits.
<b>UNIT-IV :</b>	<b>DEMOCRACY</b>
	1. Meaning, Definition, Significance, Theories and Principles of Democracy.
	2. Types of Democracy: Direct and Indirect Democracy-Methods, Merits and Demerits-Essential Conditions for Success of Democracy.
<b>UNIT-V :</b>	<b>POLITICAL PARTIES, PRESSURE GROUPS AND PUBLIC OPINION</b>
	1. Meaning, Definition and Classification of Political Parties: National and Regional-Functions of Political Parties.
	2. Pressure Groups (Interest Groups)- Meaning, Definition, Types, Functions and Significance of Public Opinion.

**B.A. POLITICAL SCIENCE SECOND YEAR  
THIRD SEMESTER (Under CBCS w.e.f 2020-21  
Course-3: INDIAN GOVERNMENT AND POLITICS**

**Learning Outcomes:**

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

- Acquire knowledge about the historical background of Constitutional development in India, appreciate philosophical foundations and salient features of the Indian Constitution.
- Analyze the relationship between State and individual in terms of Fundamental Rights and Directive Principles of State Policy.
- Understand the composition of and functioning of Union Government as well as State Government and finally
- Acquaint themselves with the judicial system of the country and its emerging trends such as judicial reforms.

<b>UNIT-I :</b>	<b>SOCIAL AND IDEOLOGICAL BASE OF THE INDIAN CONSTITUTION</b>
	1. Constitutional Development in India during British Rule-A Historical Perspective with reference to Government of India Acts, 1909, 1919 and 1935.
	2. Constituent Assembly-Nature, Composition, Socio-Economic, Philosophical Dimensions and Salient Features of the Indian Constitution.
<b>UNIT-II :</b>	<b>INDIVIDUAL AND STATE</b>
	1. Fundamental Rights, Directive Principles of State Policy and Fundamental Duties-Differences between Fundamental Rights and Directive Principles of State Policy.
	2. The 'Doctrine of Basic Structure of the Constitution' with reference to Judicial Interpretations and Socio-Political Realities.
<b>UNIT-III :</b>	<b>UNION EXECUTIVE</b>
	1. President of India-Mode of Election, Powers and Functions.
	2. Parliament-Composition, Powers and Functions, Legislative Committees, Prime Minister and Council of Ministers-Powers and Functions, Role in Coalition Politics
<b>UNIT-IV :</b>	<b>STATE EXECUTIVE</b>
	1. Governor-Mode of Appointment, Powers and Functions.
	2. Legislature-Composition, Powers and Functions, Chief Minister and Council of Ministers-Powers and Functions
<b>UNIT-V :</b>	<b>THE INDIAN JUDICIARY</b>
	1. Supreme Court-Composition and Appointments, Powers and Functions or Jurisdiction of the Supreme Court, Judicial Review, Judicial Activism.
	2. High Court-Composition, Powers and Functions, Debates on the mode of appointment of Judges-National Judicial Appointments Commission and Judicial Reforms.

**B.A. POLITICAL SCIENCE SECOND YEAR  
FOURTH SEMESTER (Under CBCS w.e.f 2020-2)**

**Learning Outcomes:**

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

- Know and understand the federal system of the country and some of the vital contemporary emerging issues.
- Evaluate the electoral system of the country and to identify the areas of electoral reforms.
- Know the constitutional base and functioning of local governments with special emphasis on 73<sup>rd</sup> & 74<sup>th</sup> Constitutional Amendment Acts.
- Understand the dynamics of Indian politics, challenges faced and gain a sensitive comprehension to the contributing factors.
- Apply the knowledge and critically comprehend the functioning of some of the regulatory and governance institutions.
- Propose theoretical outline alternate models

<b>UNIT-I :</b>	<b>FEDERAL PROCESSES</b>
	1. Features of Indian Federal System- Centre-State Relations- Legislative, Administrative and Financial
	2. Emerging Trends in Centre-State Relations-Restructuring Centre-State Relations-Recommendations of Sarkaria Commission, M.M.Punchi Commission
<b>UNIT-II :</b>	<b>ELECTORAL PROCESSES</b>
	1. The Election Commission of India, Powers and Functions.
	2. Issues of Electoral Reforms, Voting Behaviour-Determinants and Problems of Defections.
<b>UNIT-III :</b>	<b>GROSSROOT DEMOCRACY-DECENTRALISATION</b>
	1. Panchayat Raj system-Local and Urban Governments-Structure, Powers and Functions.
	2. Democratic Decentralization-Rural Development and Poverty alleviation with reference to 73 <sup>rd</sup> and 74 <sup>th</sup> Constitutional Amendment Acts, Challenges and Prospects.
<b>UNIT-IV :</b>	<b>SOCIAL DYNAMICS AND EMERGING CHALLENGES TO INDIAN POLITICAL SYSTEM</b>
	1. Role of Caste, Religion, Language and Regionalism in India.
	2. Politics of Reservation, Criminalization of Politics and Internal threats to Security.
<b>UNIT-V :</b>	<b>REGULATORY AND GOVERNANCE INSTITUTIONS</b>
	1. NITI Ayog, Finance Commission, Comptroller and Auditor General of India.
	2. Central Vigilance Commission, Central Information Commission, Lokpal and Lokayukta.

**B.A. POLITICAL SCIENCE SECOND YEAR  
FOURTH SEMESTER (Under CBCS w.e.f 2020-21)**

**Course 5:WESTERN POLITICAL THOUGHT**

**Learning Outcomes:**

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

- Understand the fundamental contours classical, western political philosophy, basic features of medieval political thought and shift from medieval to modern era.
- Understand the Social Contract Theory and appreciate its implications on the perception of State in terms of its purposes and role.
- Acquaint with the Liberal and Marxist philosophy and analyze some trends in Western Political Thought.
- Critically analyse the evolution of western political thought

<b>UNIT-I :</b>	<b>ANCIENT GREEK POLITICAL THOUGHT</b>
	1. Plato-Rule of Philosopher Kings-Theory of Justice-Ideal State and Education
	2. Aristotle-Theory of State-Classification of Governments-Citizenship, Slavery and Theory of Revolutions.
<b>UNIT-II :</b>	<b>MEDIEVAL AND MODERN POLITICAL THOUGHT</b>
	1. St.Augustine-Theory of Two Cities.
	2. NiccoloMachiavelli-State and Statecraft.
<b>UNIT-III :</b>	<b>CONTRACTUAL POLITICAL THOUGHT</b>
	1. Thomas Hobbes- Social Contract and Absolute Sovereignty.
	2. John Locke- Human Nature, State of Nature, Social Contract, Natural Rights and Limited Government
	3. Jean Jacques Rousseau- Human Nature, State of Nature, Social Contract, General Will and Popular Sovereignty
<b>UNIT-IV :</b>	<b>UTILITARIAN POLITICAL THOUGHT</b>
	1. Jermey Bentham-Theory of Utility, Law and Reforms.
	2. J.S.Mill-Theory of Liberty and Representative Government.
<b>UNIT-V :</b>	<b>MARXIST POLITICAL THOUGHT</b>
	1. Karl Marx-Dialectical Materialism, Theory of Surplus Value and Class Struggle.
	2. Antonio Gramsci-Hegemony and Civil Society.

GOVERNMENT COLLEGE FOR WOMEN (A), GUNTUR

Department of Political Science

III BA – SEM –V (FOR 2019 - 2022 BATCH)

MODULE – V

PAPER V (CORE): INDIAN POLITICAL THOUGHT – (POL5102)

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**UNIT-I**

1. Sources features of ancient Indian Political Thought
2. Manu – Varna System
3. Kautilya – Kingship, Mandala Theory

**UNIT-II**

1. Raja Rammohan Roy – Religious and social Reforms
2. Dadabai Nauroji – drain theory and poverty

**UNIT-III**

1. M.G. Ranade – Role of the state and religious reforms
2. Ramabai Pandit – Women Empowerment

**UNIT-IV**

1. Gandhi – Swaraj and satyagraha
2. Jawaharlal Nehru – Democratic Socialism

**UNIT-V**

1. Dr. B.R. Ambedkar – Annihilation of caste system
2. M.N. Roy – Radical humanism

**PAPER-VIII-(CLUSTER ELECTIVE-C3):\_CONTEMPORARY GLOBAL ISSUES –  
POL8103C3**

.....

**UNIT-I**

1. Globalization
2. Economic – Globalization
3. Political - Globalization

**UNIT-II**

1. International Monetary Fund - Nature role and functions
2. International Bank for Reconstruction and Development – Nature, role and functions

**UNIT-III**

1. World Trade Organization
2. The role of Nation State in the context of Globalization

**UNIT-IV**

1. Consequences of Globalization – rise of inequalities within and across nations
2. Ecological Issues: International Agreements on climate change



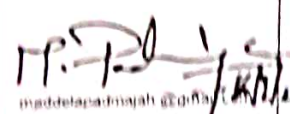
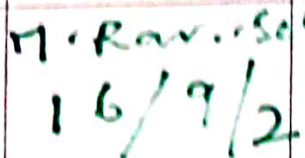


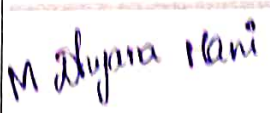
**UNIT-V**

1. Terrorism – Introduction, features
2. International Terrorism: Non – State actors and State Terrorism

**LIST OF STAFF AND B.O.S.MEMBERS**

The Board of Studies of Political Science Department of this college was constituted with the following members for the Academic Year 2021 - 2022. The meeting of B.O.S. for Political Science was conducted on 16.09.2021 in the department of Political Science.

**Members Present:**

SL. NO	NAME OF THE MEMBER	DESIGNATION	ADDRESS	SIGNATURE
1.	<i>Dr. G. Swarnalatha</i> M.A., Ph.D.	Chair Person	In-charge of Political Science Asst. Professor in Telugu Dept. GCW (A) GUNTUR	 Gottimukhalak630@gmail.com 9951095636
2.	<i>P. Nageswara Rao</i> M.A.	Member	Lecturer in Pol. Science Dept. GCW (A) GUNTUR	 Naag1966@gmail.com 9490326787
3.	<i>Smt. M. Padmaja</i> M.A.	Member	Lecturer in Pol. Science GCW (A) GUNTUR	 maddalapadmajah@gmail.com 7013568328
4.	<i>Prof. M. Ravi Sekhar</i> M.A., Ph.D.	University Nominee	THE DEAN, Social Science & Head of the Department of Pol. Science & Public Admn. Acharya Nagarjuna University, GUNTUR	 16/9/21 9490365981
5.	<i>Dr. Md. Mastan Wali</i> M.A., Ph.D.	Subject Expert	Associate Professor Andhra Muslim College, GUNTUR	 16/9/21 9849024407
6.	<i>Sri K. Joji</i> M.A.	Subject Expert	Associate Professor D.K. Govt. College for Women (A) Nellore	9441220208
7.	<i>Kum. K. Vandana</i> B.A.	Alumnus	Govt. College for Women (A) GUNTUR	 7013766670
8.	<i>Kum.M.Dhyanu Mani</i> Final B.A. (HETP)	Final B.A. Student for 2021-2022	Govt. College for Women (A) GUNTUR	 9014976672

**GOVERNMENT COLLEGE FOR WOMEN (A)**  
**GUNTUR**

NAAC Accredited "B<sup>++</sup>" Grade

(An Autonomous College in the Jurisdiction of  
Acharya Nagarjuna University, Guntur)



**DEPARTMENT OF POLITICAL SCIENCE**

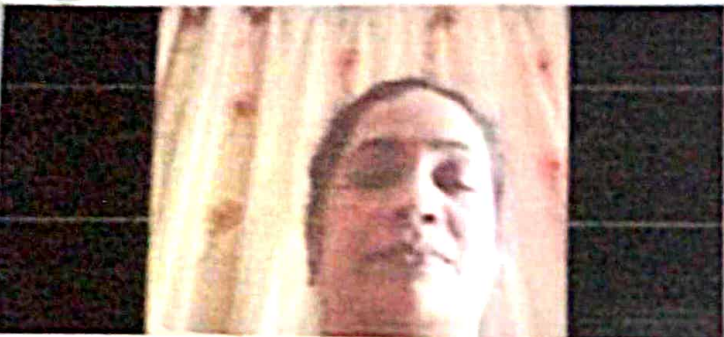
**2020 - 2021**

# Govt. College for Women(A)

## GUNTUR

11:17 AM

### B.O.S. Meeting held on 11-12-2020



Dr. G. Swarna Latha



Maddela Padmaja (host)



p. nageswara rao (me)



Joji Kamatham



cce Dr. Md. Mastan Vali



Prof M. Ravi Sekhar



shanumukhavalli



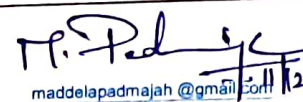
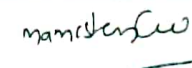

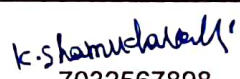


Komaragiri Vandana

## LIST OF STAFF AND B.O.S.MEMBERS

The Board of Studies of Political Science Department of this college was constituted with the following members for the Academic Year 2020 – 2021. The meeting of B.O.S. for Political Science was conducted through Cisco WebEx app on 11.12.2020 in the view of corona situation.

### Members Present:

SL.NO	NAME OF THE MEMBER	DESIGNATION	ADDRESS	SIGNATURE
1.	Dr. G. Swarnalatha M.A., Ph.D.,	Chair Person	In-charge of Political Science Asst. Professor in Telugu Dept. GCW (A) GUNTUR	 Gottimukkala636@gmail.com 11/12/20 9951095636
2.	P. Nageswara Rao, M.A.	Member	Lecturer in Pol. Science Dept. GCW (A) GUNTUR	 11/12/20 Naag1966@gmail.com 9490326787
3.	Smt. M. Padmaja M.A.	Member	Lecturer in Pol. Science GCW (A) GUNTUR	 maddelapadmajah@gmail.com 11/12/20 7013568328
4.	Prof. M. Ravi Sekhar M.A., Ph.D.,	University Nominee	THE DEAN, Social Science & Head of the Department of Pol.Science & Public Admn. Acharya Nagarjuna University, GUNTUR	M. Ravi Sekhar 11/12/20 9490365981
5.	Dr. Md. Mastan Vali M.A., Ph.D.,	Subject Expert	Associate Professor Andhra Muslim College, GUNTUR	 11/12/20 9849024407
6.	Sri K. Joji M.A	Subject Expert	Associate Professor D.K. Govt. College for Women (A) Nellore	 9441220208
7.	Kum. K. Shanmukha Valli B.A.	Alumnus	Govt. College for Women (A) GUNTUR	 7032567898
8.	Kum. K. Vandana FINAL B.A.	Final B.A. Student for 2020-2021	Govt. College for Women (A) GUNTUR	7013766670

GOVERNMENT COLLEGE FOR  
WOMEN GUNTUR(AUTONOMOUS)



DEPARTMENT OF PHYSICS  
&  
ELECTRONICS

DATE OF BOS :: 15 - 12 -2020

**CURRICULAM FOR B.SC. PHYSICS**

**&**

**B.SC. ELECTRONICS**

**FROM**

**2020-2021**

*Recommended by*

*The Board of Studies in Physics and  
Electronics For the approval of the Academic  
Council*

Submitted

by

**DEPARTMENT OF PHYSICS & ELECTRONICS**



**Govt. College for Women**  
(AUTONOMOUS) - GUNTUR, 1942 (Estd.)  
Centre with Potential for Excellence

PROCEEDINGS OF THE PRINCIPAL

Present Dr. V.R. Jyothsna Kumari

Proceedings RC No - BoS (2020-2021) - 1 dated 19-08-2020  
Sub - Conduction of BoS Meeting for I, III and V Semesters Reg.

Ref - Letter from Academic Coordinator, Lr. No. GCW(A)/ACAD/2020-2021 - BoS (2020-2021) - 1 /dt 14-08-2020.

In Pursuance of the UGC Guidelines and as per the reference cited above, all the in-charges of the Department are requested to identify the gaps in the curriculum and do needs analysis in the concern subjects and finalize the syllabus for I, III and V semesters after thorough discussion with the members of the department and proceed for the conduction of Board of Studies Meeting

Prior to this the in-charges are also requested to constitute BoS committees and submit the list of BoS members to the academic council on or before 25/08/2020.

*V.R. Jyothsna Kumari*  
Principal 19/8/2020

PRINCIPAL  
GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR

Copy to,

1. The in-charges of all the Departments
2. The Academic Coordinator
3. IQAC Coordinator
4. Controller of Examinations

**GOVERNMENT COLLEGE FOR WOMEN (A),  
GUNTUR DEPARTMENT OF PHYSICS &  
ELECTRONICS**

**LEARNING OBJECTIVES**

The objective of this course is to

- Provide high quality education in Physics within an environment committed to excellence in teaching.
- Provide intellectual challenging environment for the overall development of the students.
- Introduce wide range of innovative teaching and learning methods.
- Develop independent thinking, skill and the ability to solve the problems in physics.
- Develop analytical reasoning and critical thinking through creative assignments.
- Provide advanced knowledge in Physics to gain excellence in future projects

**Programme outcomes**

- The student who completed the programme develops different professional skills.
- The student can get success in her competitive world
- The students can choose PG courses and can go for research in their fields of interest.
- The students may opt professional courses like BEd .

**Programme Specific Outcomes**

- Student who completed these programmes applies their knowledge for solving different problems relating to science in daily life.
- Develops scientific approach

***COURSE OUTCOMES- PHYSICS***

*Course -1(Mechanics) PHY1302*

- To gain knowledge of mechanics principles, Physical quantities , their representation and relations among them
- To understand the underlying principle of mechanics
- To solve the problems relating to mechanics
- To apply the principles in different fields like rockets,

*Course -2 (Waves and Oscillations) PHY 2302*

- To gain Knowledge about simple harmonic motion, different types of pendulums, different w motions, and oscillations,
- To understand the formulae , principle and phenomena related waves
- To able solve the problems relating to waves and oscillations
- To apply the concept in the real life.

*Course -3(Thermodynamics) PHY3302*

- To gain knowledge about the thermodynamical variables and potentials
- To understand the principles experiments related to thermodynamics
- To gain skill in solve the principles related thermodynamics
- To apply the learned knowledge in their daily life.

- Course – 4(Optics) *PHY4302*
- To gain knowledge about the Optics variables and potentials
  - To understand the principles experiments related to wave nature of light.
  - To gain skill in solve the principles related ray and geometric optics
  - To apply the learned knowledge in their daily life .
- Course– 5(Electricity, Magnetism & Electromagnetics)*PHY5302*
- To gain knowledge of principles and formulae in electricity, Magnetism and electromagn
  - To understand the principles experiments related to electricity, magnetism and electromag
  - To gain skill in solve the problems related to above topics
  - To apply the learned principles and formulae in their daily life
- Course- 6 (Modern Physics)*PHY6302*
- To gain knowledge of Raman experiments ,Debroglie Hypothesis and other Modern developments in Physics
  - To understand the different theories and developments in modern physics like Raman et Uncertainty principle
  - To gain skill in solve the problems related to above topics
  - To apply the principles and formulae learned in their daily life
- Course- 7A (Analog and Digital Electronics) *PHY7302A*
- To gain knowledge of different number systems ,logic gates and their applications in Elec circuits
  - To understand the different combinations of logic gates and their outcomes. ➤ To gain skill in developing electronic circuits by their own
  - To apply the learned concept in use of electronic equipment.
- Course- 7B (Material Science) *PHY7302B*
- To gain knowledge of different materials and their behavior
  - To understand the properties of different types of materials
  - To gain skill in differentiating the materials
  - To apply learned knowledge in their daily life
- Course- 7C (Renewable energy) *PHY7302C*
- To learn about the different natural energy resources on earth
  - To learn the applications of renewable energy sources nowadays
  - To understand the different methods of utilizing renewable sources of energy ➤ To practise the using of renewable energy resources
- Course- 8A1 (Fiber Optic Communication) *PHY8302A1*
- To study the basic concepts of optical fiber communication
  - To understand the use of sensors, detectors and light sources
  - To Study the applications of optical sensors
  - To develop skills in operating the sensors for different purposes
- Course- 8A2 (Electronic Instrumentation) *PHY8302A2*
- To gain knowledge of different measuring apparatus
  - To understand the working of different measurement instruments
  - To study the applications of different amplifiers and analytical instruments in laboratory
  - To gain skill in operating the instruments.

Course- 8A3 (Power Electronics) *PHY8302A3*

- To study the basic concepts of various power semiconductor devices
- To understand the operation of power invertors, rectifiers and choppers
- To study the applications in laboratory
- To develop skills in using the instruments for correct purpose.

Course- 8B1(Fundamentals of Nano Science) *PHY8302B1*

- To gain knowledge of fundamentals of nanomaterials
- To understand the classification of materials
- To understand the application of macromolecules and nanomaterials

Course- 8B2 (Synthesis and Charecterization of nano Materials) *PHY8302B2*

- To understand the techniques of synthesis of nano materials
- To classify different materials
- To understand the preparation techniques
- To develop skills in synthesis and characterization of nanomaterials

Course- 8B3 (Applications of Material Science) *PHY8302B3*

- To study the optical properties of nanomaterials
- To study the applications of nanomaterials
- To recognize the importance of nanoelectronics
- To observe the use of nanomaterials in nanobiotechnology and medical fields

Course- 8C1 (Solar, Thermal and Photo Voltaic Aspects) *PHY8302C1*

- To study the basics of solar radiation and radioactive properties of materials
- To understand the working of solar cells
- To study thermal solar PV applications
- To understand the fabrication of solar cell

Course- 8C2 (Wind, Hydro and Ocean Energies) *PHY8302C2*

- To gain knowledge of different forms of wind
- To recognize the applications of wind energy and tidal energy
- To differentiate different types of energy resources
- To observe different energy production systems

Course- 8C3(Project Work on Renewable Energies) *PHY8302C3*

- To gather information about the project
- To consolidate the information
- To analyze the data
- To submit the report

## ELECTRONICS

Course 1(Basic Circuit Theory):

- To gain knowledge about the basic electronic circuits, theorems and principles involved
- To understand the different components involved in electronic circuit connections
- To gain skill in electronic circuit connections
- To apply the learned knowledge in their daily life

Course 2 (Electronic Devices and Circuits):

- To gain knowledge about the basic electronic devices used for circuit connections

GOVT.COLLEGE FOR WOMEN, GUNTUR DEPT. OF PHYSICS & ELECTRONICS 2020-2021

- To understand the different electronic devices involved in circuits
- To gain skill in choosing electronic devices as per their requirement

Course 3(Digital Electronics):  
➤ To apply the learned practical knowledge about the number systems, logic gates, etc. ➤ To gain knowledge about the number systems, logic gates, etc. ➤ To understand the different digital electronic devices involved in circuits ➤ To gain skill in choosing memory devices and logic gates as per their requirement ➤ To apply the learned practical knowledge in their real life.

Course 4(Analog and Digital Applications):  
➤ To gain knowledge about the Op-Amps, Timers, Converters and Counters etc. ➤ To understand the applications of different Op-amps, timers, Converters and Counters ➤ To gain skill in choosing Op-amps, timers, Converters and Counters as per their requirement ➤ To apply the learned practical knowledge in their real life.

Course 5(Analog and Digital Communications):  
➤ To gain knowledge about the Microprocessors, their internal parts and working. ➤ To understand the applications of different Microprocessors ➤ To gain skill in choosing Microprocessors as per their requirement ➤ To apply the learned practical knowledge in their real life.

Course 6(Microprocessors systems):  
➤ To gain knowledge about the Embedded Systems and Microcontrollers ➤ To understand the applications of Embedded Systems and Microcontrollers ➤ To gain skill in choosing Microcontrollers as per their requirement ➤ To apply the learned practical knowledge in their real life.

Course 7A(Micro Controller and Interfacing):  
➤ To gain knowledge about the programming with Microprocessors and Interrupts that occur. ➤ To understand the applications of different Microprocessors at different situations, ➤ To gain skill in choosing correct programming as per their requirement ➤ To apply the learned practical knowledge in their real life.

Course 7B(Optical Fiber communication)

- To study the basic concepts of optical fiber communication
- To understand the use of sensors, detectors and light sources
- To Study the applications of optical sensors
- To develop skills in operating the sensors for different purposes

Course 8A1(Embedded Systems- Design):

- To gain knowledge about the programming of Embedded Systems.
- To understand the programming of Embedded Systems
- To gain skill in choosing correct Programme and correct controllers as per their requirement
- To apply the learned practical knowledge in their real life .

Course 8A2(Electronic instrumentation)

- To gain knowledge of different measuring apparatus
- To understand the working of different measurement instruments
- To study the applications of different amplifiers and analytical instruments in laboratory
- To gain skill in operating the instruments.

Course 8A3 (Power Electronics)

- To study the basic concepts of various power semiconductor devices
- To understand the operation of power invertors, rectifiers and choppers
- To study the applications in laboratory
- To develop skills in using the instruments for correct purpose

#### Course 8B1(PC maintenance and Trouble Shooting)

- To learn the basic concepts of designing of computers, and storage devices
- To understand the reasons for trouble shooting
- To apply the precautionary measures to avoid troubles in maintenance
- To develop skill in using the correct programming for different applications

#### Course 8B2(Computer Networks)

- To gain knowledge in computer networking
- To understand different networking designs
- To apply the principles in various fields
- To observe various networking fields

#### Course 8B3(Consumer Electronics)

- To gain knowledge of different electronic home appliances
- To understand the functioning of the electronic devices
- To apply these electronic appliances and devices for daily utility purpose.
- To gain skill in maintenance of these devices

### Skill Development Courses:

#### SEMESTER1: Electrical Appliances

##### Learning Outcomes:

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

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

## SEMESTER 2: SOLAR ENERGY

### Learning Outcomes:

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

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

### SYLLABUS:

#### UNIT-I – Solar Radiation: (6 hrs)

Sun as a source of energy, Solar radiation, Solar radiation at the Earth's surface, Measurement of Solar radiation-Pyroheliometer, Pyranometer, Sunshine recorder, Prediction of available radiation, Solar energy-Importance, Storage of solar energy, Solar pond

#### UNIT-II – Solar Thermal Systems: (10 hrs)

Principle of conversion of solar radiation into heat, Collectors used for solar thermal conversion: plate collectors and Concentrating collectors, Solar Thermal Power Plant, Solar cookers, Solar water systems, Solar dryers, Solar Distillation, Solar greenhouses.

**UNIT-III – Solar Photovoltaic Systems: (10 hrs)** Conversion of Solar energy into Electricity - Photovoltaic Effect, Solar photovoltaic cell and its working principle, Different types of Solar cells, Series and parallel connections, Photovoltaic applications: Battery chargers, domestic lighting, street lighting and water pumping

#### Reference Books:

1. Solar Energy Utilization, G. D. Rai, Khanna Publishers
1. Solar Energy- Fundamentals, design, modeling & applications, G.N. Tiwari, Narosa Pub., 2005. 2. Solar Energy-Principles of thermal energy collection & storage, S.P. Sukhatme, Tata Mc- Graw Hill Publishers, 1999.
3. Solar Photovoltaics- Fundamentals, technologies and applications, Chetan Singh Solanki, PHI Learning Pvt. Ltd.,  
Science and Technology of Photovoltaics, P. Jayarama Reddy, BS Publications, 2004

Name of the Department	Physics
Programme & Code	B.Sc (M.P.C-301 & M.P.Cs-302)
Subject :: Physics Paper -V	Course Title :: <i>Electricity, Magnetism and Electronics</i> - Code :: PHY 5302 ✓
No.of hours per week :: 3	Total Lectures :: 45
No. of credits -3	Semester-V -Syllabus -2020-21

**1.1 Electric field intensity and potential:**  
Gauss's law statement and its proof- Electric field intensity due to Uniformly charged sphere and plane sheet of charge, differential form of Gauss law-Electric Potential- Equipotential surfaces

**1.2. Dielectrics:**  
Electric dipole moment and molecular polarizability- Electric displacement D, electric polarization relation between D, E and P- Dielectric constant and susceptibility. Gauss law in dielectrics

**UNIT-II (10 hrs)**

**2.1. Electric and magnetic fields**  
Biot-Savart's law, explanation and calculation of B due to long straight wire, a circular current loop- Particle accelerators- cyclotron. Hall effect and its applications

**2.2. Electromagnetic induction**  
Faraday's law-Lenz's law- Self and mutual inductance, calculation of self inductance of a long solenoid. Transformer (basic ideas only)

**UNIT-III (10 hrs)**

**3.1. Alternating currents and electromagnetic waves**  
Alternating current - Relation between current and voltage in pure L, C & R circuits, LCR series and parallel resonant circuit, Q-factor,

**3.2. Maxwell's equations**  
Idea of displacement current - Maxwell's equations (integral and differential forms) (no derivation) Maxwell's wave equation (with derivation), Transverse nature of electromagnetic waves. Poynting theorem (statement only),

**UNIT-IV (08 hrs)**

**4. Basic electronics:**  
PN Diode- IV Characteristics, Zener Diode - its IV characteristics -PNP and NPN transistors, CB, CE and CC configurations - Relation between  $\alpha$ ,  $\beta$  and  $\gamma$  -PNP transistor (CE) characteristics

**UNIT-V (07 hrs)**

**5. Digital electronics**  
Number systems - Conversion of binary to decimal system and vice versa.). De Morgan's laws-statement and proof, Basic logic gates, NAND and NOR as universal gates, exclusive- OR gate, Half adder and full adder

**Additional Topics & Topics for Seminars and assignments**

- Electric Potential due to charged spherical shell
- B of solenoid using Biot- Savart law
- Production of electromagnetic waves (Hertz experiment).
- Laws of Boolean algebra
- Power in ac circuits.
- Energy stored in magnetic field
- Binary addition and subtraction (1's and 2's complement methods)

**REFERENCE BOOKS**

1. BSc Physics, Vol.3, Telugu Akademy, Hyderabad.
2. Electricity and Magnetism, D.N. Vasudeva. S. Chand & Co.
3. Electricity, Magnetism with Electronics, K.K.Tewari, R.Chand & Co.,
4. Principles of Electronics, V.K. Mehta, S.Chand & Co.,

Name of the Department	Physics
Programme & Code	B.Sc (M.P.C-301 & M.P.Cs-302)
Subject :: Physics Cluster Elective Paper –VIII-C-1	Course Title :: Solar Thermal and Photovoltaic Aspects Code :: PHY 8302C1
No.of hours per week :: 3	Total Lectures :: 45
No. of credits -3	Semester-VI –Syllabus -2020-21

### UNIT-I (10 hrs)

**1.1. Basics of Solar Radiation:** Structure of Sun, Spectral distribution of extra terrestrial radiation, Solar constant, Concept of Zenith angle and air mass, Definition of declination, hour angle, solar and surface azimuth angles; Direct, diffuse and total solar radiation, Solar intensity measurement –pyrheliometer.

**1.2. Radiative Properties and Characteristics of Materials:** Reflection, absorption and transmission of solar radiation through single and multi covers; Kirchoff's law – Relation between absorptance, emittance and reflectance (equation only); selective surfaces, preparation and characterization, types and applications, anti -reflective coating

### UNIT-II (9 hrs)

**2.1. Flat Plate Collectors (FPC) :** Description of flat plate collector, Liquid heating type FPC, Energy balance equation, Efficiency, Temperature distribution in FPC, Definitions of fin efficiency and collector efficiency.

**2.2. Concentrating Collectors:** Classification, design and performance parameters; Definitions of aperture, rim-angle, and concentration ratio and acceptance angle; tracking systems, parabolic trough concentrators, concentrators with point focus.

### Unit-III (10 hrs)

**3.1 Solar photovoltaic (PV) cell:** Physics of solar cell –Type of interfaces, homo, hetero and schottky interfaces, Photovoltaic Effect, Equivalent circuit of solar cell, Solar cell output parameters, Series and shunt resistances and its effect on cell efficiency.

**3.2. Solar cell fabrication:** Production of single crystal Silicon: Czochralski (CZ) and Float Zone (FZ) methods, Silicon wafer fabrication, Wafer to cell formation, Thin film solar cells, Advantages, CdTe/CdS cell formation, Multi-junction solar cell.

### UNIT-IV (09 hrs)

**4.1 Solar PV systems:** Solar cell module assembly – Steps involved in the fabrication of solar module, Module performance, I-V characteristics, Modules in series and parallel, Solar PV system and its components,

**Solar PV applications:** SPV systems; Standalone, hybrid and grid connected systems, System installation, operation and maintenances.

### UNIT-V (07 hrs)

**5. Solar thermal applications:** Solar hot water system (SHWS), Types of SHWS, Standard method of testing the efficiency of SHWS; Passive space heating and cooling concepts, Solar thermal power generation.

# SKILL DEVELOPMENT COURSES:

## SEMESTER 1: ELECTRICAL APPLIANCES

*[Any four of the following may be taken up]*

1. Studying the electrical performance and power consumption of a given number of bulbs connected in series and parallel circuits.
2. Measuring parameters in combinational DC circuits by applying Ohm's Law for different resistor values and voltage sources
3. Awareness of electrical safety tools and rescue of person in contact with live wire.
4. Checking the specific gravity of lead acid batteries in home UPS and topping-up with distilled water.
5. Identifying Phase, Neutral and Earth on power sockets.
6. Identifying primary and secondary windings and measuring primary and secondary voltages in various types of transformers.
7. Observing the working of transformer under no-load and full load conditions.
8. Observing the response of inductor and capacitor with DC and AC sources.
9. Observing the connections of elements and identify current flow and voltage drops.
10. Studying electrical circuit protection using MCBs, ELCBs

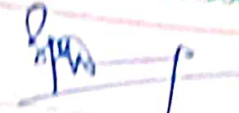

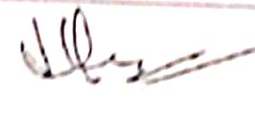
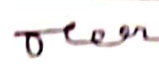
## SEMESTER 2: SOLAR ENERGY

*[Any four of the following may be taken up]*

1. Plot sun chart and locate the sun at your location for a given time of the day.
2. Analyse shadow effect on incident solar radiation and find out contributors.
3. Connect solar panels in series & parallel and measure voltage and current.
4. Measure intensity of solar radiation using Pyranometer and radiometers.
5. Construct a solar lantern using Solar PV panel (15W)
6. Assemble solar cooker
7. Designing and constructing photovoltaic system for a domestic house requiring 5kVA power

GOVERNMENT COLLEGE FOR WOMEN (A), GUNTUR  
DEPARTMENT OF PHYSICS & ELECTRONICS

Signatures of Board of Studies Members

Name	Role	Signature	Phone Number
Dr. N. Manjula Bharathi,	Chairperson		
Kum. S. Prasanthi Danie	Member	N.H. Bharathi	9440220746
Smt Sk. Jubeda	Member		9959030695
G. Sita	Member	Jubeda	8008091128
K. Srinivasa Rao	Member	G. Sita	6303059389
Dr. G. Naga Raju	University Nominee	K. Srinivasa Rao	9912231470
Dr. G. Sunitha Sundari	Subject Expert		9866294321
Dr. J. Nischal Kiran	Subject Expert		9396762244
Dr. P.V. Ramu	Subject Expert		9985231727
Miss Sk. Ameena	Alumni Member	Sk. Ameena	6281976229
Miss D. Sravini	Student Member	D. Sravani	7995187156
Miss Anitha	Student Member	K. Anitha	8096475479
			8094052456

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**DEPARTMENT OF CHEMISTRY**

**BOARD OF STUDIES**

**2020-21**

**08<sup>th</sup> December 2020**



**Govt. College for Women**  
**(AUTONOMOUS) - GUNTUR. 1942 (Estd.)**  
**Centre with Potential for Excellence**

**PROCEEDINGS OF THE PRINCIPAL**

Present: Dr. V. R. Jyothsna Kumari

Sub:- Conduction of BoS Meeting for the Academic Year 2020-2021-Reg.

Ref:- Letter from Academic Coordinator. Lr. No. GCW(A)/ACAD/2020-2021 – BoS (2020-2021) – 3 /dt 01--12-2020.

In Pursuance of the UGC Guidelines and as per the reference cited above, all the in-charges of the Department are requested to identify the gaps in the curriculum and do needs analysis in the concern subjects and finalize the syllabus for the academic year 2020-2021 after thorough discussion with the members of the department and proceed for the conduction of Board of Studies Meeting.

Prior to this the in-charges are also requested to constitute BoS committees and submit the list of BoS members to the academic council on or before 25/08/2020.

*V.R. Jyothsna Kumari*  
Principal

**PRINCIPAL**  
**GOVT. COLLEGE FOR WOMEN (A)**  
**GUNTUR.**

Copy to,

1. The in-charges of all the Departments.
2. The Academic Coordinator
3. IQAC Coordinator
4. Controller of Examinations.

## Aims and Objectives

**Aim:** To educate young women students and prepare them in various fields like teaching, employment, research and to make them dynamically competent enough for a diverse and changing world. Our department strives to provide quality and value based education.

### Objectives:

By the completion of graduation the student must

- Be familiar with the various areas of Chemistry like Organic Chemistry, Inorganic Chemistry, General Chemistry, Physical Chemistry and Analytical Chemistry.
- Be able to work effectively and safely in the laboratory environment.
- Be able to communicate efficiently both orally and in writing.
- Learn how to think critically and analyse chemical problems.
- Be able to work in teams as well as independently.
- Develop abstract thinking skills as well as concrete thinking skills
- Be able to initiate career in the field of Chemistry.
- Be able to realise the ethics of Chemistry and social responsibility.

To realize the above objectives the action programme proposed is

- The timely and effective guidance of students
- Assigning and encouraging the students to take up independent as well as group laboratory projects.
- Encouraging student seminars and student projects.
- Laboratory experience with up to date equipment.
- Providing opportunity for students to interact with alumni and professional chemists.
- Encouraging students to work in the social environment to create awareness of Chemistry among people.

### Agenda

1. Approval of academic regulations, syllabi, changes in curriculum, Blue prints, pattern of Question papers, Practical's syllabi, scheme of valuation etc.
2. Approval of syllabus for B.Sc Chemistry I Year as proposed by APCHE.
3. Approval of I Year syllabus for the newly introducing B.Sc Honours course.
4. Approval of list of paper setters & Examiners.
5. Approval of action plan for the academic year 2020-21.
6. Approval of Choice based credit system (CBCS) for chemistry for SEM – I, II, III, IV, V & VI.
7. Approval of assessment components
  - The minimum pass marks in each semester are 40.
  - Even if student is absent in two mid exams, they are eligible to write final exams provided they obtain 40 marks in final exam for clearing each paper.
  - There are no minimum pass marks in mid exam & no Re-mids for absentees.
8. Approval of Certificate courses for final year and Second year students.
9. Any other proposal with the permission of the chair.

SEMESTER I

Paper I (Inorganic and Physical Chemistry) 60 hrs (4 h / w)

i. Course Learning outcomes:

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

- Understand the basic concepts of p-block elements
- Explain the difference between solid, liquid and gases in terms of intermolecular interactions.
- Apply the concepts of gas equations, pH and electrolytes while studying other chemistry courses.

ii. Syllabus:

**INORGANIC CHEMISTRY**

24 h

**UNIT –I**

**Chemistry of p-block elements**

8h

**Group 13:** Preparation & structure of Diborane, Borazine

**Group 14:** Preparation, classification and uses of silicones

**Group 15:** Preparation & structures of Phosphonitrilic halides  $\{(PNCl_2)_n$  where  $n=3, 4$

**Group 16:** Oxides and Oxoacids of Sulphur (structures only) **Group 17:** Pseudohalogens, Structures of Interhalogen compounds.

**UNIT-II**

**1. Chemistry of d-block elements:**

6h

Characteristics of d-block elements with special reference to electronic configuration, variable valence, magnetic properties, catalytic properties and ability to form complexes. Stability of various oxidation states.

**2. Chemistry of f-block elements:**

6h

Chemistry of lanthanides - electronic structure, oxidation states, lanthanide contraction, consequences of lanthanide contraction, magnetic properties. Chemistry of actinides - electronic configuration, oxidation states, actinide contraction, comparison of lanthanides and actinides.

**3. Theories of bonding in metals:**

4h

Valence bond theory and Free electron theory, explanation of thermal and electrical conductivity of metals based on these theories, Band theory- formation of bands, explanation of conductors, semiconductors and insulators.

**PHYSICAL CHEMISTRY 36h****UNIT-III****Solid state 10h**

Symmetry in crystals. Law of constancy of interfacial angles. The law of rationality of indices. The law of symmetry. Miller indices, Definition of lattice point, space lattice, unit cell. Bravais lattices and crystal systems. X-ray diffraction and crystal structure. Bragg's law. Powder method. Defects in crystals. Stoichiometric and non-stoichiometric defects.

**UNIT-IV****1. Gaseous state 6h**

van der Waal's equation of state. Andrew's isotherms of carbon dioxide, continuity of state. Critical phenomena. Relationship between critical constants and vander Waal's constants. Law of corresponding states. Joule- Thomson effect. Inversion temperature.

**2. Liquid state 4h**

Liquid crystals, mesomorphic state. Differences between liquid crystal and solid/liquid. Classification of liquid crystals into Smectic and Nematic. Application of liquid crystals as LCD devices.

**UNIT-V****Solutions, Ionic equilibrium & dilute solutions****1. Solutions 6h**

Azeotropes-HCl-H<sub>2</sub>O system and ethanol-water system. Partially miscible liquids-phenol- water system. Critical solution temperature (CST), Effect of impurity on consolute temperature. Immiscible liquids and steam distillation. Nernst distribution law. Calculation of the partition coefficient. Applications of distribution law.

**2. Ionic equilibrium 3h**

Ionic product, common ion effect, solubility and solubility product. Calculations based on solubility product.

**3. Dilute solutions 7h**

Colligative properties- RLVP, Osmotic pressure, Elevation in boiling point and depression in freezing point. Experimental methods for the determination of molar mass of a non-volatile solute using osmotic pressure, Elevation in boiling point and depression in freezing point. Abnormal colligative properties. Van't Hoff factor.

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## SEMESTER II

### Paper II (ORGANIC & GENERAL CHEMISTRY) 60 hrs (4 h / w)

#### i. Course Learning outcomes:

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

1. Understand and explain the differential behavior of organic compounds based on fundamental concepts learnt.
2. Formulate the mechanism of organic reactions by recalling and correlating the fundamental properties of the reactants involved.
3. Learn and identify many organic reaction mechanisms including Free Radical Substitution, Electrophilic Addition and Electrophilic, Aromatic Substitution.
4. Correlate and describe the stereochemical properties of organic compounds and reactions.

#### ii. Syllabus:

#### ORGANIC CHEMISTRY

36h

#### UNIT-I

#### Recapitulation of Basics of Organic Chemistry

#### Carbon-Carbon sigma bonds (Alkanes and Cycloalkanes)

12h

General methods of preparation of alkanes- Wurtz and WurtzFittig reaction, Corey House synthesis, physical and chemical properties of alkanes, Isomerism and its effect on properties, Free radical substitutions; Halogenation, concept of relative reactivity v/s selectivity. Conformational analysis of alkanes (Conformations, relative stability and energy diagrams of Ethane, Propane and butane). General molecular formulae of cycloalkanes and relative stability, Baeyer strain theory, Cyclohexane conformations with energy diagram, Conformations of monosubstituted cyclohexane.

#### UNIT-II

#### Carbon-Carbon pi Bonds (Alkenes and Alkynes)

12h

General methods of preparation, physical and chemical properties. Mechanism of E1, E2, E1cb reactions, Saytzeff and Hoffmann eliminations, Electrophilic Additions, mechanism (Markownikoff Antimarkownikoff addition) with suitable examples, *syn* and *anti*-addition; addition of H<sub>2</sub>, X<sub>2</sub>, HX. Oxymercuration-demercuration, hydroboration -oxidation, ozonolysis, hydroxylation, Diels Alder reaction,

1,2- and 1,4-addition reactions in conjugated dienes. Reactions of alkynes; acidity, electrophilic and nucleophilic additions, hydration to form carbonyl compounds, Alkylation of terminal alkynes.

### UNIT-III

#### Benzene and its reactivity

12h

Concept of aromaticity, Huckel's rule - application to Benzenoid (Benzene, Naphthalene) and Non - Benzenoid compounds (cyclopropenylcation, cyclopentadienyl anion and tropyliumcation); Reactions - General mechanism of electrophilic aromatic substitution, mechanism of nitration, Friedel- Craft's alkylation and acylation. Orientation of aromatic substitution - ortho, para and meta directing groups. Ring activating and deactivating groups with examples (Electronic interpretation of various groups like  $\text{NO}_2$  and Phenolic). Orientation of (i) Amino, methoxy and methyl groups (ii) Carboxy, nitro, nitrile, carbonyl and sulphonic acid groups (iii) Halogens (Explanation by taking minimum of one example from each type)

### GENERAL CHEMISTRY

24 h

#### UNIT-I

##### 1. Surface chemistry and chemical bonding

###### Surface chemistry

6h

Colloids- Coagulation of colloids- Hardy-Schulze rule. Stability of colloids, Protection of Colloids, Gold number.

Adsorption-Physical and chemical adsorption, Langmuir adsorption isotherm, applications of adsorption.

##### 2. Chemical Bonding

6h

Valence bond theory, hybridization, VB theory as applied to  $\text{ClF}_3$ ,  $\text{Ni}(\text{CO})_4$ , Molecular orbital theory -LCAO method, construction of M.O. diagrams for homo-nuclear and hetero-nuclear diatomic molecules ( $\text{N}_2$ ,  $\text{O}_2$ ,  $\text{CO}$  and  $\text{NO}$ ).

##### 3. HSAB

2h

Pearson's concept, HSAB principle & its importance, bonding in Hard-Hard and Soft-Soft combinations.

#### UNIT-V

##### Stereochemistry of carbon compounds

10h

Molecular representations- Wedge, Fischer, Newman and Saw-Horse formulae.

Optical isomerism: Optical activity- wave nature of light, plane polarised light, optical rotation and specific rotation.

Chiral molecules- definition and criteria(Symmetry elements)- Definition of enantiomers and diastereomers – Explanation of optical isomerism with examples- Glyceraldehyde, Lactic acid, Alanine, Tartaric acid, 2,3-dibromopentane.

D,L, R,S and E,Z- configuration with examples.

Definition of Racemic mixture – Resolution of racemic mixtures (any 3 techniques)

### iii. Practical syllabus-II:

#### LABORATORY COURSE-II

30hrs (2 h / w)

#### Practical-II Volumetric Analysis

(At the end of Semester-II)

#### Course outcomes:

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

1. Use glassware, equipment and chemicals and follow experimental procedures in the laboratory
2. Understand and explain the volumetric analysis based on fundamental concepts learnt in ionic equilibria
3. Learn and identify the concepts of a standard solutions, primary and secondary standards
4. Facilitate the learner to make solutions of various molar concentrations. This may include: The concept of the mole; Converting moles to grams; Converting grams to moles; Defining concentration; Dilution of Solutions; Making different molar concentrations.

#### Volumetric analysis

50 M

1. Estimation of sodium carbonate and sodium hydrogen carbonate present in a mixture.
2. Determination of Fe (II) using  $\text{KMnO}_4$  with oxalic acid as primary standard.
3. Determination of Cu (II) using  $\text{Na}_2\text{S}_2\text{O}_3$  with  $\text{K}_2\text{Cr}_2\text{O}_7$  as primary standard.
4. Estimation of water of crystallization in Mohr's salt by titrating with  $\text{KMnO}_4$

**i. Course Learning outcomes:**

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

- Enables the learner to analyze organic substances.
- Develops in-depth knowledge in coordination chemistry & nitrogen bearing organic molecules.
- Understands the concept of system, variables, heat, work, and laws of thermodynamics

**ii. Syllabus:****INORGANIC CHEMISTRY****UNIT – I****Coordination Chemistry:****8h**

IUPAC nomenclature - bonding theories - Review of Werner's theory and Sidgwick's concept of coordination - Valence bond theory - geometries of coordination numbers 4-tetrahedral and square planar and 6-octahedral and its limitations, crystal field theory - splitting of d-orbitals in octahedral, tetrahedral and square-planar complexes - low spin and high spin complexes - factors affecting crystal-field splitting energy, merits and demerits of crystal-field theory. Isomerism in coordination compounds - structural isomerism and stereo isomerism, stereochemistry of complexes with 4 and 6 coordination numbers.

**Additional inputs:** Applications of complex compounds

**UNIT-II****1. Spectral and magnetic properties of metal complexes:****4h**

Types of magnetic behaviour, spin-only formula, calculation of magnetic moments, experimental determination of magnetic susceptibility-Gouy's method.

**2. Stability of metal complexes:****3h**

Thermodynamic stability and kinetic stability, factors affecting the stability of metal complexes, chelate effect, determination of composition of complex by Job's method and mole ratio method.

**Additional inputs:** colour of complex compounds

**Govt. College for Women (A), Guntur****SEMESTER-V****Paper - VI (INORGANIC, ORGANIC & PHYSICAL CHEMISTRY)**

45 hrs. (3 h / w)

**i. Course Learning outcomes:**

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

8. Understands the basics of chemical kinetics: determination of order, molecularity, theories of reaction rates, determination of rate of reactions and applications
9. Able write the structure, mechanism of reactions of selected heterocyclic compounds
10. Draws a general overview on classification, structure, synthesis and properties of Amino acids.

**ii. Syllabus:****INORGANIC CHEMISTRY****UNIT-I****1. Reactivity of metal complexes: 4h**

Labile and inert complexes, ligand substitution reactions -  $SN^1$  and  $SN^2$ , substitution reactions of square planar complexes - Trans effect and applications of trans effect.

**2. Bioinorganic chemistry: 4h**

Essential elements, biological significance of Na, K, Mg, Ca, Fe, Co, Ni, Cu, Zn and Cl. Metalloporphyrin – Structure and functions of haemoglobin, Myoglobin and Chlorophyll.

**Additional inputs:** HSAB primary treatment

**PHYSICAL CHEMISTRY****UNIT-II****1. Chemical kinetics 8h**

Rate of reaction - Definition of order and molecularity. Derivation of rate constants for first, second, third and zero order reactions and examples. Derivation for time half change. Methods to determine the order of reactions. Effect of temperature on rate of reaction, Arrhenius equation, concept of activation energy.

**2. Photochemistry 5h**

Difference between thermal and photochemical processes. Laws of photochemistry- Grothius-Draper's law and Stark-Einstein's law of photochemical equivalence. Quantum yield-Photochemical reaction mechanism- hydrogen- chlorine, hydrogen- bromine reaction. Qualitative description of fluorescence, phosphorescence, Photosensitized reactions- energy transfer processes (simple example)

**Additional inputs:** Solar cells introduction

# Govt. College for Women (A), Guntur

## SEMESTER VI

### Paper VIIA (Analytical Methods in chemistry) 45 hrs (3 h / w)

#### i. Course Learning outcomes:

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

- Awareness about traditional and latest analytical techniques for estimation and identification of compounds
- Knowledge about errors and their minimization while working in the laboratory
- Acquire suitable inputs to work in laboratories and industries

#### ii. Syllabus:

##### UNIT-I

##### Quantitative analysis:

10h

a) Importance in various fields of science, steps involved in chemical analysis. Principles of volumetric analysis. Theories of acid-base, redox, complexometric, iodometric and precipitation titrations - choice of indicators for these titrations.

b) Principles of gravimetric analysis: precipitation, coagulation, peptization, coprecipitation, post precipitation, digestion, filtration and washing of precipitate, drying and ignition.

Additional inputs: Applications of titrimetry and gravimetry

##### UNIT-II

##### Treatment of analytical data:

7h

Types of errors, significant figures and its importance, accuracy - methods of expressing accuracy, error analysis and minimization of errors, precision - methods of expressing precision, standard deviation and confidence limit.

Additional Inputs: T-test, F-test.

##### UNIT-III

##### SEPARATION TECHNIQUES IN CHEMICAL ANALYSIS:

8h

SOLVENT EXTRACTION : Introduction, principle, techniques, factors affecting solvent extraction, Batch extraction, continuous extraction and counter current extraction. Synergism., Application - Determination of Iron (III)

ION EXCHANGE : Introduction, action of ion exchange resins, separation of inorganic mixtures, applications, Solvent extraction: Principle and process.

Additional inputs: Phase transfer catalysts.

##### UNIT - IV

10h

**Chromatography:** Classification of chromatography methods, principles of differential migration adsorption phenomenon, Nature of adsorbents, solvent systems,  $R_f$  values, factors effecting  $R_f$  values.

Govt. College for Women (A), Guntur

## SEMESTER VI

## Paper VIII B (Analytical Methods in chemistry) 45 hrs (3 h / w)

i. Course Learning outcomes:

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

- Awareness about various segments of earth, ecology and global, national and regional biodiversity
- History of advent of environmental studies its need and scope in today's life
- Various types of pollutions affecting the environment and measures to control them
- Sources of toxic metals and their effect on plants animals and humans
- Overall knowledge about Environmental Chemistry in nutshell

ii. Syllabus:

## UNIT-I

## Introduction

9h

Concept of Environmental chemistry - Scope and importance of environment in now adays - Nomenclature of environmental chemistry - Segments of environment - Natural resources - Renewable Resources - Solar and biomass energy and Nonrenewable resources - Thermal power and atomic energy - Reactions of atmospheric oxygen and Hydrological cycle.

**Additional Inputs:** Environmental management

## UNIT-II

## Air Pollution

9h

Definition - Sources of air pollution - Classification of air pollution - Acid rain - Photochemical smog - Green house effect - Formation and depletion of ozone - Global dimming - Bhopal gas disaster - Controlling methods of air pollution.

**Additional Inputs:** Effects of air pollution

## UNIT-III

## Water pollution

9h

Unique physical and chemical properties of water - water quality and criteria for finding of water quality - Dissolved oxygen - BOD, COD, Suspended solids, total dissolved solids, alkalinity - Hardness of water - Methods to convert temporary hard water into soft water - Methods to convert permanent hard water into soft water - eutrophication and its effects - Harmful algal blooms (HAB's)- Acid Mine drainage - principal wastage treatment - Industrial waste water treatment.

**Additional Inputs:** Seepage water treatment plant

Govt. College for Women (A), GunturSEMESTER VI  
Paper VIIC (Green Chemistry) 45 hrs (3 h / w)i. Course Learning outcomes:

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

- Knowledge of need for Green Chemistry, principles involved in it
- Awareness of different modern methods used in green chemical reactions
- Basic idea of research work in Green Chemistry which is need of hour

ii. Syllabus:

10h

## UNIT-I

**Green Chemistry:** Introduction- Definition of green Chemistry, need of green chemistry, basic principles of green chemistry. Green synthesis- Evaluation of the type of the reaction i) Rearrangements (100% atom economic), ii) Addition reaction (100% atom economic). Organic reactions by Sonication method: apparatus required examples of sonochemical reactions (Heck, Hunsdiecker and Wittig reactions), Real world examples for green chemistry.

Additional inputs: Planning of green synthesis in laboratory.

10h

## UNIT-II

**Selection of solvent:** i) Aqueous phase reactions ii) Reactions in ionic liquids, Heck reaction, Suzuki reactions, epoxidation. iii) Solid supported synthesis

**Super critical CO<sub>2</sub>:** Preparation, properties and applications, (decaffeination, dry cleaning)

Additional inputs: Other examples

10h

## UNIT-III

**Microwave and Ultrasound assisted green synthesis:** Apparatus required, examples of MAOS (synthesis of fused anthro quinones, Leukart reductive amination of ketones) - Advantages and disadvantages of MAOS. Aldol condensation-Cannizzaro reaction-Diels-Alder reactions-Strecker's synthesis

Additional inputs: Preparation of derivatives of some organic compounds

## UNIT-IV

5h

**Green catalysis:** Heterogeneous catalysis, use of zeolites, silica, alumina, supported catalysis- biocatalysis: Enzymes, microbes Phase transfer catalysis (micellar/surfactant)

Additional inputs: PTC'S

**SEMESTER VI**

**Paper VIIIA-2 (INSTRUMENTAL METHODS OF ANALYSIS) 45 hrs (3 h / w)**

**i. Course Learning outcomes:**

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

- Understand the latest analytical techniques used for estimation and identification of organic compounds
- Basic concepts involved in spectroscopic techniques and their applications
- Basic concepts involved in Chromatography techniques and their applications

**ii. Syllabus:**

**UNIT – I**

**Introduction to spectroscopic methods of analysis: 4 h**

Recap of the spectroscopic methods covered in detail in the core chemistry syllabus:

Treatment of analytical data, including error analysis. Classification of analytical methods and the types of instrumental methods.

Additional inputs: Consideration of electromagnetic radiation

**UNIT – II**

**Molecular spectroscopy: 8h**

*Infrared spectroscopy:*

Interactions with molecules: absorption and scattering. Means of excitation (light sources), separation of spectrum (wavelength dispersion, time resolution), detection of the signal (heat, differential detection), interpretation of spectrum (qualitative, mixtures, resolution), advantages of Fourier Transform (FTIR). Samples and results expected. Applications: Issues of quality assurance and quality control.

Additional inputs: Special problems for portable instrumentation and rapid detection.

**UNIT – III**

**10h**

*UV-Visible/ Near IR* – emission, absorption, fluorescence and photoacoustic. Excitation

sources (lasers, time resolution), wavelength dispersion (gratings, prisms, interference filters, laser, placement of sample relative to dispersion, resolution), Detection of signal (photocells, photomultipliers, diode arrays, sensitivity and S/N), Single and Double Beam instruments, Interpretation (quantification, mixtures, absorption vs. fluorescence).

Additional inputs: use of time, photoacoustic, fluorescent tags

**UNIT – IV**

**Separation techniques**

Govt. College for Women (A), Guntur

SEMESTER VI

Paper VIIIA-3 (ANALYSIS OF DRUGS, FOODS, DAIRY PRODUCTS & BIO-CHEMICAL ANALYSIS)

45 hrs (3 h / w)

i. Course Learning outcomes:

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

- Awareness in some important drugs analysis and their preparation
- Awareness in analysis of food products, coloring agents, flavoring agents etc.
- Analysis of blood and its components
- At the end this cluster a student is equipped sufficient knowledge about various methods of analysis and how to identify adulteration in food products
- A student will be eligible for entry level jobs in drug industries and other organic based industries and laboratories

ii. Syllabus:

UNIT- I

Analysis of the following drugs and pharmaceuticals preparations:

(Knowledge of molecular formula, structure and analysis)

Analysis of analgesics and antipyretics like aspirin and paracetamol

Analysis of antimalarials like chloroquine .

Analysis of drugs in the treatment of infections and infestations :Amoxicillin., chloramphenicol, metronidazole, penicillin, tetracycline, cephalixin(cefalexin).

Anti tuberculous drug- isoniazid.

**Additional inputs:** Adsorption spectra for quantitative analysis.

UNIT - II

Analysis of the following drugs and pharmaceuticals preparations:

(Knowledge of molecular formula, structure and analysis)

Analysis of antihistamine drugs and sedatives like: allegra, zyrtec(citirizine), alprazolam, trazodone, lorazepam, ambien(zolpidem), diazepam,

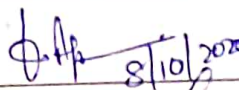
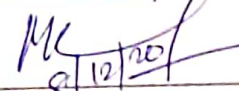
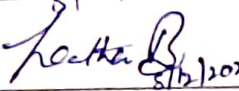
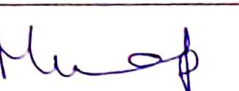


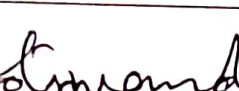
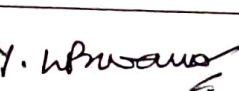
**Additional inputs:** potentiometric acid base titrations.

Annexure-28

Govt. College for Women (A), Guntur

CERTIFICATE

The syllabus, Model Question Papers including Blue Print in Chemistry Subject for I, II, III, IV, V & VI Semesters for B.Sc. Course (Theory & Practical), Syllabus and Model Papers for the B.Sc. Chemistry (Honours) for the academic year 2020-21, Panel of Examiners and Paper Setters, allocation of Credits, Blue print for Internal Assessment, Departmental Activities, etc., are mentioned in annexure 1 to 27 are discussed and some suggestions are made as given in page nos. 221-233 and approved in the Board of Studies meeting held online by the Department of Chemistry on 08.12.2020 AN and is recommended for the approval of Academic Council.

Sl.No	Name	Designation	Signature
1.	K. Aparna Seetharam In-charge of Dept. of Chemistry, GCW(A), Guntur	Chairman	 8/10/2020
2.	M. Kamala Karuna Lecturer in Chemistry, GCW(A), Guntur	Member	 8/12/20
3.	Dr. B. Latha Lecturer in Chemistry, GCW(A), Guntur	Member	 8/12/2020
4.	K. Anusha Lecturer in Chemistry, GCW(A), Guntur	Member	K. Anusha
5.	K. Sujatha Lecturer in Chemistry, GCW(A), Guntur	Member	K. Sujatha
6.	P. Madhu Latha Lecturer in Chemistry, GCW(A), Guntur	Member	
10	Dr. V. Neeraja Assistant Professor in Chemistry, S.R.R & C.V.R. College (A), Vijayawada	Subject Expert	V. Neeraja
11	Dr. N. Satya Sree Professor in Chemistry, A.C. College, Guntur	Subject Expert	
12	Dr. Anitha C. Kumar Dept. of Chemistry, Acharya Nagarjuna University	University Nominee	
13	S. BalaKoteswara Rao Minerals and Chemical Industries, Piduguralla	Industrial Nominee	
14	Lakshmi Prasanna Guest Lecturer in Chemistry, PG College, GCWA, Guntur	Alumni Member	

GOVT. COLLEGE FOR WOMEN (A)  
SAMBASIVAPETA, GUNTUR-522001.



DEPARTMENT OF ZOOLOGY  
BOARD OF STUDIES MEETING

02.11.2020

2020-21



**Govt. College for Women**  
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Centre with Potential for Excellence

PROCEEDINGS OF THE PRINCIPAL

Present: Dr. V.R. Jyothsna Kumari

Proceedings RC No - BoS (2020-2021) - 1 dated 14-08-2020  
Sub:- Conduction of BoS Meeting for I, III and V Semesters Reg.

Ref:- Letter from Academic Coordinator. Lr. No. GCW(A)/ACAD/2020-2021 - BoS (2020-2021) - 1 /dt14-08-2020.

In Pursuance of the UGC Guidelines and as per the reference cited above, all the in-charges of the Department are requested to identify the gaps in the curriculum and do needs analysis in the concern subjects and finalize the syllabus for I, III and V semesters after thorough discussion with the members of the department and proceed for the conduction of Board of Studies Meeting.

Prior to this the in-charges are also requested to constitute BoS committees and submit the list of BoS members to the academic council on or before 25/08/2020.

*V.R. Jyothsna Kumari*  
Principal 17/8/2020

Copy to,

1. The in-charges of all the Departments.
2. The Academic Coordinator
3. IQAC Coordinator
4. Controller of Examinations.

PRINCIPAL  
GOVT. COLLEGE FOR WOMEN,  
GUNTUR.

**GOVT. COLLEGE FOR WOMEN (A), GUNTUR**  
**DEPARTMENT OF ZOOLOGY**  
**I B.Sc. ZOOLOGY SYLLABUS, II SEMESTER (W.E.F 2020-21)**

6  
40

**Course Name: ANIMAL DIVERSITY- CHORDATES**  
**Course Code: Z002307**  
**Periods: 60**

**Credits: 4**  
**Marks: 70**

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**Course Learning 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 evolutionary significance
  - 5 Understand the origin and evolutionary relationship of different phyla from Prochordata to mammalia.

**Unit - I- Classification of chordata and Cephalochordata**

- 1.1 General characters and classification of Chordata upto classes
- 1.2 Protochordata- Salient features of Cephalochordata , Affinities of Cephalochordata.
- 1.3 Salient features of Urochordata
- 1.4 Structure and life history of Herdmania
- 1.5 Retrogressive metamorphosis –Process and Significance

**Unit - II - Cyclostomata and Pisces**

- 2.1 Cyclostomata, General characters, Comparison of Petromyzon and Myxine
- 2.2 Pisces : General characters of Fishes
- 2.3 Scollidon: External features, Digestive system, Respiratory system, Structure and functions of the Brain.
- 2.4 Migration in Fishes
- 2.5 Types of Scales
- 2.6 Dipnoi

**Unit - III – Amphibia and Reptilia**

- 3.1 General characters of Amphibia
- 3.2 Classification of Amphibia up to orders with examples.
- 3.3 Rana hexadactyla: External features, Digestive system, Respiratory system, structure and functions of the Brain
- 3.4 Reptilia: General characters of Reptilia, Classification of Reptilia upto orders with examples
- 3.5 Calotes: External features, Digestive system, Respiratory system, structure and function of Brain
- 3.6. Identification of Poisonous snakes and Skull in reptiles

**Unit - IV - Aves**

- 4.1 Aves - General characters of Aves
- 4.2 Columba livia: External features, Digestive system, Respiratory system, structure and function of Brain
- 4.3 Migration in Birds
- 4.4 Flight adaptation in birds

**Unit - V - Mammalia**

- 5.1 General characters of Mammalia
- 5.2 Classification of Mammalia upto sub - classes with examples
- 5.3 Comparison of Prototherians, Metatherians and Eutherians
- 5.4 Dentition in mammals

**Additional input:** A comparative study of structure and function of heart in vertebrates

#### REFERENCE BOOKS

- A.J. Marshall, 1995. Textbook of zoology, Vertebrates. (The McMillan Press Ltd., UK). 852 pages. (Revised edition of Parker & Haswell, 1961).
- M. Ekambaranatha-Ayyar, 1973. A manual of zoology. Part II. (S. Viswanathan Pvt. Ltd., Madras).
- P.S. Dhama & J.K. Dhama, 1981. Chordate zoology. (R. Chand & Co.). 550 pages.
- R.L. Kotpal, 2000. Modern textbook of zoology, Vertebrates. (Rastogi Publ., Meerut). 632 pages.
- E.L. Jordan & P.S. Verma, 1998. Chordate zoology. (S. Chand & Co.). 1092 pages.

#### Co-curricular activities (suggested)

Preparation of charts on Chordate classification (with representative animal photos) and retrogressive metamorphosis

Visit to local fish market and identification of local cartilaginous and bony fishes

Maintaining of aquarium by students

Additional input on types of snake poisons and their antidotes (student activity).

Chart preparation for dentition in mammals

#### Changes and Justification:

- No major changes were done for the second semester. Only some topics in some units are reduced for the sake of students
- Some additional inputs are introduced in the syllabus which are related to the students for the competitive exams and for gain of subject knowledge.
- Some topics on animal body systems are introduced on comparative basis from fishes to mammals for easy understanding of the students.

**GOVT. COLLEGE FOR WOMEN (A), GUNTUR**  
**ZOOLOGY PRACTICAL SYLLABUS FOR II SEMESTER ZOOLOGY -**  
**PAPER - II ANIMAL DIVERSITY - BIOLOGY OF CHORDATES**

Periods: 24

Max. Marks: 50

**Learning Outcomes:**

- To understand the taxidermic and other methods of preservation of chordates
- To identify chordates based on special identifying characters
- To understand internal anatomy of animals through demo or virtual dissections, thus directing the student for “empathy towards the fellow living beings”
- To maintain a neat, labeled record of identified museum specimens

**OBSERVATION OF THE FOLLOWING SLIDES / SPOTTERS / MODELS**

1. Protochordata : *Herdmania*, *Amphioxus*, *Amphioxus* T.S through pharynx.
2. Cyclostomata : *Petromyzon* and *Myxine*.
3. Pisces : *Pristis*, *Torpedo*, *Hippocoampus*, *Exocoetus*, *Echeneis*, *Labeo*, *Catla*, *Clarius*, *Channa*, *Anguilla*.
4. Amphibia : *Ichthyophis*, *Amblystoma*, Axolotl larva, *Hyla*,
5. Reptilia: *Draco*, *Chamaeleon*, *Uromastix*, *Testudo*, *Trionyx*, *Russels viper*, *Naja*, *Krait*, *Hydrophis*, *Crocodile*.
6. Aves : *Psittacula*, *Eudynamis*, *Bubo*, *Alcedo*.
7. Mammalia: *Ornithorhynchus*, *Pteropus*, *Funambulus*.

**Dissections-**

1. Scoliodon IX and X, Cranial nerves
2. Scoliodon Brain
3. Mounting of fish scales

- Note:** 1. Dissections are to be demonstrated only by the faculty or virtual.  
2. Laboratory Record work shall be submitted at the time of practical examination.

**REFERENCE BOOKS:**

1. S.S.Lal, Practical Zoology – Vertebrata
2. P.S.Verma, A manual of Practical Zoology – Chordata

Govt. College for Women (A), Guntur  
II B.Sc. Zoology Syllabus, III Semester (W.E.F 2017-18)  
**PAPER III- CELL BIOLOGY, GENETICS AND EVOLUTION(2020-21)**

Course Name: Cell Biology, Genetics and Evolution

Course code: ZOO3307

Periods:60

Credits: 3

Max Marks: 70

**Course learning outcomes**

1. To make the students understand the structure and components of cell
2. To learn the role of nucleus, chromosomes and their role in transmission of characters from parents to offspring
3. To learn the importance of environment and its role in evolution and creation of new species

**Unit – I - Introduction to Cytology and Cell organelles**

- Definition, history, prokaryotic and eukaryotic cells, virus, mycoplasma
- Electron microscopic structure of eukaryotic cell.
- Plasma membrane –Different models of plasma membrane.
- Structure and functions of Endoplasmic Reticulum
- Structure and functions of Golgi apparatus
- Structure and functions of Lysosomes

**Unit – II - Cell organelles & Genetics**

- Structure and functions of Ribosomes
- Structure and functions of Mitochondria
- Structure and functions Nucleus
- Chromatin – Structure, significance, Chromosomes - Structure, types, functions.
- Mendel's work on transmission of traits, Principles of inheritance
- **Additional input:** Barr bodies

**Unit - III - Genetics**

- Interaction of genes -Incomplete dominance and co dominance, Lethal alleles. Epistasis, complementary genes, Sex determination and Sex-linked inheritance , Linkage and crossing over
- Extra chromosomal inheritance , Human karyotyping,
- **Additional input:** Number of chromosomes and their diseases

**Unit - IV - Evolution**

- Origin of life
- Lamarckism, Darwinism, Neo – Darwinism, Hardy-Weinberg Equilibrium.
- Isolating mechanisms, natural selection
- Types of natural selection (directional, stabilizing, disruptive)
- Artificial selection and forces of evolution
- Speciation (Allopatric and Sympatric)
- Darwin finch birds
- **Additional input:** Variations

**Govt. College for Women (A), Guntur**  
**II B.Sc. Zoology Syllabus, IV Semester (W.E.F 2017-18)**  
**(2020-21)**

Course Name: Embryology, Physiology and Ecology

Course code :ZOO4307

Periods:60

Credits:3

Marks: 70

**Course learning outcomes:**

- To make the students understand the importance of reproductive organs and the process of development of new individual
- To understand human systems and physiology of the organs
- To learn the importance of environment, Nutrient cycles and community interactions between organisms
- To understand the fauna of different regions

**Unit - I - Developmental Biology and Embryology**

- Gametogenesis, Fertilization
- Types of eggs , Types of cleavages
- Development of Frog up to formation of primary germ layers
- Formation and functions of Foetal membrane in chick embryo
- Development, types and functions of Placenta in mammals

**Additional input:** Egg laying mammals

**Unit - II - Physiology**

- Elementary study of process of digestion, Absorption of digested food
- Respiration - Pulmonary ventilation
- Circulation - Structure and functioning of heart, Cardiac cycle
- Excretion - Structure of nephron, urine formation, counter current mechanism
- Nerve impulse transmission - Resting membrane potential, origin and propagation of action potentials along myelinated and non-myelinated nerve fibers

**Unit - III Physiology and Ecology**

- Muscle contraction - Ultra structure of muscle fibre, molecular and chemical basis of muscle contraction
- Endocrine glands - Structure, secretions and the functions (of hormones) of pituitary, thyroid, parathyroid, adrenal glands and pancreas
- Hormonal control of reproduction in a mammal
- Meaning and scope of Ecology, Important abiotic factors of Ecosystem - Temperature, light, water
- Nutrient cycles - Nitrogen, carbon and phosphorus

**Unit - IV - Ecology**

- Components of Ecosystem (Example: lake), food chains and food web, energy flow in ecosystem
- Habitat and ecological niche, Ecological succession
- Community interactions - Mutualism, commensalism, parasitism, competition, predation
- Population studies
- Zoogeographical regions, Study of physical and faunal peculiarities of Oriental, Australian and Ethiopian regions

**Additional Input:** Red data animals

Government College for Women (A), Guntur  
III B.Sc. Zoology Syllabus, V Semester (W.E.F 2018-19)  
(2020-21)

Course Name: Animal Biotechnology (paper-V)

Course code: ZOO5307

Periods:60

Credits: 3

Max. Marks: 70

**Course learning outcomes:**

1. To Understand the concept of Biotechnology and its applications in modern age
2. To understand the applications of Biotechnology in India and its role in gene manipulation and cloning
3. To learn the basics of molecular techniques
4. To understand the concept of Genetically modified organisms and their applications

**Unit 1: Introduction to Bio-Technology and its applications:**

Tools of Recombinant DNA technology - Enzymes and Vectors, Restriction modification systems: Types I, II and III. Mode of action, nomenclature, applications of Type II restriction enzymes in genetic engineering, DNA ligases. Cloning Vectors: Plasmid vectors: pBR and pUC series, Bacteriophage lambda and M13 based vectors, Cosmids, BACs, YACs,

**Unit 2 Techniques of Recombinant DNA technology**

Cloning: gene cloning, Gene delivery: Microinjection, electroporation, biolistic method (gene gun), liposome and viral mediated delivery, PCR: Basics of PCR. Hybridization techniques: Southern, Northern and Western blotting, Genomic and cDNA libraries: Preparation and uses

**UNIT 3 Animal Cell Technology**

Cell Culture; Established Cell lines (common examples such as MRC, HeLa, CHO, BHK, Vero); Organ culture; Cryopreservation of cultures.  
Hybridoma Technology: Cell fusion, Production of Monoclonal antibodies (mAb), Applications of mAb.  
Stem cells: Types of stem cells, applications

**Unit 4 Reproductive Technologies, Transgenic Animals & Applied Biotechnology**

Embryo transfer, Embryo cloning. Transgenic Animals: Strategies of Gene transfer; Transgenic - sheep, - fish; applications. Industry: Fermentation: Different types of Fermentation: Short notes on - Submerged & Solid state; batch, Fed batch & Continuous; Stirred tank, Air Lift, Fixed Bed and Fluidized; Downstream processing - Filtration, centrifugation, extraction, spray drying and lyophilization Agriculture: fisheries – monoculture in fishes, polyploidy in fishes.  
**Additional Input : IVF, Gene therapy**

Government College for Women (A), Guntur  
III B.Sc. Zoology Syllabus, VI Semester (W.E.F 2018-19)  
Paper VI- Elective Paper: VIII-(B-1) (W.E.F 2018-19)  
Cluster - AQUACULTURE -PRACTICAL SYLLABUS

PRACTICAL: I

Periods : 24

Max.Marks : 50

**Cultivable fishes**

1. Identification and study of important cultivable and edible fishes - Any ten
2. Identification and study of important cultivable and edible crustaceans - Any five
3. Identification and study of common aquarium fishes - Any five
4. General description and recording biometric data of a given fish.

**Diseases**

1. Identification and study of fish and shrimp diseases - Using specimens / pictures
2. External examination of the diseased fish - diagnostic features and procedure.
3. Autopsy of fish - Examination of the internal organs.
4. Determination of dosages of chemicals and drugs for treating common diseases.

**Pond Management**

1. Water Quality -Determination of temperature, pH, salinity in the pond water sample
2. Estimation of dissolved oxygen, free carbon dioxide, total alkalinity, total hardness, phosphates and nitrites.
3. Soil analysis - Determination of soil texture, pH, conductivity, available nitrogen, available phosphorus and organic carbon.
4. Identification and study of common zooplankton, aquatic insects and aquatic weeds - Each 5

**Government College for Women (A), Guntur**  
**III B.Sc. Zoology Syllabus, VI Semester (W.E.F 2018-19)**  
**Paper VI - Cluster Elective Paper: VIII-B-2, POST HARVEST TECHNOLOGY**

Course Name: **Post Harvest Technology**

Course Code: **ZOO8307B3**

Periods : **60**

**Credits:3**

**Max.Marks : 70**

**Course Learning Outcomes:**

1. To provide Knowledge about different steps involved in induced breeding in fish.
2. To impart knowledge about water quality management in fish and shrimp culture
3. To impart knowledge about Feed formulation and disease management in fish and shrimp culture
4. To understand the marketing procedures involved in fisheries sector

**Unit – I Handling and Principles of fish Preservation**

- Handling of fresh fish, storage and transport of fresh fish, post mortem changes (rigor mortis and spoilage), spoilage in marine fish and freshwater fish.
- Principles of preservation– cleaning, lowering of temperature, rising of temperature, denudation, use of salt, use of fish preservatives, exposure to low radiation of gamma rays.

**Unit – II Processing and preservation of fish products**

- Methods of fish Preservation-Traditional methods - sun drying, salt curing, pickling and smoking. - Advanced methods – chilling or icing, refrigerated sea water, freezing, canning, Irradiation and Accelerated Freeze drying (AFD).
- Fish products – fish minced meat, fish meal, fish oil, fish liquid (ensilage), fish protein concentrate, Surimi, fish chowder, fish cake, fish sauce, fish salads, fish powder, pet food from trash fish, fish manure.

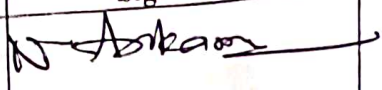
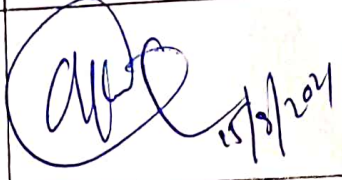
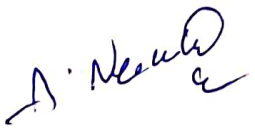

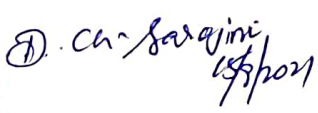


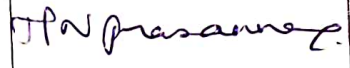
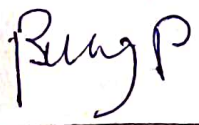
**Unit – III Sanitation, Quality control and preservation of fish and fish by-products**

- Sanitation in processing plants - Environmental hygiene and Personal hygiene in processing plants.
- Fish by-products – fish glue, ising glass, chitosan, pearl essence, shark fins, fish leather and fish maws.
- Seaweed Products - Preparation of agar, algin and carrageen.
- Use of seaweeds as food for human consumption, in disease treatment and preparation of therapeutic drugs.

**Unit IV Sanitation and Quality Assurance, Management and Certification**

- Quality Control of fish and fishery products – pre-processing control, control during processing and control after processing.
- Seafood Quality Assurance and Systems: Good Manufacturing Practices (GMPs); Good Laboratory Practices (GLPs); Standard Operating Procedures (SOPs);
- Concept of Hazard Analysis and Critical Control Points (HACCP) in seafood safety.
- National and International standards – ISO 9000: 2000 Series of Quality Assurance System, Codex Alimentarius.

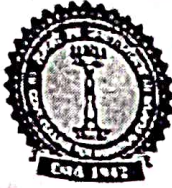
**Signature sheet Board of Studies - Members**

S.No	Name of the Member	Designation	Signature
1	Dr N. Ankamma, M.Sc., M.Ed. DIIRD., Ph.D, NET Lecturer in-charge, Dept of Zoology, Govt. College for Women (A), Guntur Mobile: 9247108016 E-mail Id: ankamma1970@gmail.com	Chair person	
2	Dr.Sumanth Kumar, M.FSc., Ph.D Associate Professor, Dept. of Zoology, Acharya Nagarjuna University, Guntur Mobile: 9866652712 E-mail Id: kunda2@gmail.com	University Nominee	
3	Dr.Nagesh, M.Sc., Fisheries Managing Director, Krishna Hatcheries, Near Rama Temple, Besthapalem, Bapatla Mobile: 9494405631 E-mail Id: nageshbabuananth@gmail.com	Special Invitee from allied area	
4	Dr.M.Vijaya Kumar., M.Sc., Fisheries Associate Professor, Department of Zoology SRR & CVR Government Degree College (A) Vijayawada-520004 Mobile: 9490086886 Email Id: mekalavkumar@gmail.com	Subject Expert	
5	Dr.Ch.. Sarojini, M.Sc., Ph.D Associate Professor Dept of Zoology, JMJ College(A), Tenali Mobile: 8121206495 E-mail Id: sarojinichivuluri@gmail.com	Subject Expert	
6	Sri.K.Veeranjaneyulu, B.A Annadata Vermicompost, Gorantla Mobile: 9948204274, 8978794499.	Industrialist	
8	Dr. M.Hanumantha Raju, M.Sc., Ph.D Lecturer in Zoology, GCW(A), Guntur Mobile: 94411 30264 E-mail Id: drhanumantharajus@gmail.com	Member	
9	Dr.M.Naga Prasanna, M.Sc., Ph.D Lecturer in Zoology, GCW(A), Guntur Mobile: 9246452235 E-mail Id: prasannakarempudi@gmail.com	Member	
10	Dr.Diana Satya Latha, M.Sc., Ph.D Lecturer in Zoology, GCW(A), Guntur Mobile: 81254 35341 E-mail Id: dianab41063@gmail.com	Member	
11	Dr..S.J.M. Prathap Kumar M.Sc., B.Ed, APSET, Ph.D Lecturer in Zoology, GCW(A), Guntur Mobile: 73868 86665	Member	



**Govt. College for Women**  
**(AUTONOMOUS) - GUNTUR. 1942 (Estd.)**  
**College with Potential for Excellence**

**Board of Studies**  
**(2020-21)**  
**Department of Computer Science**



**Govt. College for Women**  
**(AUTONOMOUS) - GUNTUR. 1942 (Estd.)**  
**Centre with Potential for Excellence**

PROCEEDINGS OF THE PRINCIPAL

Present: Dr. V.R. Jyothsna Kumari

Proceedings RC No - BoS (2020-2021) - 1 dated 14-08-2020  
Sub:- Conduction of BoS Meeting for I,III and V Semesters Reg.

Ref:- Letter from Academic Coordinator. Lr. No. GCW(A)/ACAD/2020-2021 – BoS (2020-2021) – 1 /dt14-08-2020.

In Pursuance of the UGC Guidelines and as per the reference cited above, all the in-charges of the Department are requested to identify the gaps in the curriculum and do needs analysis in the concern subjects and finalize the syllabus for I,III and V semesters after thorough discussion with the members of the department and proceed for the conduction of Board of Studies Meeting.

Prior to this the in-charges are also requested to constitute BoS committees and submit the list of BoS members to the academic council on or before 25/08/2020.

*V.R. Jyothsna Kumari*  
Principal 17/8/2020

Copy to,

1. The in-charges of all the Departments.
2. The Academic Coordinator
3. IQAC Coordinator
4. Controller of Examinations.

PRINCIPAL  
GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR.

## Agenda Notes

### **1. Approval of Course Curriculum and Credits for B.Sc. (Computer science) and B.Com(Computer Applications).**

To consider the approval of course curriculum as per Annexure-1.

### **2. Approval of syllabus for I, II & III B.Sc Computer Science.**

To consider the approval of syllabus for all courses of B.Sc. (Computer Science) as per Annexure-2.

### **3. Approval of syllabus for I B.Com., II B.Com. & III B.Com. (Computer Applications) and I B.Com. Financial Banking(Computer Science related papers)**

To consider the approval of syllabus for computer science core papers of B.Com. Computer Applications and B.Com. Financial Banking as per Annexure-3.

### **4. Approval of syllabus for Life Skills courses and Skill Development Courses papers.**

i. To implement APSICHE suggested Life skill courses and Skill Development Courses whose syllabus is placed in Annexure-4.

ii. Students have two hours theory per week. Practicals are only for hands on experience and they do not have separate practical exam.

iii. No internal assessment for life skill course and skill development courses.

### **5. Approval of practical syllabus for B.Sc. (Computer Science),**

i. Lab syllabus for different courses in B.Sc. (Computer Science), is placed before Board of Studies for approval.

ii. B.Sc.(Computer Science) will have external practical exams.

### **6. Approval of practical syllabus for I, II & III B.com.(Computer Applications).**

As per university curriculum, B.Com (computer applications) students do not have practical exam. But to enhance skill based learning, we are proposing to adopt practical examination as internals for B.Com students.

### **7. Approval of syllabus (Theory & Practical) for Certificate Course in "Film Making".**

Syllabus and model paper of the certificate course as per Annexure-5 is presented to the board of studies for approval.

### **8. Approval of syllabus proposed Certificate Course in "Sound Engineering".**

Syllabus and model paper of the certificate course as per Annexure-6 is presented to the board of studies for approval.

**9. Approval of model papers and blue print.**

Model papers and blue prints of B.Sc.(Computer science), I B.Com. Financial Banking, B.Com. (Computer applications), Life Skills courses, Skill Development Courses and Certificate courses are submitted to Board of Studies for discussion.

**10. Approval of Pattern for Internal Assessment.**

Pattern for Internal Assessment in Annexure-7 is placed before Board of Studies for discussion.

**11. Approval of Department Activities.**

Proposed Departmental activities in Annexure-8 are placed before Board of Studies for Consideration and approval.

**12. Approval of panel of Question paper setters/Examiners.**

List in Annexure-9 is placed before Board of Studies for consideration and approval.

**Govt. College for Women(Autonomous), Guntur**  
**Department of Computer Science**  
**I B.A/B.COM/B.SC - Life Skill Courses**

**SEMESTER-I**

Course code : Life skill course  
Hours : 30

Course Title : Basic Computer Applications  
Credits : 2

**Objectives:** This course aims at providing exposure to students in skill development towards basic office applications.

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

1. Demonstrate basic understanding of computer hardware and software.
2. Apply skills and concepts for basic use of a computer.
3. Identify appropriate tool of MS office to prepare basic documents, charts, spreadsheets and presentations.
4. Create personal, academic and business documents using MS office.
5. Create spreadsheets, charts and presentations.
6. Analyze data using charts and spread sheets.

**Unit-I: (08 hrs)**

**Basics of Computers:** Definition of a Computer - Characteristics of computers, Applications of Computers - Block Diagram of a Digital Computer - I/O Devices, hardware, software human ware, application software, system software, Memories - Primary, Auxiliary and Cache Memory.

**MS Windows** - Desktop, Recycle bin, My Computer, Documents, Pictures, Music, Videos, Task Bar, Control Panel.

**Unit-II: (08 hrs)**

**MS-Word :** Features of MS-Word - MS-Word Window Components - Creating, Editing, Formatting and Printing of Documents - Headers and Footers - Insert/Draw Tables, Table Auto format - Page Borders and Shading - Inserting Symbols, Shapes, Word Art, Page Numbers, Mail Merge.



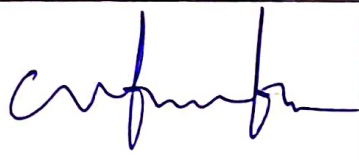
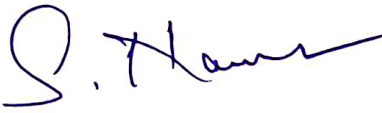

**Unit-III: (10 hrs)**


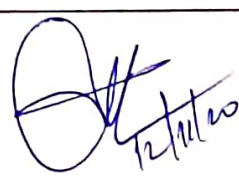




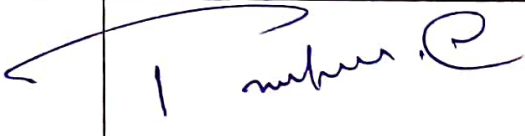

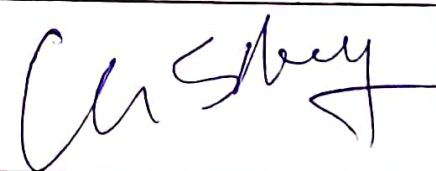
**MS-Excel :** Overview of Excel features - Creating a new worksheet, Selecting cells, Entering and editing Text, Numbers, Inserting Rows/Columns - Changing column widths and row heights, Formulae, Referencing cells, Changing font sizes and colors; Insertion of Charts, Auto fill, Sort.

**MS-PowerPoint:** Features of PowerPoint - Creating a Presentation - Inserting and Deleting Slides in a Presentation - Adding Clip Art/Pictures - Inserting Other Objects, Audio, Video - Resizing and scaling of an Object - Slide Transition - Custom Animation.

### Certificate

The syllabus, model question papers including blue print in computer science subject for I,II,III, IV,V & VI semesters of B.Sc./B.Com./B.A. courses both Core papers and Life Skill courses, Skill Development Course papers, syllabus and model papers of Certificate Courses in "Film Making" and "Sound Engineering" for the academic year 2020-2021, panel of examiners and paper setters, allocation of credits, blue print for internal assessment, Departmental Activities, etc., as mentioned in the annexures 1,2,3,4,5,6,7,8 and 9 are approved in the Board of Studies meeting held online through the Zoom platform by the Department of Computer Science on 12-11-2020 and is recommended for the approval of academic council.

Sl. No	Name of the Board of Studies Member	Signatures
1	Smt. Shaheda Akthar - Chair Person Incharge of Computer Science Mobile No: 9885834601 Mail Id: <a href="mailto:shahedaakthar@yahoo.com">shahedaakthar@yahoo.com</a> <a href="mailto:shahedaakthar76@gmail.com">shahedaakthar76@gmail.com</a>	
2	Prof. K.Gangadhar Rao - University Nominee Prof. of Computer Science, Acharya Nagarjuna University, Guntur. Mobile No: 9440866588 Mail Id: <a href="mailto:kancherla123@gmail.com">kancherla123@gmail.com</a>	
3	Sri. Ch. Kiran Kumar - Expert from outside Principal & Head of Computer Science, Vignan Degree College, Guntur Mobile No: 9885230445 Mail Id: <a href="mailto:vignan.kiran@gmail.com">vignan.kiran@gmail.com</a>	
4	Dr. F.A.B. Nehru - Expert from outside Head of the Dept. of Computer Science, Andhra Loyola College, Vijayawada. Mobile No: 8897072950 Mail Id: <a href="mailto:sabnehr@gmail.com">sabnehr@gmail.com</a>	
5	Sri. D. Suman - Industry Nominee Senior Consultant(Project Management), Infosys Limited, Hyderabad. Mobile No: 9701118275 Mail Id: <a href="mailto:daliparthysuman@yahoo.com">daliparthysuman@yahoo.com</a>	

6	Smt. D. Divya Durga Devi - Alumni Nominee Senior Assistant in District Collectorate, Guntur Mobile No: 9492712614 Mail Id: <a href="mailto:divya86.dasari@gmail.com">divya86.dasari@gmail.com</a>	
7	Smt. K. Deepthi - Member Regular Lecturer in Computer Science Mobile No: 7729090929 Mail Id: <a href="mailto:deepthi.sw@gmail.com">deepthi.sw@gmail.com</a>	
8	Smt. V.Padmavathi - Member Regular Lecturer in Computer Science Mobile No: 9182983891 Mail Id: <a href="mailto:padmavaka527@gmail.com">padmavaka527@gmail.com</a>	
9	Ms. G.V.S Pranayani Devi - Member Regular Lecturer in Computer Science Mobile No: 7893798256 Mail Id: <a href="mailto:pranayanidevi@gmail.com">pranayanidevi@gmail.com</a>	
10	Smt. N.Rajya Lakshmi - Member Regular Lecturer in Computer Science Mobile No: 9542938427 Mail Id: <a href="mailto:rajigdc81@gmail.com">rajigdc81@gmail.com</a>	
11	Smt. P. Rajya Lakshmi - Member Guest Faculty in Computer Science Mobile No: 7981459552 Mail Id: <a href="mailto:balisetty.charvi@gmail.com">balisetty.charvi@gmail.com</a>	
12	Sri. D. Praveen Kumar - Member Guest faculty in Computer Science Mobile No: 9703779978 Mail Id: <a href="mailto:praveenkumar2010@gmail.com">praveenkumar2010@gmail.com</a>	
13	Sri. P. Babu - Member Guest faculty in Computer Science Mobile No: 9885377653 Mail Id : <a href="mailto:kpbabuarts@gmail.com">kpbabuarts@gmail.com</a>	
13	Sri. Ch. Sudhakar- Lecturer incharge in Commerce Mobile No: 9291275355 Mail Id: <a href="mailto:chirrasudhakar@gmail.com">chirrasudhakar@gmail.com</a>	

**GOVERNMENT COLLEGE FOR WOMEN (A), GUNTUR**

**B.A. Sociology, 2<sup>nd</sup> Semester - Syllabus**

**Paper: Sociology of Indian Society**

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**Unit – I**

India is a plural society, Unity in Diversity; Traditional Hindu Organization- Asharama Dharmas, Purusharthas

**Unit- II**

Social Institutions and their Changing dimensions: Caste, Tribe, Family and Kinship

**Unit – III**

Social Change in India, Islamization, Sanskritization, Westernization and Globalization

**Unit – IV**

Social Movements in India: Dalit Movement, Backward Class Movement, **Women's Movement**, and Agrarian (Kisan) Movement

**Unit – V**

Indian Society and its Challenges: Communalism, Secularism, Regionalism, **Gender discrimination**, Terrorism

**GOVERNMENT COLLEGE FOR WOMEN (A), GUNTUR**  
**III B.A Sociology, 5<sup>th</sup> Semester - Syllabus**  
**Paper-VI: Rural Sociology and Development**

\*\*\*

**Unit-I**

Rural Sociology: Introduction, Scope, Need and Importance of Rural Sociology, Rural Social Structure

**Unit-II**

Rural Social Problems: Rural Poverty, Illiterates, Rural Health, Unemployment

**Unit-III**

Major Agrarian Movements: Malbar Movement, Champaran Movement, Anti Zamindari Struggle and others struggles

**Unit-IV**

Farmer Problems and Farmers Suicides; Panchayati Raj and Village Factions

**Unit-V**

Green, White and Blue Revolutions and Sustainable Development, Rural Development and Welfare Programmes

**DEPARTMENT OF URDU**  
**GOVERNMENT COLLEGE FOR WOMEN**  
**( AUTONOMOUS ), GUNTUR**  
**NAAC Accredited 'A' Grade**

**Board of Studies Meeting (Urdu) on**  
**14 -09 -2021**

**Academic Year 2021 – 22**



**DEPARTMENT OF URDU**  
**GOVERNMENT COLLEGE FOR WOMEN (A)**  
**GUNTUR**  
**2021-22**

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		I Semester URDU Syllabus Out comes	
		I Semester URDU Model Question Paper	
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9	2021 - 22	CERTIFICATE OF BOARD OF STUDIES (URDU)	

## OBJECTIVES AND OUTCOMES

For

**First Year Degree Course – Second Language**

**Part - 1(b) Paper – I: Urdu Poetry (Semester – 1)**

Objectives and Outcomes for The Course Urdu Poetry

*Objectives as per the Bloom's Taxonomy: Knowledge, Comprehension, Application, Analysis, Synthesis, and Evaluation for the **Remembering, Understanding, Applying and Analyzing, Evaluating and Creating.***

By the end of the course the students will demonstrate the following on completion of this course, the students will be able to:

- Know about Urdu new and old poets and their poetry of Ghazals.
- Remember all the basic concepts of Urdu Ghazal.
- Read, understand and enjoy Urdu poems.
- To Create interest among students in literature.
- **Developing communication skills.**
- **Creating awareness in the students about life attitude and environment.**

## OUTCOMES

of

**First year Degree Course Second Language**

**Part - 1(b) Paper – I: Urdu Poetry (Semester – 1)**

At the end of the course, the student is expected to demonstrate the following Cognitive abilities (thinking skill) and Psychomotor Skills as per the Bloom's Taxonomy:

*Knowledge, Comprehension, Application, Analysis, Synthesis, and Evaluation for the Remembering, Understanding, Applying and Analyzing Evaluating and Creating.*

- A. Remember all the basic concepts (Knowledge)
  - 1. Contributions of the poets in Literature
- B. Explains (Understanding)
  - 2. Beauty of the Urdu Ghazals
  - 3. Beauty and theme of the Urdu poems
- C. Critically examines, (Analysis and Evaluation)
  - 4. Thinking and Creativity of the deferent poets.
- D. Appraises (Evaluate)
  - 5. Urdu Ghazal and Nazm
  - 6. The Rise and Growth of Ghazal and Nazm
- E. Examines (Analyze)
  - 7. Differs between New and old Ghazal and Nazm
- F. Investigates (Create)
  - 8. Creating awareness int students about life attitude and environment.
- G. Writes Ghazal and Nazm in their own words (Practical skills)

## **OBJECTIVES AND OUTCOMES**

**For**

**First year Degree Course Second Language**

**Part - 1(b) Paper – II: Urdu Poetry (Semester – 2)**

## Objectives and Suggested Outcomes for The Course Urdu Poetry

*Objectives as per the Bloom's Taxonomy: Knowledge, Comprehension, Application, Analysis, Synthesis, and Evaluation for the **Remembering, Understanding, Applying and Analyzing, Evaluating and Creating.***

By the end of the course the students will demonstrate the following on completion of this course, the students will be able to:

- Know about the Classical and Modern Poets of Urdu and their poetry.
- Remember all the basic concepts of Urdu Masnavi.
- To create interest and awareness about the Indian Heritage and culture.
- To train the students in speaking, reading and writing skills.
- To create interest in Poetry Recitation among the students.
- Developing the Research skills in literature.

### **OUTCOMES**

of

**First Year Degree Course Second Language**

**Part - 1(b) Paper – II: Urdu Poetry (Semester – 2)**

At the end of the course, the student is expected to demonstrate the following Cognitive abilities (thinking skill) and Psychomotor Skills as per the Bloom's Taxonomy:

*Knowledge, Comprehension, Application, Analysis, Synthesis, and Evaluation for the **Remembering, Understanding, Applying and Analyzing Evaluating and Creating.***

A. Remember all the basic concepts (knowledge)

1. Contributions of the poets in literature

B. Explains (Understanding)

2. Theme of the of the Urdu Masnavi, Marsiya, Qasida and Rubayee

3. Beauty and theme of the Urdu poems

C. Critically examines, (Analysis and Evaluation)

4. Thinking and Creativity of the deferent poets of Masnavi, Marsiya and Qasida

D. Appraises (Evaluate)

5. Urdu Masnavi, Marsiya, Qasida, Rubayee and Nazm

6. The Rise and Growth of Masnavi, Marsiya, Qasida and Rubayee

E. Examines (Analyze)

7. Differs between Masnavi, Marsiya, Qasida and Rubayee

F. Investigates (Create)

8. Creating awareness int students about life attitude and environment.

G. Writes Masnavi, Marsiya, Qasida and Rubayee in their own words (Practical skills)

## OBJECTIVES AND OUTCOMES

For

Second year Degree Course Second Language

Part - 1(b)Paper – III: Urdu Prose Fiction (Semester – 3)

Objectives and Suggested Outcomes for The CouseUrdu Prose – Fiction

*Objectives as per the Bloom’s Taxonomy: Knowledge, Comprehension, Application, Analysis, Synthesis, and Evaluation for the **Remembering, Understanding, Applying and Analyzing, Evaluating and Creating.***

By the end of the course the students will demonstrate the following on completion of this course, the students will be able to:

- Know about the Urdu Novel, Drama, Afsana and Dastan
- Remember all the basic concepts of Urdu Novel, Drama, Afsana and Dastan
- To provide basic and essential knowledge of Urdu Fiction.

- To train the students in speaking, reading and writing skills.
- To create interest in Writing own essay in Urdu among the students.

## OUTCOMES

of

### SecondYear Degree Course Second Language

#### Part - 1(b)Paper – III: Urdu Prose Fiction (Semester – 3)

At the end of the course, the student is expected to demonstrate the following Cognitive abilities (thinking skill) and Psychomotor Skills as per the Bloom's Taxonomy:

*Knowledge, Comprehension, Application, Analysis, Synthesis, and Evaluation for the **Remembering, Understanding, Applying and Analyzing Evaluating and Creating.***

- A. Remember all the basic concepts (knowledge)
  - 1. Contributions of the Writers in Urdu literature
- B. Explains (Understanding)
  - 2. Theme of the of the Urdu Novel, Drama, Afsana and Dastan
  - 3. Heritage and Culture of the Urdu Novel, Drama, Afsana and Dastan
- C. Critically examines, (Analysis and Evaluation)
  - 4. Creative Thinking in view of the Novel, Drama, Afsana and Dastan
- D. Appraises (Evaluate)
  - 5. Urdu Novel, Drama, Afsana and Dastan.
  - 6. The Rise and Growth of Urdu Novel, Drama, Afsana and Dastan
- E. Examines (Analyze)
  - 7. Differs between Urdu Novel, Drama, Afsana and Dastan
- F. Investigates (Create)
  - 8. Creating awareness in the students about life attitude and environment.

G. Create interest in Writing own essay in Urdu among the students (Practical skills)

## OBJECTIVES AND OUTCOMES

For

SecondYear Degree Course Second Language URDU

Part - 1(b)Paper – IV: Urdu Prose Non Fiction (Semester – 4)

Objectives and Suggested Outcomes for The Course Urdu Prose – Fiction

*Objectives as per the Bloom's Taxonomy: Knowledge, Comprehension, Application, Analysis, Synthesis, and Evaluation for the **Remembering, Understanding, Applying and Analyzing, Evaluating and Creating.***

By the end of the course the students will demonstrate the following on completion of this course, the students will be able to:

- Know about Urdu about GhairAfsanaviAbdab like khutoot, Safarnama, Inshaya.
- Gain the knowledge of art of writing essay in Urdu
- To create awareness on all the basic concepts of Urdu Essay, khutoot, Safarnama, Inshaya.
- To train the students to Read and learn about famous Urdu khutoot, Safarnama.
- Read and learn about famous Urdu khutoot and Safarnama.

## OUTCOMES

For

Second year Degree Course Second Language

Part - 1(b)Paper – IV: Urdu Prose Non Fiction (Semester – 4)

At the end of the course, the student is expected to demonstrate the following Cognitive abilities (thinking skill) and Psychomotor Skills as per the Bloom's Taxonomy:

*Knowledge, Comprehension, Application, Analysis, Synthesis, and Evaluation for the Remembering, Understanding, Applying and Analyzing Evaluating and Creating.*

A. Remember all the basic concepts (knowledge)

1. Contributions of the Writers in Urdu literature

B. Explains (Understanding)

2. Theme of the of the Urdu Essay, Khutoot, Safarnama, and Inshaya.

C. Critically examines, (Analysis and Evaluation)

4. Thinking and Creativity of the deferent Writers of Urdu Essay, Khutoot and Safarnama.

D. Appraises (Evaluate)

5. Urdu Essay, Khutoot, Safarnama and Inshaya.

6. The Rise and Growth Essay, Khutoot, Safarnama and Inshaya.

E. Examines (Analyze)

7. Differs between Urdu Essay, Khutoot, Safarnama and Inshaya.

F. Investigates (Create)

8. Creating awareness into the students about life attitude and environment.

G. Create interest in Writing Own Essay, Khutoot, Safarnama and Inshaya. (Practical skills)

**Syllabus for (B.A./ B.Com. / B.Sc.) U.G. under CBCS**

**Second Language – Urdu**

First year Degree Course Second Language Part - 1(b)

Paper – I: URDU POETRY

SEMESTER - I

UNIT – I

1. GHAZAL

MEER – *Raah-e-Daur-e-Ishq me Rootahaikya*

2. NAZM

Nazeer Akbarabadi – *Kaljug*

UNIT – II

1. GHAZAL

GHALIB – *Dard Minnatkash-e-Dawanahua*

2. NAZM

SHIBLI – *Adl-e-Farooqi*

UNIT – III

1. GHAZAL

MOMIN – *Who jo Hum me Tum me Qaraartha*

2. NAZM

IQBAL – *Chaandaur Tare*

UNIT – IV

1. GHAZAL

DAGH DEHLAVI – *Duniya me Aadmi ko Museebat Kahan nahi*

2. NAZM

AKBAR – *Naseehat-e-Akhlaqi*

**UNIT – V**

**1. GHAZAL**

**JIGAR MURADABADI – *Koi Ye Kehde Gulshan Gulshan***

**2. NAZM**

**FAIZ – *Lauh-o-Qalam***

**SUGGESTED READING:**

**URDU SHAIRY KA FANNI IRTEQA – FARMAN FATEHPOOR**

**URDU GHAZAL – KAAMIL QURAIISHI**

**URDU SHAIRI KA TANQEEDI MUTA'A – SUMBUL NIGAAR**

**Syllabus for (B.A./ B.Com. / B.Sc.) U.G. under CBCS**

**Second Language – Urdu**

**First Year Degree Course Second Language Part - 1(b)**

**Paper – II: URDU POETRY**

**SEMESTER - II**

**UNIT – I**

**MASNAWI**

MEER HASAN – *Aaghaaz-e-Dastaan* (Sehrul Bayan)

UNIT – II

MARSIYA

MEER ANEES – *Jab Qataa Ki Masafat-e-ShabAaftaab ne*  
)Ibtedayi 6 Bandh(

UNIT – III

QASEEDA

GHALIB – *Dar Madh-e- Bahadur Shah Zafar*  
(*HaanMahe Nau Sunen Hum Uska Naam*)

UNIT – IV

RUBAIYAAT

AMJAD HYDERABADI

1. *RutbaJiseDuniya me KhudaDetahai*
2. *Har Cheez Mussabab-e-Sabab se Maangoo*

SAGHAR JAYYEDI

1. *Tareefki Meezan pe Tuljatehain*
2. *Zulmat ka ToofanUthadetahai*

UNIT – V

TA'ARUF

MuthtasarTa'arufaurSawanehiHaalat

1. *Amjad Hyderabadadi*
2. *Saghar Jayyedi*

**SUGGESTED READING:**

URDU SHAIRI KA TANQEEDI MUTA'A – SUMBUL NIGAAR  
TAREEK-E-ADAB-E-URDU – NOORUL HASAN NAQUI  
MUKHTASAR TAREEK-E-ADAB-E-URDU – EJAZ HUSSAIN

**Syllabus for (B.A./ B.Com. / B.Sc.) U.G. under CBCS**

**Second Language – Urdu**

**Second Year Degree Course Second Language Part - 1(b)**

**Paper – III: Urdu Prose Fiction**

**SEMESTER - III**

**UNIT – I                      AFSANAWI ADAB KA TA'ARUF**

**UNIT – II                      DASTAN**  
*ShuruQisse ka (Baagh-oBahar: Meer Amman)*

**UNIT – III                      NOVEL**

*Kaleem ka Mirza Zahirdaar Baig keyahan Mehmaan Jana* (Taubatun Nasooh: Dy. Nazeer Ahmed)

UNIT – IV

DRAMA

*Gud Ki Makhkhiyaan* (Dr. Kareem Roomani)

UNIT – V

AFSANA

*Ek Aur Din* (Abdus Samad)

**SUGGESTED READING:**

URDU SHAIRI KA TANQEEDI MUTA'A – SUMBUL NIGAAR

TAREEK-E-ADAB-E-URDU – NOORUL HASAN NAQUI

MUKHTASAR TAREEK-E-ADAB-E-URDU – EJAZ HUSSAIN

**Syllabus for (B.A./ B.Com. / B.Sc.) U.G. under CBCS**

**Second Language – Urdu**

**SecondYear Degree Course Second Language Part - 1(b)**

**Paper – III : Urdu Prose Non Fiction**

**SEMESTER - IV**

**URDU PROSE NON FICTION**

**UNIT – I**                      **GHAIR AFSANAWI ADAB KA TA'ARUF**

**UNIT – II**                      **MAZMOON**  
*Guzra Hua Zamana (Sir Syed)*

**UNIT – III**                      **KHAKA**  
*Nam Dev Maali (Baba-e-Urdu Maulvi Abdul Haq)*

**UNIT – IV**                      **INSHAIYYA**  
*Diyasalaai (Khaja Hasan Nizami)*

**UNIT – V**

**KHUTOOT-E-GHALIB**

1. *Hatim Ali Mehrke Naam*
2. *Meer Mehdi Majroohke Naam*

**SUGGESTED READING:**

**GAIR AFSANAVI URDU NASR – ATIYA RAYEES  
INSHAIYA AUR INSHAIYE – SYED MOHAMMED HASNAIN  
GHALIB KE KHUTOOT – KHALIQ ANJUM**

**GOVERNMENT COLLEGE FOR WOMEN**

**GUNTUR**

**(AUTONOMOUS)**

**NAAC Accredited 'A' Grade**

**BOARD OF STUDIES MEETING**

on

**14-09-2021**



**Minutes of Board of Studies**

**DEPARTMENT OF TELUGU**

# **CURRICULAM FOR LEADERSHIP EDUCATION**

**Recommended by**

**The Board of Studies in Telugu**

**For the approval of  
The Academic Council**

**Submitted by  
Department of Telugu**

# GOVERNMENT COLLEGE FOR WOMEN (A), GUNTUR

## BOS – Leadership Education (2021–22)

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## COMPOSITION OF BOARD OF STUDIES

<b>S.No.</b>	<b>Name of the Member</b>	<b>Designation</b>
1	Dr. N. VIJAYALAKSHMI, M.A., Ph.D.	Chairman
2	Dr. K. SUJATHA, M.A., Ph.D.	Member
3	Dr. G. SWARNALATHA, M.A., Ph.D.	Member
4	Dr. CH. ANITHA, M.A., Ph.D.	Member
5	Dr. G. GOWRI, M.A., Ph.D.	Member
6	Dr. P. VIJAYA KUMAR, M.A., M.Phil., Ph.D. Assistant Professor in Telugu Central University of Andhra Pradesh , Anantapur.	Subject Expert
7	Dr. K. Balakrishna, M.A., Ph.D. H.O.D., S.R.R & C.V.R Govt. Degree College (A) Vijayawada	Subject Expert
8	Dr. E. MADHAVI, M.A., M.Phil., Ph.D. Associate Professor Acharya Nagarjuna University, Guntur	University Representative
9	Sri A.M.R. ANAND Anand Books.com Naidupeta, Guntur	Representative from Industry
10	Smt. M. KAVITHAVALLI, M.A	Alumni

## **STAFF MEMBERS OF THE DEPARTMENT**

- 1. Dr. N. VIJAYALAKSHMI, M.A., Ph.D**
- 2. Dr. K. SUJATHA, M.A., Ph.D**
- 3. Dr. G. SWARNALATHA, M.A., Ph.D**
- 4. Dr. CH. ANITHA, M.A., Ph.D**
- 5. Dr. G. GOWRI, M.A., Ph.D**

# **AGENDA**

**The agenda of the meeting of Board of Studies in Leadership Education is to recommended to the Academic Council for the approval of the following items.**

- 8 – BOS – 1 : Structure of Modules**
- 8 – BOS – 2 : Semester wise Syllabus**
- 8 – BOS – 3 : Blueprint**
- 8 – BOS – 4 : Model Question Paper**
- 8 – BOS – 5 : Internal & External Evaluation**
- 8 – BOS – 6 : Subject wise Credit System**
- 8 – BOS – 7 : Syllabus, Blueprint, Model Question Paper for Certificate Course**
- 8 – BOS – 8 : Internal Evaluation, Credit System for Certificate course**
- 8 – BOS – 9 : Project Work**
- 8 – BOS – 10 : Departmental Activities**
- 8 – BOS – 11: List of Examiners and Paper Setters**
- 8 – BOS – 12: Any other proposal with the permission of the chair.**

# **CURRICULAM FOR LEADERSHIP EDUCATION**

**Recommended by**

**The Board of Studies in Telugu**

**For the approval of  
The Academic Council**

**Submitted by  
Department of Telugu**

# **CURRICULAM FOR LEADERSHIP EDUCATION**

**Recommended by**

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The Academic Council**

**Submitted by  
Department of Telugu**

**Andhra Pradesh State Council of Higher Education  
B.A. /B.Com./B.Sc., Degree Examination  
Foundation Course – SYLLABUS  
Second Year – Semester – IV  
LEADERSHIP EDUCATION**

**Units – 5**

**Hours – 30**

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**Unit – I**

**Organisation – Management – Leadership – Meaning and Significance – Different theories – Trait Theory, Blake & Mountain theory – Other functions of Management.**

**Unit – II**

**Behavioural Concept – Individual Behaviour – Perception – Learning – Attitude Formation and Change – Motivation – Personality Development.**

**Unit – III**

**Interpersonal Behaviour – Communication – Leadership – Influencing Relations – Transactional Analysis.**

**Unit – IV**

**Group Dynamics – Roles – Morale – Conflict – Groups – Inter Group Behaviour – Inter Group Collaboration and Conflict Management.**

**Unit – V**

**Team Building and Management – Developing team resources – Designing team – Participation and Repercussion – Team building activities.**

ప్రభుత్వ మహిళా కళాశాల (స్వయం ప్రతిపత్తి), గుంటూరు

నాయకత్వ విద్య

నాల్గవ సెమిస్టర్ - పాఠ్య ప్రణాళిక

Units - 3

Hours - 30

యూనిట్ - I

వ్యవస్థ - నిర్వహణ - నాయకత్వం - అర్థం - ప్రాధాన్యత - వివిధ సిద్ధాంతాలు - గురుతు లేదా చిహ్నా  
నాణ్యతా సిద్ధాంతము, బ్లెక్ మరియు మౌంటేస్ సిద్ధాంతము - నిర్వహణ యొక్క ఇతర విధులు.

యూనిట్ - II

ప్రవర్తనాంకం - వ్యక్తిగత ప్రవర్తన - గ్రాహ్యము - అభ్యసనము - దృక్పథ రూపము మరియు మార్పు -  
ప్రేరణ - ప్రేరణ సిద్ధాంతాలు - వ్యక్తిత్వ అభివృద్ధి.

యూనిట్ - III

స్వయం ప్రవర్తన - సమాచారము - నాయకత్వము - సంబంధాల ప్రభావం - వ్యవహారాల విశ్లేషణ.

యూనిట్ - IV

సమూహ చైతన్యము - పాత్రలు - నైతికత - సంఘర్షణ - అంతర సమూహ ప్రవర్తన - అంతర సమూహ  
సహాయకులు - మరియు సంఘర్షణ నిర్వహణ.

యూనిట్ - V

బృంద నిర్మాణము - మరియు నిర్వహణ - బృంద వనరుల అభివృద్ధి - బృంద రూపకల్పన - పొల్గొనడం  
మరియు ఉత్పాదనము - బృంద నిర్మాణ చర్యలు.

## ప్రశ్నాపత్ర ప్రణాళిక

1. మొదటి యూనిట్ నుండి రెండు, రెండవ యూనిట్ నుండి రెండు, మూడవ యూనిట్ నుండి రెండు, నాల్గవ యూనిట్ నుండి ఒకటి, ఐదవ యూనిట్ నుండి ఒకటి చొప్పున సంక్షిప్త సమాధాన ప్రశ్నలిచ్చి ఏవైనా నాలుగు ప్రశ్నలకు సమాధానములు వ్రాయమనుట.

4x5=20 మా.

2. మొదటి యూనిట్ నుండి రెండు, రెండవ యూనిట్ నుండి రెండు, మూడవ యూనిట్ నుండి రెండు, నాల్గవ యూనిట్ నుండి ఒకటి, ఐదవ యూనిట్ నుండి ఒకటి చొప్పున వ్యాసరూప సమాధాన ప్రశ్నలిచ్చి ఏవైనా మూడు ప్రశ్నలకు సమాధానములు వ్రాయమనుట.

3x10=30 మా.

S.No	TYPE OF QUESTION	NO. OF QUESTIONS GIVEN	NO. OF QUESTIONS TO BE ANSWERED	MARKS ALLOTTED TO EACH QUESTION	TOTAL MARKS
1	సంక్షిప్త సమాధాన ప్రశ్నలు	8	5	4	20
2	వ్యాసరూప ప్రశ్నలు	6	3	10	30
				<b>TOTAL</b>	<b>50</b>

ప్రభుత్వ మహిళా కళాశాల (స్వయం ప్రతిపత్తి), గుంటూరు

నాయకత్వ విద్య

నాల్గవ సెమిస్టర్ - పాఠ్య ప్రణాళిక

సమయం : 2 గం.

మార్కులు : 50

I. ఈ క్రింది వానిలో ఏవైనా నాలుగు ప్రశ్నలకు సంక్షిప్త సమాధానాలు వ్రాయండి. 4x5=20 మా.

I. Write short notes for any FOUR from the given below

1. లైన్ మరియు స్టాఫ్ సంబంధాలు - Line and staff relationships
2. నిర్వహణ యొక్క ప్రాముఖ్యత - Significance of management
3. గ్రహణ శక్తి - Perception
4. వ్యక్తిత్వపు లక్షణాలు - Characteristics of personality
5. సమాచారము యొక్క లక్షణాలు - Characters of communication
6. వ్యావహారిక విశ్లేషణపు భావన - Concept of transactional analysis
7. నైతికత యొక్క నిర్వచనము, ప్రాముఖ్యత - Definition and significance of morale
8. బృంద నిర్మాణము వలన కలిగే ప్రయోజనాలు - Benefits of team building

II. ఈ క్రింది వానిలో ఏవైనా మూడు ప్రశ్నలకు వ్యాసరూప సమాధానాలు వ్రాయండి. 4x5=20 మా.

II. Write THREE essays from the given below.

9. నాయకత్వమును నిర్వచించి దాని ప్రాముఖ్యతను తెలపుము.
9. Define leadership and explain its significance.
10. నిర్వహణ యొక్క వివిధ రకాల విధులను వివరింపుము.
10. Describe various functions of managements.
11. వైఖరి, దాని ఏర్పాటు గురించి వ్రాయుము.
11. Write about attitude and formation of attitude.
12. సమాచార ప్రక్రియ లోని వివిధ దశలను గురించి వివరింపుము.
12. Describe the steps involved in the communication process.

13. సంఘర్షణ అనగానేమి ? సంఘర్షణలు యేల ఏర్పడతాయో వివరింపుము.

13. What is the conflict ? Explain why conflict arise ?

14. బృంద అభివృద్ధిలో గల వివిధ దశాలను గురించి వ్రాయుము.

14. Write about the stages of team development.

## B.A., B.Com., B.Sc. Programme Telugu (Second Language)

This Programme is of two years duration consisting of four semesters. The following table shows the structure of the programme which indicates title of the module, total hours available and components of internal and external evaluation for the Second year.

Semester	Title of the Module	Code of the Module	No. of hours per Week	Total hours per Semester	Weightage of Marks	
					External Assessment	Internal Assessment
III	Srujanaatmaka Rachana	TEL203	4	60	70	30
IV	Leadership Education		2	30	50	-

### Details of Credits

Semesters	Module	Workload per week	Credits Alloted
III	Srujanaatmaka Rachana	4	3
VI	Leadership Education	2	2
	<b>Total</b>		<b>06</b>

## **SCHEME OF EVALUATION**

The scheme of examination shall be divided into two parts.

### **1. External Assessment**

#### **Internal Assessments**

Internal assessment includes assignment, peer evaluation logical tests etc. The internal assessment of 30 for each course will be as follows. No Internal evaluation for Leadership Education.

<b>S.NO.</b>	<b>Evolution Type</b>	<b>Marks</b>
<b>1</b>	<b>Exam</b>	<b>50</b>

# **CORRICULAM FOR CERTIFICATE COURSE**

**Recommended by  
The Board of Studies in Telugu**

**For the approval of  
The Academic Council**

**Submitted by  
Department of Telugu**

**PANEL OF EXAMINERS & PEPAR SETTERS**  
**ACEDMIC SESSION 2021-22**

S.No	Name	Designation	Address
1	Dr. K. Balakrishna	Asso. Prof. In Telugu	SRR & CVR Govt. college, Vijayawada, Krishna Dist., A.P.
2.	Dr. G.B. Anand Kumar	Asso. Prof. In Telugu	Noble college (A), Machilipatnam, Krishna Dist., A.P.
3.	Smt. Mary Kumary	Asst. Prof. In Telugu	JMJ College for Women(A), Tenali Guntur Dist., A.P.
4.	Smt. D. Vijaya Lakshmi	Asst. Prof. In Telugu	JMJ College for Women(A), Tenali Guntur Dist., A.P.
5.	Smt. K.U. Padmavathi	Asst. Prof. In Telugu	VSR & NVR College for Women(A), Tenali Guntur Dist., A.P.
6.	Dr. Ch. Kurmaiah	Asst. Prof. In Telugu	Govt. Degree College (A), Rajahmundry, A.P.

## Item No. 8 – BOS - 1

### Structure of Modules

The BOS unanimously resolved to recommended to the academic council for the approval of structure of modules for all three years (Six Semesters) for B.A. Special Telugu curriculum.

The BOS Unanimously resolved to recommend to the academic council for the approval of structure of modules for two years (Four semesters) for Telugu (Second Language) curriculum, Indian Cultural and Science (Life Skill Course), Performing arts (Skill Development Course) and Leadership Education curriculum.

## Item No. 8 - BOS - 2

### Semester wise Syllabus

The BOS unanimously resolved to recommended to the academic council for the approval of I, II, III, IV, V and VI semesters syllabus for B.A. Special Telugu curriculum.

The BOS unanimously resolved to recommend to the academic council for the approval of I, II and III semesters syllabus for Telugu (Second Language) curriculum and IV Semester syllabus for Leadership Education curriculum. The BOS unanimously resolved to recommend to the academic council for the approval of II Semester syllabus for Indian Culture & Science (Life Skill Course), Performing arts (Skill Development Course) curriculum.

## Item No. 8 - BOS - 3

### Blue Print

The BOS unanimously resolved to recommended to the academic council for the approval of the Blue Print of Semesters I, II, III, IV, V and VI for B.A. Special Telugu and semesters I, II, III for Telugu (Second Language) and Semester IV for Leadership Education.

## Item No. 8 - BOS - 10

### Departmental Activities

The BOS unanimously resolved to recommended to the academic council for the approval of the departmental activities for the academic year 2021 – 22.

## Item No. 8 - BOS - 11

### List of Examiners and Paper Setters

The BOS unanimously resolved to recommend to the academic council for the approval of the list of examiners and paper setters of semester I, II, III, IV, V and VI for B.A. Special Telugu, semesters I, II, III for Telugu (Second Language) and semester VI for Leadership Education

The BOS unanimously resolved to recommend to the academic council for the approval of the list of examiners and paper setters of semester II Indian Culture & Science (Life skill course), Performing arts (Skill Development Course).

Item No. 8 - BOS - 12

Emergency Situations

The BOS unanimously resolved to empower Chairman of Board of Studies to make changes in the curriculum whenever there is necessary in emergency situations.

## **CERTIFICATE**

This is to certify that, resolutions in the BOS meeting held on 14-09-2021, in the department of Telegu on the following items mentioned here.

1. The structure of Modules for all three years (six semesters) for B.A. Special Telugu curriculum.
2. The structure of Modules for two years Telugu (Second Language) curriculum (Three semesters), and Leadership Education curriculum (Fourth semester).
3. The syllabus and model question papers including blue print in Telugu subject for three year B.A. course and Telugu (Second Language) for the semesters I, II and III and Leadership Education for semester IV for the academic year 2021-22
4. Internal & external evaluation system and credit system.
5. Syllabus Blue print and Model question paper, evaluation system and credit system for Indian Culture & Science (Life Skill Course) , Performing arts (Skill Development Course)
6. Syllabus, Blueprint and Model question paper, evaluation system and credit system for certificate course.
7. Project Work
8. Departmental Activities
9. List of examiners and paper setters

Also it is unanimously resolved to empower the in charge of the department for any small changes as and when necessary.

# **Govt. College for Women (A),Guntur**



**2020-2021**

**Activities integrating Cross-cutting issues**

**Gender/Environment Sustainability/Human**

**Values/ Professional Ethics**

**DEPARTMENT OF HOME SCIENCE**  
**2020-2021**  
**GENDER ISSUES**  
**National nutrition Week Celebration**

In India the national nutrition week is observed every year from September 1 to 7<sup>th</sup> to raise public awareness about nutrition and healthy eating habits. This week is observed to make people understand the importance of nutritional and adaptive eating habits so that they can maintain a healthy lifestyle.

During national nutrition week, the government takes up various initiatives to spread awareness about the right nutrition. A healthy mind resides in a healthy body and for that, we must take the adequate amount of nutrients such as proteins and vitamins in our daily diet. Every year this day will be celebrated with a theme and this year i.e. 2021 theme is ‘ FEEDING SMART RIGHT FROM START’.

**Procedure:**

The department of home science organized an extension activity on the occasion of national nutrition week at Tulasi Multi Speciality Hospital, kothapet, Guntur. In this event patients, clients and doctors are participated and the total participants were 50. In this occasion we planned to display a day's menu for pregnant mothers and for 6 months babies diet as per this year theme i.e. ‘Feeding smart right from start’ because they are base for upcoming generations. The students of home science explained clearly about importance of nutrition and their role in above two phases by showing planned menu, food pyramid and other Audio visual aid.

## Brief Report

Objectives	<ul style="list-style-type: none"> <li>● To create awareness on nutrition and their needs.</li> <li>● To educate pregnant women and lactating mothers on importance of weaning mixes.</li> </ul>
Name of the activity	<ul style="list-style-type: none"> <li>● Extension</li> <li>● Celebration of national nutrition week- 06/09/2021</li> </ul>
Participants	Clients, Doctors and other staff of TMH
Date	06/09/ 2021
Time	10am to 2pm
Venue	Tulasi multi specialty hospital
Resource person	Students of Home science III Bsc-10 IIBsc -05 Total involved-15
Events organized	Nutrition counseling by students (HSC)
Topics & List of participants	Annexure- I
Statement of Expenditure	Annexure-II
Photographs	Annexure-III
Outcomes Of The Program	<p>By the end of the activity the students are able to:</p> <ul style="list-style-type: none"> <li>● Know the importance of nutrition.</li> <li>● Develop positive attitude towards healthy life cycle.</li> <li>● Analyze their inter personal skills.</li> </ul>

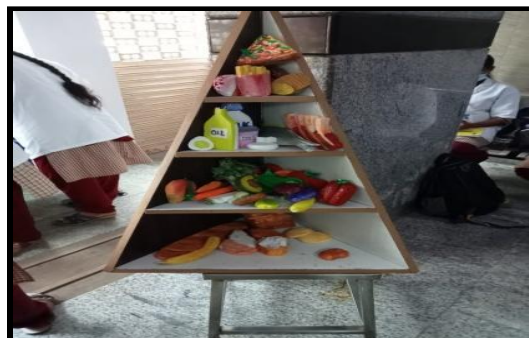
### Topics covered & List of participants

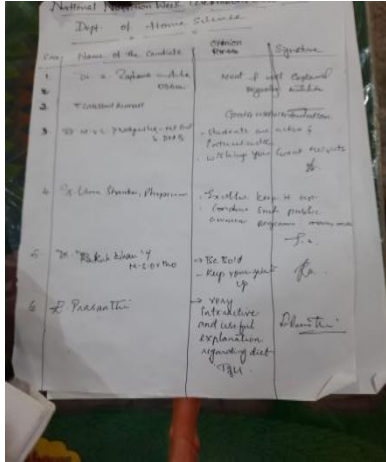
S.no	Name of the student	Class	Topic
1.	G.Priyanka	I B.Sc – H.Sc	Balanced diet
2	N.Harshini Priya	I B.Sc – H.Sc	Food pyramid
3.	Harika & Anusha	III B.Sc – H.Sc	Weaning mixes preparation
4	Sahithya & Ahalya	III B.Sc – H.Sc	Pregnant women diet
5	Sravani & Hadasa Blessy	I B.Sc & III B.Sc- H.Sc	Importance of nutrition during starting stages of life

### Statement of expenditure

S.no	Details of expenditure incurred item wise	Amount(Rs/-)
1	Preparation of Food Pyramid	500/-
2	Banner	150/-
3	A.V Aids	150/-
4	Food items preparation	500/-
5	Transportation	300/-
	Total -	Rs:1600/-

### Photographs





## DEPARTMENT OF POLITICAL SCIENCE

2020-2021

HUMAN VALUES (RIGHTS & DUTIES)

Celebration of Constitution Day

10-12-2021

## ACTIVITY INTEGRATING HUMAN VALUES

### Programme Sheet

1. Inviting the Guests : Smt. B. Curie
2. Prayer Song : Blessy
3. Opening remarks by : Dr.V.Rama Jyotshna Kumari, Principal, RJD (FAC), Guntur
4. Introduction about Programme : Mr.B.Lalita Babu, Dept.of Political Science
5. Introduction about Guests : Dr.V.Naveen Kumar, Dept. Of Sociology
6. Speech by Chief Guest : Prof.A.Subramanyam, Retd. Registrar, DSNLU, Visakhapatnam

7. Speech by Guest of Honour : Dr.B.Krishnaiah, Retd. Principal
8. Speech by Students : Zaveria, II BA
9. Prize Distribution :
10. Felicitation of Guests Invited : Dr.V. Naveen Kumar  
by
11. Vote of Thanks : Smt. B. Curie
12. No. of Students Present : 70

### Photos



**DEPARTMENT OF COMPUTER SCIENCE**  
**2020-2021**  
**ACTIVITY INTEGRATING HUMAN VALUES**

**Online quiz on "Yoga"**

**Date: 21-06-2020**

**Objective:**

- To test knowledge of students and Faculty on “Yoga” and its importance in human life.

**Date and time: 21-06-2020**

**Participants: 2<sup>nd</sup> year and 3<sup>rd</sup> year students**

**No. of students participated: 177**

**Activity Report:**

The art of practicing yoga helps in controlling an individual’s mind, body and soul. It brings together physical and mental disciplines to achieve a peaceful body and mind. The International Day of Yoga has been celebrated annually on 21 June since 2015.

On this occasion Department of Computer Science organized a State level Quiz on the topic “yoga” for all the Faculty and 2<sup>nd</sup>& 3<sup>rd</sup> year students on 21<sup>st</sup> June. This event is conducted in online mode. Total 177 Students and Faculty members participated in this Quiz. E-Certificates issued to the all the participants who secured 60% and above score received.

## Outcome:

Students and Faculty have tested their knowledge on Yoga and also they got awareness on some facts about Yoga and its Importance to lead a Healthy life.

## Sample Certificate:

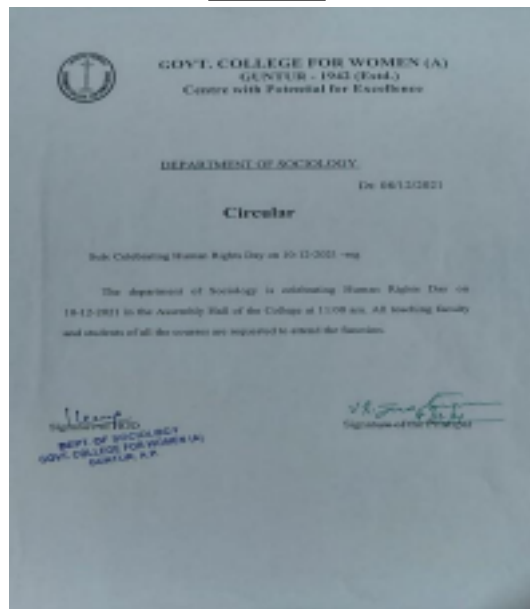


**DEPARTMENT OF SOCIOLOGY**  
**ACTIVITY INTEGRATING HUMAN VALUES**  
**2020-2021**

**Human Rights (10-12-2021)**

\*\*\*\*

**Circular**



**Introduction**

The United Nations General Assembly in 1948 adopted the Universal Declaration of Human Rights. This day is celebrated to raise awareness about people's social, cultural and physical rights and to ensure the welfare of everyone. The United Nations on this day encourages nations to create equal opportunities for everyone and address the issues of inequality, exclusion and discrimination. To impart knowledge about the importance of Human Rights, the Department of Political Science in collaboration with Department of Sociology has celebrated the Human Rights Day 1<sup>st</sup> December 2021 in this College. On this Occasion, the Department has organized Essay Writing and Poster Presentation competition and prizes were given away. This year Human Rights Day theme is "Equality, Reducing inequalities, advancing Human Rights."

**Objectives:**

1. To create awareness about the History of Human Rights.
2. To enlighten students on human rights which are the basic human rights.

**Date:** 10-12-2021

**Time:** 11 am to 1:30 pm in Assembly Hall

**No. of Faculty Attended:** 11

**No. of Students Attended:** 70

**Others Participation:** 5

**Activity Report/ Programme Description:**

The Dept of Sociology and Political Science, Govt.College for Women(A) has conducted “Human Rights” Day on 10-12-2021 at Assembly Hall Govt.College for Women (A) Guntur. Retired Prof A. Subramanyam, Professor of Law in Acharya Nagarjuna University and Dr. B. Krishnaiah, Retired Principal were the Chief Guests.

Prof Subramanyam speaking on the occasion stated that observing Human Rights must begin at home. Dr. Krishnaiah emphasized on the need to have knowledge on human rights especially Rights of Women. The Programme was presided over by the Principal of the College. Shri B. Lalita Babu, HoD Political Science gave a historical review on the evolution of Human Rights, Dr. V. Naveen Kumar, Lecturer in Sociology speaking on the occasion reminded the goals of sustainable development on gender equality. One of the students of II BA Ms. Zaveria spoke on the violation of human rights in India. Welcoming of Guests and Vote of Thanks was given by B. Curie, Lecturer in Political Science with concluding remarks including the status of India being one of the most unequal countries in the world as per a report by Oxfam. On this occasion competitions were conducted for students in essay writing and poster presentation. Prizes were given away to winners.

**Evidence:**



**Feed Back Form:**

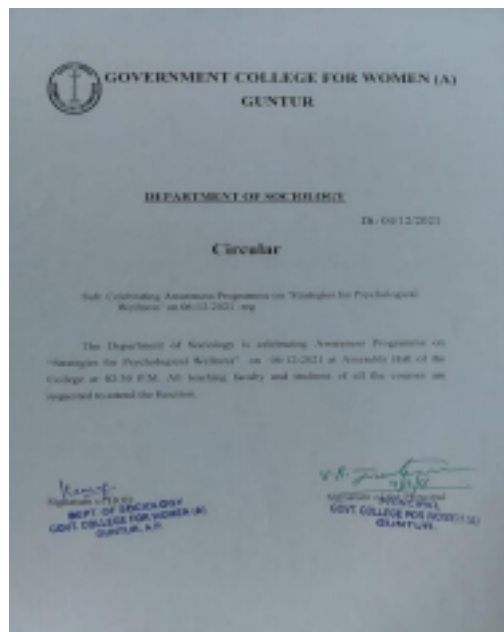
GOVT. COLLEGE FOR WOMEN (A) GUNTER				
2020 - 2021 Academic Year				
Human Rights Day (12-12-2020)				
Sl. No.	Name of the Student	Class & Group	Students Feedback (Yes/No/Not)	Signature of the Student
1	V. Saranya	B. E. D	✓	V. Saranya
2	M. Anjali	H.E.P	✓	M. Anjali
3	V. Anuradha	H.E.P	✓	V. Anuradha
4	V. Anuradha	H.E.P	✓	V. Anuradha
5	M. Anjali	H.E.P	✓	M. Anjali
6	V. Anuradha	H.E.P	✓	V. Anuradha
7	B. Anuradha	H.E.P	✓	B. Anuradha
8	H. Anuradha	H.E.P	✓	H. Anuradha
9	D. Anuradha	H.E.P	✓	D. Anuradha
10	Sybil Thomas	H.E.P	✓	Sybil Thomas
11	A. Anuradha	H.E.P	✓	A. Anuradha
12	A. Anuradha	H.E.P	✓	A. Anuradha
13	Sybil Thomas	H.E.P	✓	Sybil Thomas
14	B. Anuradha	H.E.P	✓	B. Anuradha
15	A. Anuradha	H.E.P	✓	A. Anuradha
16	G. Anuradha	H.E.P	✓	G. Anuradha
17	T. Anuradha	H.E.P	✓	T. Anuradha
18	G. Anuradha	H.E.P	✓	G. Anuradha
19	T. Anuradha	H.E.P	✓	T. Anuradha
20	G. Anuradha	H.E.P	✓	G. Anuradha
21	T. Anuradha	H.E.P	✓	T. Anuradha
22	G. Anuradha	H.E.P	✓	G. Anuradha
23	T. Anuradha	H.E.P	✓	T. Anuradha
24	G. Anuradha	H.E.P	✓	G. Anuradha
25	T. Anuradha	H.E.P	✓	T. Anuradha
26	G. Anuradha	H.E.P	✓	G. Anuradha
27	T. Anuradha	H.E.P	✓	T. Anuradha
28	G. Anuradha	H.E.P	✓	G. Anuradha
29	T. Anuradha	H.E.P	✓	T. Anuradha
30	G. Anuradha	H.E.P	✓	G. Anuradha
31	T. Anuradha	H.E.P	✓	T. Anuradha
32	G. Anuradha	H.E.P	✓	G. Anuradha
33	T. Anuradha	H.E.P	✓	T. Anuradha
34	G. Anuradha	H.E.P	✓	G. Anuradha
35	T. Anuradha	H.E.P	✓	T. Anuradha
36	G. Anuradha	H.E.P	✓	G. Anuradha
37	T. Anuradha	H.E.P	✓	T. Anuradha
38	G. Anuradha	H.E.P	✓	G. Anuradha
39	T. Anuradha	H.E.P	✓	T. Anuradha
40	G. Anuradha	H.E.P	✓	G. Anuradha
41	T. Anuradha	H.E.P	✓	T. Anuradha
42	G. Anuradha	H.E.P	✓	G. Anuradha
43	T. Anuradha	H.E.P	✓	T. Anuradha
44	G. Anuradha	H.E.P	✓	G. Anuradha
45	T. Anuradha	H.E.P	✓	T. Anuradha
46	G. Anuradha	H.E.P	✓	G. Anuradha

Sl. No.	Name of the Student	Class & Group	Students Feedback			Signature of the Student
			Teacher	Yes/No	Not	
24	A. Anuradha	H.E.P	✓			A. Anuradha
25	S. Anuradha	H.E.P	✓			S. Anuradha
26	M. Anuradha	H.E.P	✓			M. Anuradha
27	V. Anuradha	H.E.P	✓			V. Anuradha
28	P. Anuradha	H.E.P	✓			P. Anuradha
29	K. Anuradha	H.E.P	✓			K. Anuradha
30	T. Anuradha	H.E.P	✓			T. Anuradha
31	M. Anuradha	H.E.P	✓			M. Anuradha
32	J. Anuradha	H.E.P	✓			J. Anuradha
33	T. Anuradha	H.E.P	✓			T. Anuradha
34	K. Anuradha	H.E.P	✓			K. Anuradha
35	L. Anuradha	H.E.P	✓			L. Anuradha
36	A. Anuradha	H.E.P	✓			A. Anuradha
37	K. Anuradha	H.E.P	✓			K. Anuradha
38	B. Anuradha	H.E.P	✓			B. Anuradha
39	V. Anuradha	H.E.P	✓			V. Anuradha
40	G. Anuradha	H.E.P	✓			G. Anuradha
41	R. Anuradha	H.E.P	✓			R. Anuradha
42	M. Anuradha	H.E.P	✓			M. Anuradha
43	S.K. Anuradha	H.E.P	✓			S.K. Anuradha
44	V. Anuradha	H.E.P	✓			V. Anuradha
45	A. Anuradha	H.E.P	✓			A. Anuradha
46	P. Anuradha	H.E.P	✓			P. Anuradha

**DEPARTMENT OF SOCIOLOGY**  
**ACTIVITY INTEGRATING HUMAN VALUES**  
**2020-2021**

**“Strategies for Psychological Wellness” (06-12-2021)**

**Circular**



**Introduction**

Psychological well-being is attained by achieving a state of balance affected by both challenging and rewarding life events. Psychological well-being is about lives going well. It is

the combination of feeling good and functioning effectively. Individuals vary widely in their habitual level of psychological well-being, and there is evidence for a seminal role of social factors and the early environment in this process. The concept of functioning effectively (in a psychological sense) involves the development of one's potential, having some control over one's life, having a sense of purpose (e.g. working towards valued goals), and experiencing positive relationships.

### **Objectives**

1. The aim of psychological wellness importance of mental health
2. To develop the emotional strength in the individual by changing their thought process

**Date:** 06-12-2021

**Time:** 2.30 PM in Assembly Hall, GCW(A), Guntur

**Participants:** All B.A (PEP, SHT, HEP, CE, TTM), Vocational Intermediate Students, faculty and others

**No of Students:** 200

**No of Faculty:** 12

**Other Participants:** 8

### **About Report/ Programme Description:**

The Dept of Sociology and Psychology, Govt.College for Women has conducted Awareness Programme “Strategies for Psychological Wellness” on 06-12-2021 at Assembly Hall Govt.College for Women (A) Guntur. The following are the dignitaries: Dr.V.Rama Jyotshna Kumari (Chief Patron) Principal & RJD Guntur, Dr.E Samuel Reddy (Chief Guest), Chairman Spandana Eda International Foundation and Krishana Bharat (Guest of honour) Psychologist.

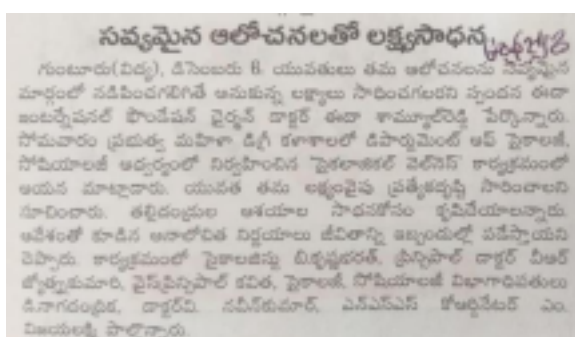
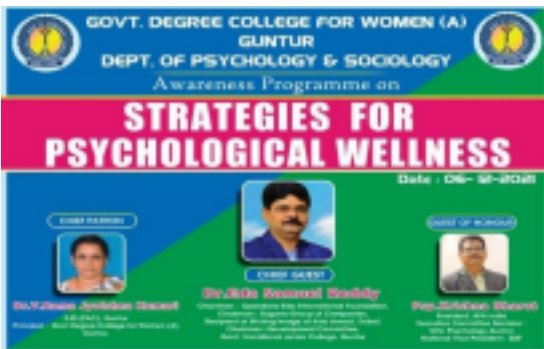
Smt.D.Chandrika Lecturer in Psychology welcomes the dignitaries has given brief introduction about the programme. Spandana Eda International Foundation Chairman, Dr.Eda Samuel Reddy has addressed the students that when the younger generation thinks and follows the right path they can achieve their aims and goals. Principal & RJD, Guntur Dr.V.Rama Jyotsna briefed about Psychological well-being is attained by achieving a state of balance affected by both challenging and rewarding life events. Psychologist Krishana Bharat said that: different concepts of residential and social environment have more impact on the life of student

and if we mould those circumstances in our favour we can achieve successful life. Dr.V.Naveen Kumar, Lecturer in Sociology briefed about key points of dignitaries. NSS co-ordinator M.Vijaya Lakshmi and other faculty members have actively participated in this programme and the programme was concluded by vote of thanks of smt.Chandrika.

**Out Comes**

1. Students have got the awareness regarding the importance of mental health. They have learnt some of the coping strategies to minimize exercise stress levels.
2. They understood that positive thinking process in very important to maintain good mental health.

**Evidence:**



**Feed Back Form:**

**GOVT. COLLEGE FOR WOMEN (A) GUNTUR**  
2020 - 2021 Academic Year  
Strategies for Psychological Wellbeing (20-12-2021)

Sl. No.	Name of the Student	Roll No.	Students Feedback			Signature of the Student
			Good	Very Good	Not	
1	A. Anuradha	M.E.P.	✓			A. Anuradha
2	A. Anuradha	M.E.P.	✓			A. Anuradha
3	A. Anuradha	M.E.P.	✓			A. Anuradha
4	A. Anuradha	M.E.P.	✓			A. Anuradha
5	A. Anuradha	M.E.P.	✓			A. Anuradha
6	A. Anuradha	M.E.P.	✓			A. Anuradha
7	A. Anuradha	M.E.P.	✓			A. Anuradha
8	A. Anuradha	M.E.P.	✓			A. Anuradha
9	A. Anuradha	M.E.P.	✓			A. Anuradha
10	A. Anuradha	M.E.P.	✓			A. Anuradha
11	A. Anuradha	M.E.P.	✓			A. Anuradha
12	A. Anuradha	M.E.P.	✓			A. Anuradha
13	A. Anuradha	M.E.P.	✓			A. Anuradha
14	A. Anuradha	M.E.P.	✓			A. Anuradha
15	A. Anuradha	M.E.P.	✓			A. Anuradha
16	A. Anuradha	M.E.P.	✓			A. Anuradha
17	A. Anuradha	M.E.P.	✓			A. Anuradha
18	A. Anuradha	M.E.P.	✓			A. Anuradha
19	A. Anuradha	M.E.P.	✓			A. Anuradha
20	A. Anuradha	M.E.P.	✓			A. Anuradha
21	A. Anuradha	M.E.P.	✓			A. Anuradha
22	A. Anuradha	M.E.P.	✓			A. Anuradha
23	A. Anuradha	M.E.P.	✓			A. Anuradha
24	A. Anuradha	M.E.P.	✓			A. Anuradha

Sl. No.	Name of the Student	Roll No.	Students Feedback (Good / Very Good / Not)	Signature of the Student
25	A. Anuradha	M.E.P.	✓	A. Anuradha
26	A. Anuradha	M.E.P.	✓	A. Anuradha
27	A. Anuradha	M.E.P.	✓	A. Anuradha
28	A. Anuradha	M.E.P.	✓	A. Anuradha
29	A. Anuradha	M.E.P.	✓	A. Anuradha
30	A. Anuradha	M.E.P.	✓	A. Anuradha
31	A. Anuradha	M.E.P.	✓	A. Anuradha
32	A. Anuradha	M.E.P.	✓	A. Anuradha
33	A. Anuradha	M.E.P.	✓	A. Anuradha
34	A. Anuradha	M.E.P.	✓	A. Anuradha
35	A. Anuradha	M.E.P.	✓	A. Anuradha
36	A. Anuradha	M.E.P.	✓	A. Anuradha
37	A. Anuradha	M.E.P.	✓	A. Anuradha
38	A. Anuradha	M.E.P.	✓	A. Anuradha
39	A. Anuradha	M.E.P.	✓	A. Anuradha
40	A. Anuradha	M.E.P.	✓	A. Anuradha
41	A. Anuradha	M.E.P.	✓	A. Anuradha
42	A. Anuradha	M.E.P.	✓	A. Anuradha
43	A. Anuradha	M.E.P.	✓	A. Anuradha
44	A. Anuradha	M.E.P.	✓	A. Anuradha
45	A. Anuradha	M.E.P.	✓	A. Anuradha
46	A. Anuradha	M.E.P.	✓	A. Anuradha
47	A. Anuradha	M.E.P.	✓	A. Anuradha
48	A. Anuradha	M.E.P.	✓	A. Anuradha
49	A. Anuradha	M.E.P.	✓	A. Anuradha
50	A. Anuradha	M.E.P.	✓	A. Anuradha
51	A. Anuradha	M.E.P.	✓	A. Anuradha
52	A. Anuradha	M.E.P.	✓	A. Anuradha
53	A. Anuradha	M.E.P.	✓	A. Anuradha
54	A. Anuradha	M.E.P.	✓	A. Anuradha
55	A. Anuradha	M.E.P.	✓	A. Anuradha
56	A. Anuradha	M.E.P.	✓	A. Anuradha
57	A. Anuradha	M.E.P.	✓	A. Anuradha
58	A. Anuradha	M.E.P.	✓	A. Anuradha
59	A. Anuradha	M.E.P.	✓	A. Anuradha
60	A. Anuradha	M.E.P.	✓	A. Anuradha
61	A. Anuradha	M.E.P.	✓	A. Anuradha
62	A. Anuradha	M.E.P.	✓	A. Anuradha
63	A. Anuradha	M.E.P.	✓	A. Anuradha
64	A. Anuradha	M.E.P.	✓	A. Anuradha
65	A. Anuradha	M.E.P.	✓	A. Anuradha
66	A. Anuradha	M.E.P.	✓	A. Anuradha
67	A. Anuradha	M.E.P.	✓	A. Anuradha
68	A. Anuradha	M.E.P.	✓	A. Anuradha
69	A. Anuradha	M.E.P.	✓	A. Anuradha
70	A. Anuradha	M.E.P.	✓	A. Anuradha
71	A. Anuradha	M.E.P.	✓	A. Anuradha

**DEPARTMENT OF SOCIOLOGY**  
**ACTIVITY INTEGRATING HUMAN VALUES**  
**2020-2021**  
**Awareness Programme on World Water Day (22-03-2021)**

**Circular**



**Introduction:** World celebrates Water Day to raises awareness among 2.2 billion people about the World Water Day, held on 22 March every year since 1993, focuses on the importance of freshwater. The theme of World Water Day 2021 is ‘*valuing water*’ (its true value and how we can better protect this vital resource). The value of water is about much more than its price – water has enormous and complex value for our households, food, culture, health, education, economics and the integrity of our natural environment.

**Objectives:**

1. Scarcity and proper utilization of water by the society
2. Wastage of water by society
3. Importance of water in day to day human life

**Resource Persons:**

1. D.Roshan Kumar, Director (SEEDS-NGO) Guntur
2. R.R.Suresh, Dept.of RWS (Rural Water Supply), Guntur

**No.of Students:** 90 (B.A-SHT, PEP, HEP)

**No. of Faculty:** 10

**Others participants:** 15

**Programme Description:** In the view of World Water Day 22/03/2021 Dept. of Sociology conducted the Awareness Programme collaboration in SEEDS (NGO) Association with FANSA–AP, Guntur on 22-03-202. Dr.V.Naveen Kumar Lecturer in Sociology and co-convenor of the programme has welcomes the dignitaries have given brief introduction about the programme. *Mr.D.Roshan Kumar*, Director (SEEDS-NGO) and Programme Convenor, Guntur has given their Valuable Massage on World Water Day about scarcity and proper utilization water. *Mr.RSR.Suresh*, RWS, briefed about utilization and wastage of water by the society. *Dr.Rama Jyotsna*, Principal and *Dr.V.Naveen Kumar* explained about the importance of water in day to day life of human. Smt. Nalini, RACE- NGO member has guided the students about water reserves and taken oath with all participants. Around 10 Faculty members from various departments, 90 students from all BA groups and members from different NGOs (SEEDS, RACE, DON, LAMP etc...) actively participated in this programme and the programme was concluded by vote of thanks of Dr.V.Naveen Kumar.

**Out Comes:**

1. The importance of water and its proper utilization
2. Students determine not to waste water in future

**Evidence:**



**మహిళా కళాశాలలో జల దినోత్సవం**

విశాఖాంధ్ర-గుంటూరు :  
 ప్రపంచ జల దినోత్సవాన్ని  
 పురస్కరించుతుంది స్థానిక  
 గుంటూరు మహిళా  
 కళాశాలలో ప్రెస్ వాలర్  
 యాజ్జన్ సెలెస్ట్ సాక్  
 ఏసీయా(ఫైనా)



సమావేశంలో కళాశాల సోషియాలజీ విభాగం సోషియాలజీ ఫాక్సా ఏసీ  
 సభ్యులైన సీడ్స్, రేస్, లామ్, డాక్ స్పర్సెండ్ సేదా సంస్థల అధ్యక్షులలో  
 సోషియాలజీ విద్యార్థులకు వైకాపా సదస్సు నిర్వహించారు. ఈ కార్యక్రమంలోకి  
 ముఖ్య అతిథిగా ఆర్డెస్ట్రువెన్ డిపార్ట్మెంట్ సుంది ఆర్ఎస్ఆర్ సురేష్  
 హోమరుజాగా మహిళా కళాశాల ప్రెస్విపోల్ తోక్కుతుమారి, ప్రోగ్రాం కమిషనర్  
 డి.లోషనకుమార్, రమేష్, వి.సవినీకుమార్, కంప్రక, మేరి, లోషనకుమార్  
 కవిప్రదీప్, గేరా సవినీ, రత్నకుమారి తదితరులు పాల్గొన్నారు.

**Feed Back Form:**

GOVE. COLLEGE FOR WOMEN (A) CENTER  
1939 - 2021 Academic Year  
WORLD WATER DAY (21-12-2021)

Sl. No	Name of the Student	Class & Group	Feedback			Signature of the Student
			Excellent	Very Good	Good	
1	A. Anoushka	S.H.T	✓			A. Anoushka
2	A. Anoushka	S.H.T		✓		A. Anoushka
3	A. Anoushka	S.H.T	✓			A. Anoushka
4	A. Anoushka	S.H.T		✓		A. Anoushka
5	A. Anoushka	S.H.T		✓		A. Anoushka
6	A. Anoushka	S.H.T	✓			A. Anoushka
7	A. Anoushka	S.H.T		✓		A. Anoushka
8	A. Anoushka	S.H.T		✓		A. Anoushka
9	A. Anoushka	S.H.T		✓		A. Anoushka
10	A. Anoushka	S.H.T		✓		A. Anoushka
11	A. Anoushka	S.H.T		✓		A. Anoushka
12	A. Anoushka	S.H.T		✓		A. Anoushka
13	A. Anoushka	S.H.T		✓		A. Anoushka
14	A. Anoushka	S.H.T	✓			A. Anoushka
15	A. Anoushka	S.H.T		✓		A. Anoushka
16	A. Anoushka	S.H.T		✓		A. Anoushka
17	A. Anoushka	S.H.T		✓		A. Anoushka
18	A. Anoushka	S.H.T		✓		A. Anoushka
19	A. Anoushka	S.H.T		✓		A. Anoushka
20	A. Anoushka	S.H.T		✓		A. Anoushka
21	A. Anoushka	S.H.T		✓		A. Anoushka
22	A. Anoushka	S.H.T		✓		A. Anoushka

23	A. Anoushka	S.H.T		✓		A. Anoushka
24	A. Anoushka	S.H.T		✓		A. Anoushka
25	A. Anoushka	S.H.T	✓			A. Anoushka
26	A. Anoushka	S.H.T		✓		A. Anoushka
27	A. Anoushka	S.H.T		✓		A. Anoushka
28	A. Anoushka	S.H.T		✓		A. Anoushka
29	A. Anoushka	S.H.T		✓		A. Anoushka
30	A. Anoushka	S.H.T		✓		A. Anoushka
31	A. Anoushka	S.H.T		✓		A. Anoushka
32	A. Anoushka	S.H.T		✓		A. Anoushka
33	A. Anoushka	S.H.T		✓		A. Anoushka
34	A. Anoushka	S.H.T		✓		A. Anoushka
35	A. Anoushka	S.H.T		✓		A. Anoushka
36	A. Anoushka	S.H.T		✓		A. Anoushka
37	A. Anoushka	S.H.T		✓		A. Anoushka
38	A. Anoushka	S.H.T		✓		A. Anoushka
39	A. Anoushka	S.H.T		✓		A. Anoushka
40	A. Anoushka	S.H.T		✓		A. Anoushka
41	A. Anoushka	S.H.T		✓		A. Anoushka
42	A. Anoushka	S.H.T		✓		A. Anoushka
43	A. Anoushka	S.H.T		✓		A. Anoushka
44	A. Anoushka	S.H.T		✓		A. Anoushka
45	A. Anoushka	S.H.T		✓		A. Anoushka
46	A. Anoushka	S.H.T		✓		A. Anoushka
47	A. Anoushka	S.H.T		✓		A. Anoushka
48	A. Anoushka	S.H.T		✓		A. Anoushka
49	A. Anoushka	S.H.T		✓		A. Anoushka
50	A. Anoushka	S.H.T	✓			A. Anoushka

## DEPARTMENT OF BIOTECHNOLOGY

2020-21

### ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY

<b>Objective:</b>	Exhibition and and plantation
<b>Date :</b>	21-12-2020
<b>Time :</b>	
<b>Participants:</b>	
No.of students	100
No.of faculty	20
Other participants	
<b>Description in brief:</b>	Exhibition and plantation programme conducted on 21-12-2020

<b>Outcome:</b>	Students learned biogas, DNA and importance of plantation
<b>Evidence:</b>	<a href="https://drive.google.com/file/d/1_vc1JAKB1e-nk1RQfsP7gira4kGKklKC/view?usp=sharing">https://drive.google.com/file/d/1_vc1JAKB1e-nk1RQfsP7gira4kGKklKC/view?usp=sharing</a>



## DEPARTMENT OF BIOTECHNOLOGY

2020-21

### ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY

<b>Objective:</b>	achievement
<b>Date :</b>	08-01-2021
<b>Time :</b>	
<b>Participants:</b>	
No.of students	1
No.of faculty	
Other participants	
<b>Description in brief:</b>	Student achieved Gold medel
<b>Outcome:</b>	Students got encouragement
<b>Evidence:</b>	

<b>Objective:</b>	Guest lecture
<b>Date :</b>	23-01-2021
<b>Time :</b>	
<b>Participants:</b>	
No.of students	100
No.of faculty	5
Other participants	
<b>Description in brief:</b>	Guest lecture bt gene expression of bt gene and bt protein
<b>Outcome:</b>	Students learned about applications biotechnology in agriculture
<b>Evidence:</b>	<a href="https://drive.google.com/file/d/1lgmyGpRa0X-EGQ1FK1dMQL_zQNfIXWv4/view?usp=sharing">https://drive.google.com/file/d/1lgmyGpRa0X-EGQ1FK1dMQL_zQNfIXWv4/view?usp=sharing</a>



<b>Objective:</b>	Induction program
<b>Date :</b>	27-02-2021
<b>Time :</b>	
<b>Participants:</b>	
No.of students	100
No.of faculty	20
Other participants	
<b>Description in brief:</b>	Deeksharambh for 1 <sup>st</sup> year students
<b>Outcome:</b>	Students learned about behavior, discipline, and punctuality
<b>Evidence:</b>	<a href="https://drive.google.com/file/d/1Oh3X9knuUnmcBFN0QfCZab6OhjJt3cCh/view?usp=sharing">https://drive.google.com/file/d/1Oh3X9knuUnmcBFN0QfCZab6OhjJt3cCh/view?usp=sharing</a>




## DEPARTMENT OF ECONOMICS

2020-21

### ACTIVITY INTEGRATING HUMAN VALUES

<b>Objective:</b>	To aware to the quality of Education Developing Country like India
<b>Date :</b>	11-11-2020
<b>Time :</b>	11am to 1pm
<b>Participants:</b>	Students and faculty of Economics department
No.of students	34
No.of faculty	2
Other participants	1
<b>Description in brief:</b>	Dept of Economics Faculty members are conducted Elocution Competition on the Occasion of National Education Day on 11-11-2021 in Room number 26. 47 No. of Final B.A students participated in this programme. Students came to know that National Education Day to commemorate Birth anniversary of Moulana Abul kalam Azad . students came to know that the central government with a resolution on September 11 <sup>th</sup> 2008 declared November 11 <sup>th</sup> as National Education Day. Moulana Abul Kalam Azad was independent Indians first educational Minister and pioneer of the education system in the country. He was awarded Bharat Ratna posthumously


	India's highest civil honour in 1992, He established the University Grand Commission on 28 <sup>th</sup> December 1953 and he had established the Indian Institute of Technology
<b>Outcome:</b>	. Nearly 47 students are participating in this session. This programme very useful to our students to improve their knowledge. The programme was appreciated by the students and staff.
<b>Evidence:</b>	

## DEPARTMENT OF ECONOMICS

2020-21

### ACTIVITY INTEGRATING HUMAN VALUES


<b>Objective:</b>	To bring together people from different walk of life on one single platform
<b>Date :</b>	19-11-2020
<b>Time :</b>	11am
<b>Participants:</b>	Students and faculty of Economics department

No.of students	47
No.of faculty	2
Other participants	0
<b>Description in brief:</b>	Dept of Economics Faculty members are conducted Seminar on the Occasion of National Integration Day on 19-11-2021 in Room number 26. 53 No. of Final B.A students participated in this programme. the National integration day is important to express unity in diversity in a country like India, National Integration Day is celebrated on the November 19 <sup>th</sup> of every year. This day commemorates the birth anniversary of the first ever women Prime minister of India, Mrs Indira Gandhi, National Integration Day is observed across schools, colleges and universities with nationalistic and patriotic pride. .
<b>Outcome:</b>	. Nearly 53 students are participating in this session. This programme very useful to our students to improve their knowledge. The programme was appreciated by the students and staff
<b>Evidence:</b>	

## DEPARTMENT OF ECONOMICS

2020-21


### ACTIVITY INTEGRATING HUMAN VALUES

<b>Objective:</b>	To bring together people from different walk of life on one single platform
<b>Date :</b>	<b>10-12-2020</b>
<b>Time :</b>	11am
<b>Participants:</b>	Students and faculty of Economics department and Political Science
No.of students	52
No.of faculty	0 2
Other participants	03
<b>Description in brief:</b>	All humanity departments are conducted Human Right Day on 10-12-2021 room no 27, 52 no of students are participated in this programme, some faculty gave voluble message for student how to utilize our nation given Human Rights
<b>Outcome:</b>	. Nearly 52 students are participating in this session. This programme very useful to our students to improve their knowledge. The programme was appreciated by the students and staff
<b>Evidence:</b>	

# DEPARTMENT OF ECONOMICS

2020-21

## ACTIVITY INTEGRATING HUMAN VALUES

<b>Objective:</b>	To gain Additional Knowledge
<b>Date :</b>	25-03-2021
<b>Time :</b>	11am
<b>Participants:</b>	Students and faculty of Economics department and resources Person
No.of students	47
No.of faculty	3
Other participants	1
<b>Description in brief:</b>	Department of Economics conducted Guest Lecture on 25-03-2021 by V. Koteswara Rao , Lecture in Economics, Chebrolu, Guntur District. 47 students are participated in this programme. He delivered voluble lecture Elasticity of Demand for
<b>Outcome:</b>	. Nearly 53 students are participating in this session. This programme very useful to our students to improve their knowledge. The programme was appreciated by the students and staff
<b>Evidence:</b>	

## DEPARTMENT OF ECONOMICS

2020-21

### ACTIVITY INTEGRATING GENDER ISSUES

<b>Objective:</b>	To awareness of Gender Equal World
<b>Date :</b>	08-03-2021
<b>Time :</b>	11am
<b>Participants:</b>	Students, faculty of Economics department and All Department Faculty
No.of students	25
No.of faculty	03
Other participants	1
<b>Description in brief:</b>	Department of Economics conducted National Women's. Day on 08-03-2021. The student of III B.A all groups are participated in Poster Presentation programme. Topic : Financial Empowerment of Women in all over the world who are success their field
<b>Outcome:</b>	. Nearly 25 students are participating in this session. This programme very useful to our students to improve their knowledge. The programme was appreciated by the students and staff
<b>Evidence:</b>	




## DEPARTMENT OF FOOD TECHNOLOGY

2020-21

### ACTIVITY INTEGRATING GENDER ISSUES National Nutrition Week Celebrations

<b>Objective:</b>	<ul style="list-style-type: none"> <li>• To raise public awareness about nutrition &amp; healthy eating habits.</li> <li>• To make people understand the importance of nutritional fortified foods.</li> <li>• To spread awareness about good nutrition and health.</li> </ul>
<b>Date:</b>	
<b>Time:</b>	11 Am
<b>Participants:</b>	Students and faculty of Biochemistry, Food Technology & Home Science departments and Mrs. Dorka Vijaya Kumari, Ms. V. Kavya & Ms. Swetha
<b>No. of Students:</b>	25

<b>No. of Faculty:</b>	
<b>Other Participants:</b>	30
<b>Description in brief:</b>	<ul style="list-style-type: none"> <li>•National Nutrition Week celebrations was organised by the Dept. of Biochemistry, Dept. of Food technology along with Dept. of Home Science.</li> <li>•The students and faculty member visit the Tulasi Multi speciality Hospital, at Guntur on 6<sup>th</sup> September,2021.</li> <li>•The peer team members exhibit the posters presentation and conducted the experiments on food adulteration and prepare &amp; exhibit healthy meal plan for pregnant women to create enthusiasm among the doctors, visitors &amp; patients.</li> </ul>
<b>Outcome:</b>	<ul style="list-style-type: none"> <li>•Students were very much excited to participate in this event and got inspired to apply the knowledge acquired in their daily life.</li> </ul>
<b>Evidence:</b>	





## DEPARTMENT OF FOOD TECHNOLOGY 2020-21

### ACTIVITY INTEGRATING GENDER ISSUES

<b>Objective:</b>	<ul style="list-style-type: none"> <li>•To raise public awareness about hunger, malnutrition, sustainability &amp; food production.</li> <li>•To tackling global hunger and striving hunger across the world.</li> </ul>
<b>Date:</b>	16-10-2021
<b>Time:</b>	11 Am
<b>Participants:</b>	Students and faculty of Biochemistry, Food Technology departments and Mrs. Dorka Vijaya Kumari, Ms. V. Kavya
<b>No. of Students:</b>	23

<b>No. of Faculty:</b>	2
<b>Other Participants:</b>	23
<b>Description in brief:</b>	<ul style="list-style-type: none"> <li>•World Food Day celebrations was organised by the Dept.of Biochemistry &amp; Dept. of Food Technology ON 16<sup>th</sup> October,2021.</li> <li>• Students had witnessed several onlive video presentations and posters presentations related to different types of food products.</li> <li>•The students will gain the knowledge about the food products, Zero hunger and food evolution.</li> </ul>
<b>Outcome:</b>	<ul style="list-style-type: none"> <li>• It helps the other students to understand well in the concerned topic and known the importance of food.</li> </ul>



**DEPARTMENT OF HISTORY & TOURISM**  
**2020-21**

**ACTIVITY INTEGRATING HUMAN RIGHTS DAY**

**National voter's day celebration**

<b>Objective:</b>	Students rally on National Voters Day in order to encourage more young voters to take part in the political process, Government of India has decided to celebrate January 25 every year as NATIONAL VOTERS DAY. It has been started from 26 January 2011 to mark Commissions foundation day
<b>Date :</b>	25 th January 2021
<b>Time :</b>	11.00 to 12.00 am
<b>Participants:</b>	Students and faculty of <b>Dept. of History &amp; Tourism</b>
No.of students	70 with other group students and faculty
No.of faculty	3
Other participants	70 with other group students and faculty
<b>Description in brief:</b>	The Department of History, Tourism and Travel Management of our College is going to conduct NATIONAL VOTERS DAY rally with B.A Students on 25 th January 2021 . So I request all B.A students to attend National VOTERS Day rally.
<b>Outcome:</b>	; Students rally on National Voters Day in order to encourage more young voters to take part in the political process.

**Evidence:**



## DEPARTMENT OF HISTORY & TOURISM 2020-21

### ACTIVITY INTEGRATING HUMAN RIGHTS DAY

National Tourism day celebration

<b>Objective:</b>	To create awareness among students importance of National Tourism day
<b>Date :</b>	January 25, 2020.
<b>Time :</b>	10.00 to 12.00 am
<b>Participants:</b>	Students and faculty of DEPARTMENT OF HISTORY & TOURISM
No.of students	20
No.of faculty	2
Other participants	0
<b>Description in brief:</b>	To create awareness among students importance of National Tourism day and explain various tourist destination in India

<b>Outcome:</b>	Students are participated with very much interest and they explain various tourist destinations in India
<b>Evidence:</b>	

**DEPARTMENT OF HISTORY & TOURISM  
2020-21**

**ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY**

**FIELD TRIP**

<b>Objective:</b>	we went to Uppalapadu to see the birds that had migrated from other countries.
<b>Date :</b>	10-09-2020
<b>Time :</b>	
<b>Participants:</b>	Students and faculty of History and Tourism department
No.of students	40
No.of faculty	2
Other participants	0

<b>Description in brief:</b>	birds migrated to have shelter and the birds we observed there in some seasons only
<b>Outcome:</b>	We learnt about the importance of eco-tourism from our visit to the Uppalapadu birds sanctuary.
<b>Evidence:</b>	

**DEPARTMENT OF MICROBIOLOGY**  
**2020-21**

**ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY**

**Name of the Activity: Field trip**

<b>Objective:</b>	To acquaint the students with the methodology of mass production of biofertilisers.
<b>Date :</b>	18-09-21
<b>Time :</b>	10:00Am to 3:00 PM
<b>Participants:</b>	Students and faculty of Microbiology department
No.of students	43
No.of faculty	01
Other participants	
<b>Description in brief:</b>	Department of microbiology arranged a field trip to Acharya NG Ranga Agricultural Research Station, Amaravathi, Guntur district on 18-09-21 as a part of curriculum to II and III B.Sc Microbiology students. They have explained the technology involved in the production of biofertilisers. Student got direct experience of the functioning different equipment used in the production of bio fertilizers. Students have visited the quality control and quality assurance departments and learnt the parameters followed in the production.
<b>Outcome:</b>	Students observed and learned the stages of biofertilisers production, quality control laboratory etc and actively interacted with the staff of the reserch station.
<b>Evidence:</b>	

**DEPARTMENT OF MICROBIOLOGY  
2020-21**

**ACTIVITY INTEGRATING GENDER ISSUES**

**Name of the Activity: Awareness Programme on Cancer in Women**

**Objective:** To create awareness about the types of cancers which are prevailing among women with special reference to breast cancer.

**Date :** 08-10-2021

**Time:** 3:00 to 4:00PM

**Participants:** Students and faculty of Department of Microbiology along with C I Srinivasa rao (Kothapet), Guntur and women police.

**No.of students:** 200

**No.of faculty :** 04

**Other participants:**

**Description:** An awareness programme on cancer in women was arranged in association with Grace Foundation and AP police to spread awareness on breast cancer prevention, detection and screening globally .The main motto of this awareness programme is to break the chains of cancer globally by motivating the students of all ages and encouraging them to participate in run for cancer prevention organized by AP Police with other NGO, Grace foundation,

**Outcome:** Students actively participated in the programme and they expressed their doubts regarding the stages of breast cancer, Symptoms of uterus cancer, cervical cancer etc and they all pledged that they will play their role to curb the cancer in the society and to make our nation pride. Around 70 students participated in the Global Grace Cancer Run 2021 which was held on 10-10-2021.

**Evidence:**





**DEPARTMENT OF MICROBIOLOGY**  
**2020-21**

**ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY**

**Name of the Activity: Expo on Fermented Foods and Probiotics**

<b>Objective:</b>	To create awareness among the students and staff about the role and importance of fermented foods in maintaining good health.
<b>Date :</b>	2.11.21
<b>Time :</b>	11:00 AM to 4:00 PM
<b>Participants:</b>	students
No.of students	75
No.of faculty	3
Other participants	
<b>Description in brief:</b>	The department of Microbiology arranged “Expo on Fermented Foods and Probiotics” on 2-11-21. Students of II and III years micropeers club, A microbiology study club have arranged 30 food stalls in which they have displayed different fermented foods prepared by them. Not only traditional foods, continental fermented dishes like kimchi, Kombucha etc were prepared by the students were displayed. They have explained the visitors about the bad effects of consuming junk foods. Students also explained the importance of probiotics and the organisms used in the preparation of probiotics, mechanism of action of probiotics etc. The student explained about the programme in local media channels also.
<b>Outcome:</b>	Almost 250 students and staff visited the exhibition. Students who participated in the expo enthusiastically explained the visitors about the importance of fermented foods in maintaining gut health and immune system. Visitors they have appreciated the efforts of our students.

Evidence:





**DEPARTMENT OF MICROBIOLOGY**  
**2020-21**

**ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY**

**Name of the Activity: Observation of Global Antibiotic awareness week**

<b>Objective:</b>	To create awareness among the students and staff about antibiotic resistance.
<b>Date :</b>	18-11-21 to 24-11-21
<b>Time :</b>	Every day from 4 50 5 pm
<b>Participants:</b>	Students
No.of students	120
No.of faculty	3
Other participants	
<b>Description in brief:</b>	In view of “Global Antibiotic awareness week” students of microbiology department has displayed the charts, power point presentations and explained the students about the causes of antibiotic resistance , consequences of over usage of antibiotics ,prevention of antibiotic resistance etc.
<b>Outcome:</b>	Almost 120 students have learned the concept of antibiotic resistance with enthusiasm, they have interacted with the staff and students of microbiology and clarified their doubts.
<b>Evidence:</b>	





## DEPARTMENT OF PSYCHOLOGY 2020-21

### ACTIVITY INTEGRATING HUMAN VALUES

#### **“Awareness programme on World Suicide Prevention Day” (10-09-2020)**

##### **Objectives**

1. To aware the individuals towards symptoms of suicidal thoughts
2. To develop the emotional strength in the individuals by changing their thought process.
3. To aware the students towards Psycho social support strategies

**Date:** 10-09-2020

**Time:** Webinar at 5.00 PM through Zoom platform

**Participants:** All B.A (PEP, SHT, HEP,) Students, faculty and others

**No of Students:** 40

**No of Faculty:** 6

**Other Participants:** 4

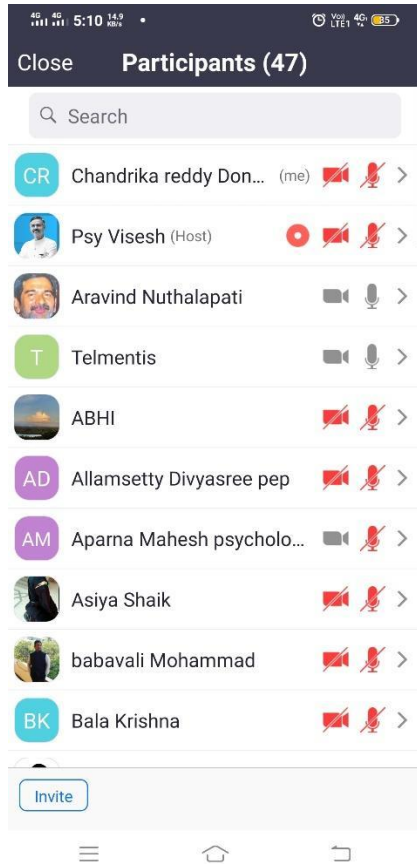
**Out Comes**

1. Students have got the awareness regarding symptoms of suicidal thoughts. They have learnt some of the coping strategies to minimize excessive stress levels.
2. They understood about Psycho social support strategies

3. **Description:**

Department of Psychology in collaboration with All India Psychological association organised world suicide prevention day on 10. 9. 20. Panel of 6 members shared their views. Dr. Ruhi Satija and Dr.Tony Jose explained about the symptoms of suicidal thoughts. Dr. Chandan Kumar and A.V.Raja sekhar explained about the preventive measures and Dr.T.D. Vimala and Dr.Krishna explained about supportive strategies. More than 50 members participated in this webinar.

**Evidence:**



## DEPARTMENT OF PSYCHOLOGY 2020-21

### ACTIVITY INTEGRATING HUMAN VALUES

#### “Webinars on stress management on occasion of International Stress awareness Day” (03-11-2021,05-11-21 & 06-11-21)

#### Objectives

1. To aware the individuals towards impact of stress on body and about coping strategies
2. To aware the individuals towards positive side of the stress
3. To gain the knowledge towards Cognitive Behavioural Therapy

**Date:** 03-11-2021, 05-11-21 & 06-11-21

**Time:** Webinars at 5.00 PM through Zoom platform

**Participants:** All B.A Students, faculty and others

**No of Students:** 15

**No of Faculty:** 4

**Other Participants:** 40

**Out Comes**

1. Individuals have got the awareness regarding the impact of stress on body. They have learnt some coping strategies to minimize excessive stress levels.
4. They understood the positive side of the stress
5. They gained knowledge towards Cognitive Behavioural Therapy

**2. Description:**

Department of Psychology in collaboration with the All India Psychological Association organised webinars on Stress management on the occasion of “International Stress awareness Day” (03-11-2021,05-11-21 & 06-11-21). Mrs.Usha Rani, Psychologist explained the Positive sides of stress. Eustress helps to do things earlier. It gives the enthusiasm to do works earlier. B.Krishna Bharath explained about the symptoms of stress. Dr.G.Krishna explained about Cognitive Behavioural Therapy for stress management and B.Mallikarjuna Rao explained some of the Yoga techniques and stress free techniques . More than 50 members participated in this webinar.

**Evidence:**

**ALL INDIA PSYCHOLOGICAL ASSOCIATION (APA INDIA)**

**DEPT. OF PSYCHOLOGY GOVT. COLLEGE FOR WOMEN (A) GUNTUR**

On occasion International Stress Awareness Day

**Webinars on Stress Management**

5:00 pm - 7:00 pm Zoom (Online)

**Day 1 : 3<sup>rd</sup> November 2021**

Mrs. Usharani Psychologist, Hyderabad  
Topic: Positive side of the stress

B. Krishnabharath Psychologist, Guntur  
Topic: Stress Prevention

**Day 2 : 4<sup>th</sup> November 2021**

Dr. K. Niranjan Reddy Renowned Clinical Psychologist, Hyderabad  
Topic: Cognitive Behaviour Therapy for Stress Management

**Day 3 : 5<sup>th</sup> November 2021**

Mr. Bysu Mallikarjuna Rao Surya Yoga Foundation, Guntur  
Topic: Yoga for Stress Management

No Entry Fee

Close Participants (37)

N	N.Arshitha (software engin...	Video Off	Audio Off	>
P	P.mehamoodha	Video Off	Audio Off	>
PD	Paruchuri deepak	Video Off	Audio Off	>
P	Premchand	Video Off	Audio Off	>
P	Prof.Balaji	Video Off	Audio Off	>
R	RAJA(SOLDIER)	Video Off	Audio Off	>
SJ	Sk Javeriyaanjum 10 th cla...	Video Off	Audio Off	>
S	Skaamina. Psychologist	Video Off	Audio Off	>
SG	Sri ganesh IAS	Video Off	Audio Off	>
	Vamsi Naidu *V.*V.*K	Video Off	Audio Off	>
AC	ARMY Captain Mansoor	Video Off	Audio Off	>

Invite

## DEPARTMENT OF PSYCHOLOGY 2020-21

### ACTIVITY INTEGRATING GENDER ISSUES

#### “IMPACT OF 3 C’S ON LIVES OF GIRL CHILD” (22-01-2021)

##### Objectives

1. To gain the knowledge towards 3 C’s
2. To aware the Girl child towards Impact of 3 C’s and importance of Self-talk

**Date:** 22-01-2021

**Time:** 11 a.m -12 a.m

**Participants:** All B.A (PEP &SHT) Students and faculty

**No of Students:** 40

**No of Faculty:** 4

### **Out Comes**

1. Students gained the knowledge about 3 C's and its impact in communication
2. They understood that these 3 C's are very important while we are in verbal communication.
3. **Description:**

Department of Psychology conducted a guest lecture “Impact of 3 c’s on lives of girl child” to BA students on 22-01-2021 at 11 a.m.The following are the dignitaries: Dr.V.Rama Jyotshna Kumari (Chief Patron) Principal, Srinivasa Reddy Dodda, Psychologist and Dr.S.L.B.Sarma, Incharge,Dept.of Psychology.

Smt.D.Chandrika Lecturer in Psychology welcomes the dignitaries and has given brief introduction about the programme. Our college principal explained about the importance of proper communication. The Chief Guest Sri. D. Srinivasa Reddy explained that “Self –talk” plays a major role in the succession of life. It makes us to know about our weaknesses and our strengths and the things which we have to omit. He also explained that verbal communication is also very important in communication and we have to apply 3 C’s (Clear, Concise and consistent) while we are in communication with others. The programme was concluded by vote of thanks of Smt. Chandrika. NSS co-ordinator M.Vijaya Lakshmi , M.Padmaja political science and other faculty members have actively participated in this programme.



**DEPARTMENT OF PSYCHOLOGY  
2020-21**

**ACTIVITY INTEGRATING HUMAN VALUES**

**Dept of Psychology in collaboration with All India Psychological Association**

**“State Level Conference on Mental Health” (03-10-2021)**

**Objectives**

- 1.To improve the knowledge in the individuals towards Current trends in Counselling and Therapy
- 2.To develop mental health in the pandemic situations
- 3.To aware the individuals towards Psychological first aid

**Date:** 03-10-2021

**Time:** 10.00 AM – 5.00 P.M in Seminar Hall, GCW(A), Guntur

**Participants:** All Psychologists and Psychology Students

**No of Students:** 20

**No of Faculty:** 10

**Other Participants:** 64

**Out Comes**

4. Individuals have got the awareness regarding the importance of mental health in Pandemic situations.
5. They got awareness regarding current trends in Counselling and therapy
- 6.They got knowledge about Psychological first aid

**Description:**

The Dept. of Psychology, Govt. College for Women (A) in collaboration with All India Psychological Association has conducted **“State Level Conference on Mental Health”**

on 03-10-2021 at Seminar hall, Govt. College for women (A) Guntur. The following are the dignitaries: Dr.V.Rama Jyotshna Kumari (Chief Patron) Principal & RJD Guntur, Dr.Eda Samuel Reddy (Chief Guest), Chairman, Spandana Eda International Foundation,Dr.V.Srikanth Reddy,Prof.in Psychology,SV University,Dr.Indla Rama Subba Reddy,Director,India's Vimhans Hospital,Vijayawada, Dr. Eda Samuel Reddy, Chairman, Spandana Eda International Foundation,Dr.B.Prasad Babu,Assit.Regional Director,IGNOU and Dr.T.D.Vimala ,Psychologist, ANU counselling centre.

Smt.D.Chandrika, Lecturer in Psychology welcomes the dignitaries has given brief introduction about the programme. Principal & RJD, Guntur Dr.V.Rama Jyotsna Kumari briefed about the importance of Mental health. She also explained that to improve mental health we have to follow some of the methods like practicing Yoga,meditation etc; Spandana Eda International Foundation Chairman, Dr.Eda Samuel Reddy has addressed that every psychologist must know the latest therapies.Dr.Indla Rama Subba Reddy addressed about the emerging problems of society.Dr.T.D.Vimala,Psychologist,ANU counselling centre explained about some of the therapies.Guest of honour Psy Vishes explained about Psychological First aid.The programme was concluded by vote of thanks of smt. Chandrika. All Psychologists and other faculty members have actively participated in this programme.

**Evidence:**



**సమాజాభివృద్ధిలో సైకాలజిస్టుల పాత్ర గణనీయం**

గుంటూరు కల్చరల్ ఆర్కైవ్ 3, ప్రభాకర్ వార్డు : ఆధునిక సమాజంలో గ్రేటరైన నేపథ్యంలో మనసులు మనస్తాపాలు మధ్య తేడాపడడం అనేక ఒత్తిళ్లు, అవాంఛనీయ పరిస్థితుల్లో మనస్తత్వ శాస్త్రవేత్తల ఆవనం ఎంతైనా ఉండని ఆయా రంగాలకు ఉన్నతమైన ఉపాధి అవకాశాలు మొదలగా ఉన్నాయని శ్రీ వెంకటేశ్వర విశ్వవిద్యాలయ సైకాలజీ విభాగం ప్రెసిడెంట్ అచార్య వి.శ్రీకాంఠరెడ్డి పేర్కొన్నారు. ఆదివారం స్థానిక ప్రభుత్వ మహిళా కళాశాలలో ఆలంబియూ సైకాలజీ విద్యార్థులు, ప్రొఫెసర్లకు 'మెంటల్ హెల్త్' అంతుపై ఒక రోజు రాష్ట్ర స్థాయి అవగాహన సదస్సు నిర్వహించారు. ముఖ్య అతిథిగా పాల్గొన్న అచార్య శ్రీకాంఠరెడ్డి మాట్లాడుతూ చిన్న కుటుంబాలు విద్యావిధానంలో మార్పులు ఇంటర్నెట్ సామాజిక మాధ్యమాల అన్ని వయస్సుల వారిని ప్రభావితం చేయడం ద్వారా మనస్థితి ఒత్తిళ్లకు లోనవుతున్నారని తద్వారా అనేక మానసిక రుగ్మతలు గుర్తి జీవితాల అర్థాంతరంగా ముగింపుకుంటున్నారని ఆందోళన వ్యక్తం చేశారు. ప్రముఖ వ్యక్తిత్వ విశాస నిపుణులు డాక్టర్ ఇంద్ర రామసుబ్బారెడ్డి మాట్లాడుతూ శారీరక ఆరోగ్యంతో పాటు మానసిక ఆరోగ్యాన్ని కాపాడుకోవడం నిరంతర ప్రక్రియగా మారాలన్నారు. సదస్సుకు అధ్యక్షత వహించిన ప్రెసిడెంట్ డాక్టర్ వి.రమాజోత కుమారి మాట్లాడుతూ సైకాలజీ ప్రవేశాలకుగా తమ కళాశాల తరగతులు నిర్వహించే విద్యార్థుల మానసిక విభాసనల్ని దోచుకుంటున్నట్లు తెలియజేశారు. డాక్టర్ తి.పి.వి.మల దాక్షర్ వారు భాషమోయిన, విశేష, స్పందన ఉండే ఇంటర్నెట్ సౌకర్యాలను, కార్యక్రమంలో ఆలంబియూ సైకాలజిస్టు ఆసోసియేషన్ అధ్యక్షులు వి.కృష్ణబాబు, సురీ శ్రీనివాసులు, చంద్రిక శ్రీనివాసులు రెడ్డి ఆధిపత్యంలో సైకాలజిస్టులు, సైకియోలాజిస్టులు తరచురలు పాల్గొన్నారు.



**సమాజాభివృద్ధిలో సైకాలజిస్టుల పాత్ర గణనీయం**

**ప్రాఫెసర్ వి.శ్రీకాంఠ రెడ్డి**

గుంటూరు, ఆక్టోబర్ 3 (ఆంధ్రప్రదేశ్): ఆధునిక సమాజంలో గ్రేటరైన కరణ నేపథ్యంలో మనసులు మనస్తాపాలు మధ్య తేడాపడడం అనేక ఒత్తిళ్లు, అవాంఛనీయ పరిస్థితుల్లో మనస్తత్వ శాస్త్రవేత్తల ఆవనం ఎంతైనా ఉండని ఆయా రంగాలకు ఉన్నతమైన ఉపాధి అవకాశాలు మొదలగా ఉన్నాయని శ్రీ వెంకటేశ్వర విశ్వవిద్యాలయ సైకాలజీ విభాగం ప్రెసిడెంట్ అచార్య వి.శ్రీకాంఠ రెడ్డి పేర్కొన్నారు. ఆదివారం స్థానిక ప్రభుత్వ మహిళా కళాశాలలో ఆలంబియూ సైకాలజీ విద్యార్థులు, ప్రొఫెసర్లకు 'మెంటల్ హెల్త్' అంతుపై ఒక రోజు రాష్ట్ర స్థాయి అవగాహన సదస్సు నిర్వహించారు. ముఖ్య అతిథిగా పాల్గొన్న అచార్య శ్రీకాంఠ రెడ్డి మాట్లాడుతూ చిన్న కుటుంబాలు విద్యావిధానంలో మార్పులు ఇంటర్నెట్ సామాజిక మాధ్యమాల అన్ని వయస్సుల వారిని ప్రభావితం చేయడం ద్వారా మనస్థితి ఒత్తిళ్లకు లోనవుతున్నారని తద్వారా అనేక మానసిక రుగ్మతలు గుర్తి జీవితాల అర్థాంతరంగా ముగింపుకుంటున్నారని ఆందోళన వ్యక్తం చేశారు. ప్రముఖ వ్యక్తిత్వ విశాస నిపుణులు డాక్టర్ ఇంద్ర రామసుబ్బారెడ్డి మాట్లాడుతూ శారీరక ఆరోగ్యంతో పాటు మానసిక ఆరోగ్యాన్ని కాపాడుకోవడం నిరంతర ప్రక్రియగా మారాలన్నారు. సదస్సుకు అధ్యక్షత వహించిన ప్రెసిడెంట్ డాక్టర్ వి.రమాజోత కుమారి మాట్లాడుతూ సైకాలజీ ప్రవేశాలకుగా తమ కళాశాల తరగతులు నిర్వహించే విద్యార్థుల మానసిక విభాసనల్ని దోచుకుంటున్నట్లు తెలియజేశారు. డాక్టర్ తి.పి.వి.మల దాక్షర్ వారు భాషమోయిన, విశేష, స్పందన ఉండే ఇంటర్నెట్ సౌకర్యాలను, కార్యక్రమంలో ఆలంబియూ సైకాలజిస్టు ఆసోసియేషన్ అధ్యక్షులు వి.కృష్ణబాబు, సురీ శ్రీనివాసులు, చంద్రిక శ్రీనివాసులు రెడ్డి ఆధిపత్యంలో సైకాలజిస్టులు, సైకియోలాజిస్టులు తరచురలు పాల్గొన్నారు.



పాటు మానసిక ఆరోగ్యాన్ని కాపాడుకోవడం నిరంతర ప్రక్రియగా మారి అవ్వాలి. సైకాలజిస్టులు సామాజిక ఇంటర్నెట్ గా మారి రుగ్మతలను పాల్గొనే రాణి విలువైనవారు. సదస్సుకు అధ్యక్షత వహించిన ప్రెసిడెంట్ డాక్టర్ వి.రమాజోత కుమారి మాట్లాడుతూ సైకాలజీ ప్రవేశ అంతుకా తమ కళాశాల తరగతులు నిర్వహించే విద్యార్థుల మానసిక విభాసనల్ని దోచుకుంటున్నట్లు తెలియజేశారు. డాక్టర్ తి.పి.వి.మల దాక్షర్ వారు భాషమోయిన, విశేష, స్పందన ఉండే ఇంటర్నెట్ సౌకర్యాలను, కార్యక్రమంలో ఆలంబియూ సైకాలజిస్టు ఆసోసియేషన్ అధ్యక్షులు వి.కృష్ణబాబు, సురీ శ్రీనివాసులు, చంద్రిక శ్రీనివాసులు రెడ్డి ఆధిపత్యంలో సైకాలజిస్టులు, సైకియోలాజిస్టులు తరచురలు పాల్గొన్నారు.

**DEPARTMENT OF PSYCHOLOGY  
2020-21**

**ACTIVITY INTEGRATING HUMAN VALUES**

**“Strategies for Psychological Wellness” (06-12-2021)**

**Objectives**

1. To aware the individuals towards the importance of mental health
2. To develop the emotional strength in the individuals by changing their thought process

**Date:** 06-12-2021

**Time:** 2.30 PM in Assembly Hall, GCW(A), Guntur

**Participants:** All B.A (PEP, SHT, HEP, CE, TTM), Vocational Intermediate Students, faculty and other

**No of Students:** 200

**No of Faculty:** 12

**Other Participants:** 8

**Out Comes**

4. Students have got the awareness regarding the importance of mental health. They have learnt some of the coping strategies to minimize excessive stress levels.
5. They understood that positive thinking process is very important to maintain good mental health.

**Description:**

The Depts. of Psychology and Sociology, Govt.College for Women (A) has conducted on Awareness Programme “**Strategies for Psychological Wellness**” on 06-12-2021 at Assembly hall Govt.College for women (A) Guntur. The following are the dignitaries: Dr.V.Rama Jyotshna Kumari (Chief Patron) Principal & RJD Guntur, Dr.Eda Samuel Reddy (Chief Guest), Chairman, Spandana Eda International Foundation and Krishana Bharat (Guest of honour) Psychologist.

Smt.D.Chandrika Lecturer in Psychology welcomes the dignitaries has given brief introduction about the programme. Spandana Eda International Foundation Chairman, Dr.Eda Samuel Reddy has addressed the students that when the younger generation thinks and follows the right path they can achieve their aims and goals. Principal & RJD, Guntur Dr.V.Rama Jyotsna briefed about Psychological well-being is attained by achieving a state of balance affected by both challenging and rewarding life events. Psychologist Krishana Bharath as said that: different concepts of residential and social environment has more impact on the life of student and if we mould those circumstances in our favour we can achieve successful life. Dr.V.Naveen Kumar, Lecturer in Sociology briefed about key points of dignitaries. The programme was concluded by vote of thanks of smt. Chandrika. NSS co-ordinator M.Vijaya Lakshmi and other faculty members have actively participated in this programme.

**Evidence:**

GOVT. DEGREE COLLEGE FOR WOMEN (A)  
GUNTUR  
DEPT. OF PSYCHOLOGY & SOCIOLOGY  
Awareness Programme on

# STRATEGIES FOR PSYCHOLOGICAL WELLNESS

Date : 06-12-2021

**CHIEF PATRON**  
Dr. V. Rama Jayashankar Kumar  
Principal : Govt. Degree College for Women (A) Guntur.

**CHIEF GUEST**  
Dr. Eda Samuel Reddy  
Chairman : Sreematha Eda International Foundation, Chairman : Sreejaya Group of Companies, Resident of Shringa Image of Eda Award, Dubai, Chairman: Development Committee, Govt. Vocational Junior College, Guntur

**GUEST OF HONOUR**  
Psy. Kirishana Bharat  
President: APA India, Executive Committee Member: SPS, Psychology Assn, National Vice President : SEF



విశాఖలంఠ్రం  
విశాఖలంఠ్రం విజయం తథ్యం

విశాఖలంఠ్రం-గుంటూరు : యుక్త వయసు అదపెల్లలు తమ ఆలోచనలను సవ్యమైన మార్గంలో సదిపించ కలిగితే అనుకున్న లక్ష్యాలు సాధిస్తారని స్పందన తీద ఇంటర్వెన్షన్ సర్ ఫౌండేషన్ వైర్లన్ డాక్టర్ ఈదా శామ్మూల్ రెడ్డి పేర్కొన్నారు. స్థానిక ప్రభుత్వ మహిళా కళాశాల డిపార్టుమెంట్ ఆఫ్ సైకాలజీ, సోషియాలజీ అధ్యయనంలో 'స్ట్రెబిటిస్ ఫర్ సైకలాజికల్ వెల్ నెస్' అంశంపై అవగాహన సదస్సు నిర్వహించారు. ముఖ్య అతిథిగా పాల్గొన్న డాక్టర్ శామ్మూల్ రెడ్డి మాట్లాడుతూ 'వ్యక్తిగత బలహీనతలను అనుగుణ్యతలో ఉంచుకుంటూ ఎంచుకున్న లక్ష్యాల వైపు ప్రత్యేక దృష్టితో క్రమేణా తగ్గి దండ్రుల ఆశయాలతో పాటు తమ జీవితాలకు ఇంగారు బాట వేసుకున్న వారవలారని చెప్పారు. ప్రముఖ సైకాలజిస్ట్ బి.కృష్ణ భారత్ మాట్లాడుతూ ఇంది వాతావరణం, వసరాల ప్రభావం వంటి 6 అంశాలు విద్యార్థినుల జీవితాలను ప్రభావితం చేస్తాయని, వాటిని అనుకూలంగా మలచుకుంటే విజయవంతమైన జీవితాన్ని సాధించుకోవచ్చని తెలియజేశారు. కళాశాల ప్రిన్సిపల్, ఎన్ఎస్ఐ ఆర్కెడి డాక్టర్ వి.రామ కోప్పాకుమారి సభకు అధ్యక్షత వహించగా బహు విసి ఇన్సైర్ట్ కోఆర్డినేటర్, వైస్ ప్రిన్సిపాల్ డాక్టర్ కవిత, సైకాలజీ, సోషియాలజీ విభాగాధిపతులు డి.నాగ చంద్రిక, డాక్టర్ వి.సమీర్ కుమార్, ఎన్ఎస్ఐఎస్ కోఆర్డినేటర్ ఎం.విజయలక్ష్మి పాల్గొన్నారు.



**సవ్యమైన ఆలోచనలతో లక్ష్యసాధన**

గుంటూరు(విద్య), డిసెంబరు 6: యువతులు తమ ఆలోచనలను సవ్యమైన మార్గంలో సదిపించగలిగితే అనుకున్న లక్ష్యాలు సాధించగలరని స్పందన ఈదా ఇంటర్వెన్షన్ ఫౌండేషన్ వైర్లన్ డాక్టర్ ఈదా శామ్మూల్ రెడ్డి పేర్కొన్నారు. సోమవారం ప్రభుత్వ మహిళా డిగ్రీ కళాశాలలో డిపార్టుమెంట్ ఆఫ్ సైకాలజీ, సోషియాలజీ అధ్యయనంలో నిర్వహించిన 'స్ట్రెబిటిస్ వెల్ నెస్' కార్యక్రమంలో ఆయన మాట్లాడారు. యువత తమ లక్ష్యంవైపు ప్రత్యేకదృష్టి సారించాలని సూచించారు. తల్లిదండ్రుల ఆశయాల సాధనకోసం కృషిచేయాలన్నారు. ఆవేశంతో కూడిన అనాలోచిత నిర్ణయాలు జీవితాన్ని ఇబ్బందుల్లో పడేస్తాయని చెప్పారు. కార్యక్రమంలో సైకాలజిస్టు బి.కృష్ణభారత్, ప్రిన్సిపాల్ డాక్టర్ వీఆర్ జ్యోత్సుకుమారి, వైస్ ప్రిన్సిపాల్ కవిత, సైకాలజీ, సోషియాలజీ విభాగాధిపతులు డి.నాగచంద్రిక, డాక్టర్ వి. సమీర్ కుమార్, ఎన్ఎస్ఐఎస్ కోఆర్డినేటర్ ఎం.విజయలక్ష్మి పాల్గొన్నారు.



**DEPARTMENT OF SANSKRIT  
2020-21**

**ACTIVITY INTEGRATING HUMAN VALUES**

<b>Objective:</b>	To create interest in students on Sanskrit language and to develop good character and moral values
<b>Date :</b>	20-10-2021
<b>Time :</b>	4.00 PM
<b>Participants:</b>	Students and faculty of Sanskrit, History and Telugu department and Prof. Ch. Praveen
No. of students	100
No. of faculty	5
Other participants	1
<b>Description in brief:</b>	Brief history of Maharshi Valmiki and epic Ramayana
<b>Outcome:</b>	<ul style="list-style-type: none"><li>● Students will get to know about Valmiki and Ramayana</li><li>● Helps students to know the moral values in Ramayana</li><li>● Helps to maintain good relation with family</li></ul>
<b>Evidence:</b>	



**DEPARTMENT OF SANSKRIT  
2020-21**

**ACTIVITY INTEGRATING HUMAN VALUES  
Educational Trip**

<b>Objective:</b>	Learning through experience
<b>Date :</b>	29-12-2021
<b>Time :</b>	9.00 AM to 7.00 PM
<b>Participants:</b>	Students and faculty of Sanskrit, Urdu and Hindi department
No. of students	30
No. of faculty	3
Other participants	0
<b>Description in brief:</b>	<p>Educational trip to Kondapalli, Babu Museum</p> <ul style="list-style-type: none"><li>● Kondapalli fort also known as kondapalli Killa was built by Prolaya vema Reddy of Reddy Kingdom during 14 century .The fort is located to the west of Vijayawada city in the main hill range known as kondapalli in krishna district the main entrance gate is called the "Dargah Darwaja" built with single block of granite .</li></ul>
<b>Outcome:</b>	<ul style="list-style-type: none"><li>● Observational learning takes place.</li><li>● Learning local culture.</li><li>● Understand and process through learning experiences.</li></ul>
<b>Evidence:</b>	





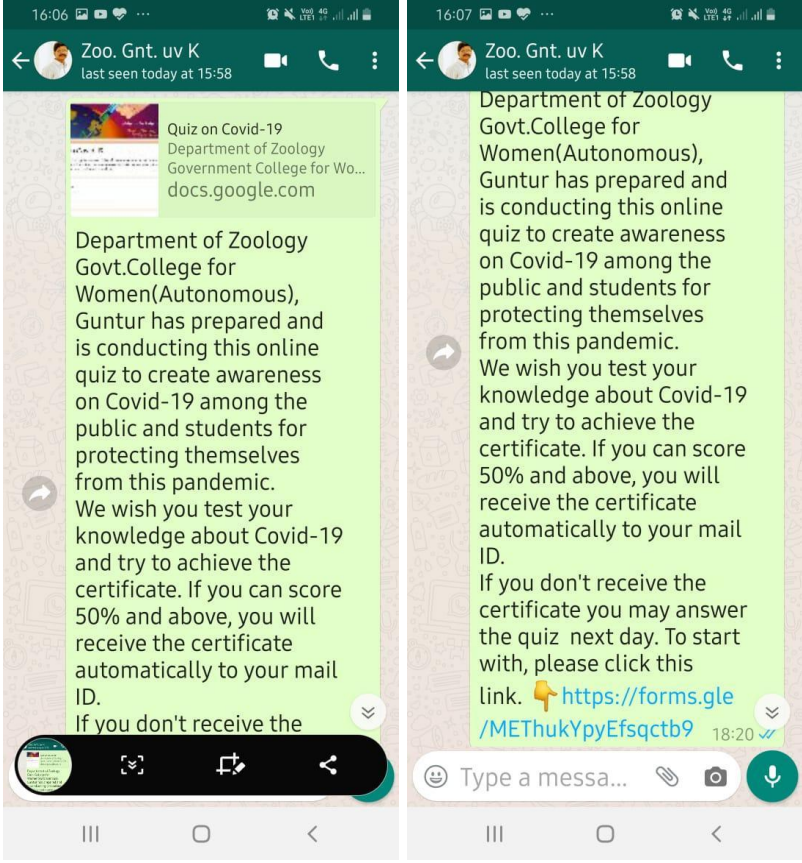
## DEPARTMENT OF ZOOLOGY & AQUACULTURE

2020-21

### ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY

Name of the Activity	Online Quiz on Covid - 19
Objective	To create the awareness of covid-19 for students and public To share some of the precautions and measurers of corona virus
Date	06.05.2020
Time	---
Participants	Students and public
No.of students	1128
No.of faculty	9
Other participants	Nil
Description in brief	Department of Zoology has prepared and conducted online quiz to create awareness on Covid-19 among the public and students for protecting themselves from this pandemic. The quiz consisted of 25 multiple choice questions and an e-certificate was sent automatically to their mail Id to the participants who scored 50% and above. The quiz was open for

	15 days. 1,128 students and public participated in the online quiz.
Outcome:	The students got knowledge about the corona virus and covid-19 including issues around, symptoms, testing etc.,





**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)**  
SAMBASIVAPET, GUNTUR, A.P - 522001  
(NAAC Accredited "B++" Grade Institution)  
College with Potential for Excellence



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**CERTIFICATE OF PARTICIPATION**

CERTIFICATE ID: YJUDBU-CE000324

Date: 9-5-2020

*This is to certify that Maneendra has successfully passed with 60% marks in the awareness online Quiz on Covid-19 conducted by the department of Zoology.*

**Coordinators**

(E.B.Ramaraju & U.Venkateswarlu)

**I/c of the department**

(Dr.N.Ankamma)

**Principal**

(Dr. V.R. Jyotsna Kumari)

**DEPARTMENT OF ZOOLOGY & AQUACULTURE  
2020-21**

**ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY**

Name of the Activity	Online Quiz on Aquaculture
Objective	To create the awareness of general fisheries science for students and public


	To share various AP fishery policy schemes To provide knowledge for various competitive exams to the students
Date	01.06.2020
Time	-----
Participants	Students and public.
No.of students	450
No.of faculty	10
Other participants	Nil
Description in brief	Department of Zoology conducted online quiz on <b>aquaculture</b> in order to elicit general awareness of <b>fishery science</b> .The quiz consisted of 25 multiple choice questions from different aspects of Aquaculture. An e-certificate was sent automatically to their mail Id to the participants who scored 40% and above. The quiz was open for 15 days. 460 students and public participated in the quiz.
Outcome	<ol style="list-style-type: none"> <li>1. The students were able to know basic knowledge of aquaculture</li> <li>2. To test their knowledge in aquaculture</li> </ol>

Quiz on general awareness of "Fisheries science"  
Department of Zoology, Gov...  
docs.google.com

Department of Zoology, Government College for Women (Autonomous), Guntur has prepared and is conducting this online quiz on aquaculture in order to elicit general awareness of fisheries science. Interested Candidates may utilize this opportunity during this COVID-19 lockdown period. Answer the quiz and achieve the certificate. If you can score 40% and above, you will receive the e-certificate automatically to your mail ID. To start with, please click this link. 🖱️ <https://forms.gle/b4qZwpjWlhbos9HF9>

ry Science ☆

Questions Responses 469 Total points: 30




### Quiz on general awareness of "Fisheries science"

Department of Zoology, Government College for Women (Autonomous), Guntur has prepared and is conducting this online quiz on aquaculture to assess general awareness of Fisheries science.


Email address \*

Valid email address

This form is collecting email addresses. [Change settings](#)



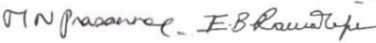
**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)**  
 SAMBASIVAPET, GUNTUR, A.P - 522001  
 (NAAC Accredited "B++" Grade Institution)  
 College with Potential for Excellence




\*\*\*\*\*  
CERTIFICATE OF PARTICIPATION  
 \*\*\*\*\*

CERTIFICATE ID: **GOBSDG-CE000221** Date: **3-6-2020**


*This is to certify that Prashanthi gogulapalli has successfully passed with 97% marks in the online Quiz on "General Awareness of Fisheries Science" conducted by the department of Zoology.*



**Coordinators**  
(Dr.M.N.Prasanna & E.B.Ramaraju)



**I/c of the department**  
(Dr.N.Ankamma)



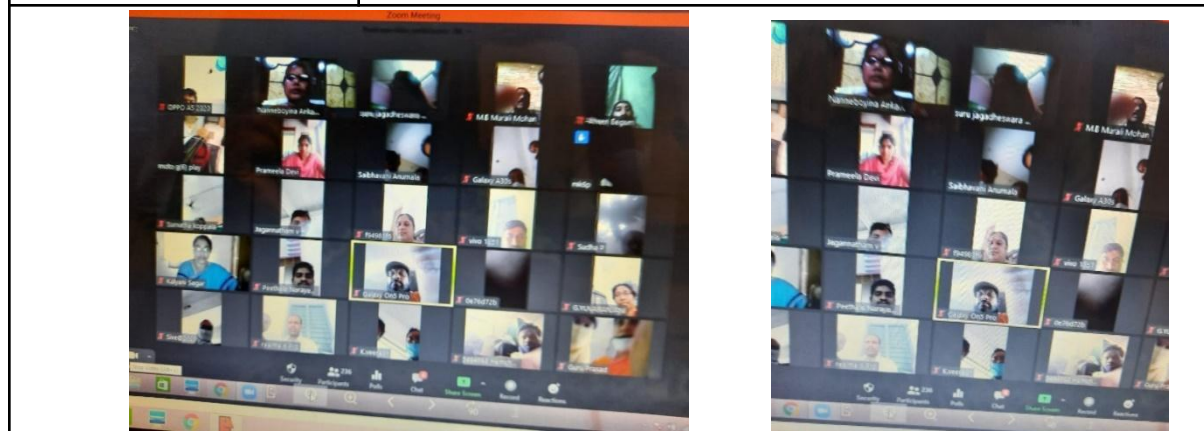
**Principal**  
(Dr. V.R. Jyotsna Kumari)

**DEPARTMENT OF ZOOLOGY & AQUACULTURE  
2020-21**

**ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY**

**Orientation to Junior Lecturers of Govt. Jr Colleges by Dr.Ankamma**

Name of the Activity	Orientation to Junior Lecturers of Govt. Jr Colleges
Objective	To update the knowledge of Jr. Lecturers on Human Immune System.
Date	02.06.2020
Time	10.00 -2.00Pm
Participants	Jr. Lecturers from AP. Board of Intermediate Education and Resource person
No.of students	----
No.of faculty	450
Other participants	Dr.Ankamma. N
Description in brief	Orientation programme was conducted through online for Jr. Lecturers of Govt. Jr Colleges of Andhra Pradesh on Immune System. Dr. Ankamma acted as Resource Person for training Jr. Lecturers and explained the basic concepts of immunology.
Outcomes	Create awareness on basic concepts of immunology, understanding the structure of Human immune system and Covid – 19 and immunity, vaccination strategy in India and awareness on vaccine and its impact on human health and orientation towards EAMCET and NEET Entrance examinations



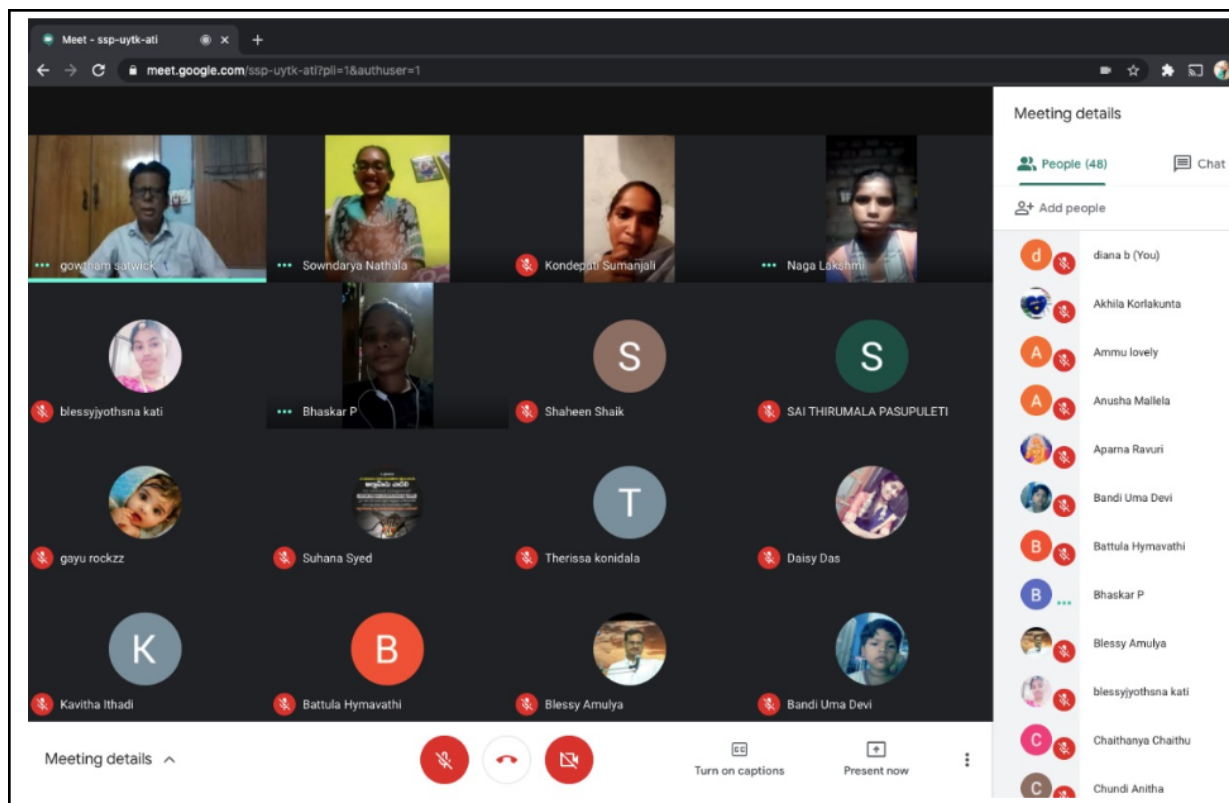


## DEPARTMENT OF ZOOLOGY & AQUACULTURE 2020-21

### ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY

**Conducted awareness programme on malaria on the occasion of Malaria Day**

Name of the Activity	<b>Conducted awareness programme on malaria on the occasion of Malaria Day</b>
Objective	To create awareness about the diseases caused by the animals and micro organisms The causes of the diseases and the precautions to be taken
Date	20.08.2020
Time	7.00-8.30pm
Participants	Students, staff and resource person
No.of students	48
No.of faculty	9
Other participants	Dr. Hanumatha Raju
Description in brief	Dr. Hanumatha Raju explained about various seasonal diseases and deaths caused by microorganisms and domestic animals from 13 <sup>th</sup> -19 <sup>th</sup> century around the world.
Outcome	To get awareness on communicable diseases and their causes and remedies.



## DEPARTMENT OF ZOOLOGY & AQUACULTURE 2020-21

### ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY

#### Conducted online Quiz on the occasion of “International Ozone Day’

Name of the Activity	<b>Conducted online Quiz on the occasion of Ozone Day</b>
Objective	To create awareness on ozone related to the preservation of ozone layer To reduce the substances related to the destruction of ozone layer The invisible ozone layer around that protecting from the UV rays and reducing its bad effect on living things especially on human beings
Date	16.09.2020
Time	----
Participants	Students and public
No.of students	449

No.of faculty	11
Other participants	Nil
Description in brief	An online quiz was conducted on ozone layer to bring up the hidden talents in the students on ozone and atmospheric layers. In this quiz 25 multiple choice questions were given. An e-certificate was sent automatically to their mail Id to the participants who scored 40% and above. The quiz was open for 15 days. 460 students and public participated in the quiz.
Outcome:	By conducting this online quiz the students get useful information about the preliminary causes of skin cancers, skin burns, several pigmentations, speed up of aging of skin and also prolonged exposure to UV rays damaging the tissues of the eyes and can cause a burning of eye surface known as snow blind ness etc. The causative agents of ozone depletion and preservation of ozone layer

### Online Quiz on Awareness on preservation of ozone layer

Organised by Department of Zoology, Government college for women (A), Guntur  
forms.gle

<https://forms.gle/eNU861mzZF9c3RGbA>



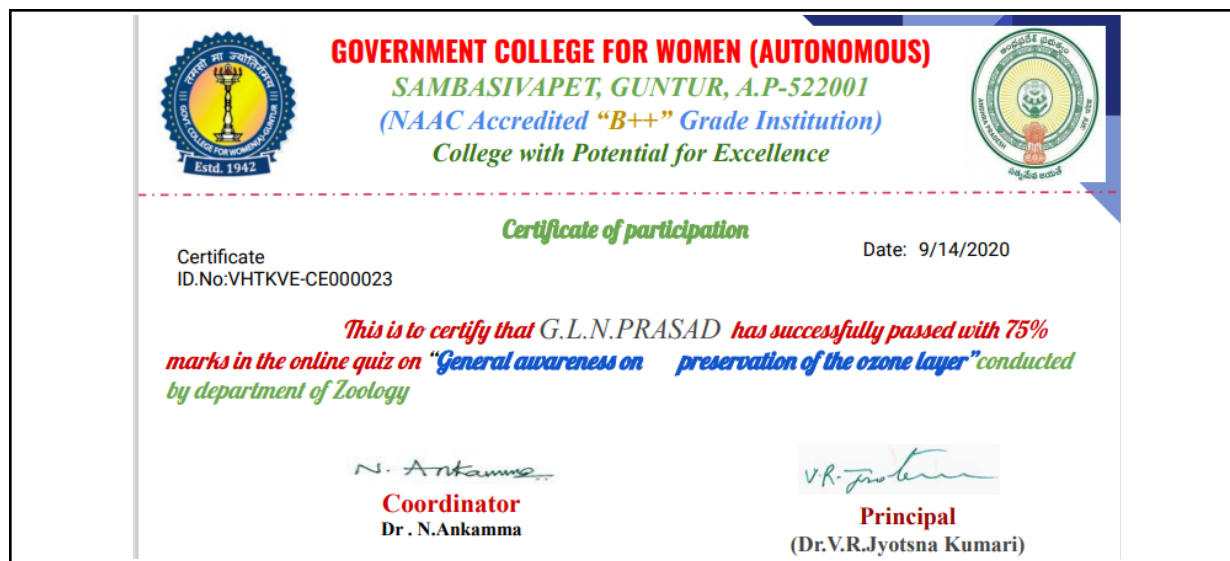
Dear all,

Department of Zoology, Government college for women (A), Guntur is conducting online quiz to create awareness in students on the preservation of ozone layer on the occasion of "International ozone day".

All the participants who scores above 40% will receive E-certificate.

Please share among your students and colleagues.

3:06 pm



## DEPARTMENT OF ZOOLOGY & AQUACULTURE 2020-21

### ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY

#### Webinar on World Animal Day

Name of the Activity	Webinar on World Animal Day
Objective	To create awareness about the welfare of the animals Acknowledge the diverse roles that animals play in our lives –from being our companions, supporting and helping us, to brining a sense of wonder into our lives
Date	04.10.2020
Time	4.00 - 6.00PM
Participants	Students, faculty and resource person
No.of students	30
No.of faculty	9
Other participants	Dr. J. Abraham Lincoln
Description in brief	Dr. J. Abraham Lincoln, Deputy Director, Dept of Animal Husbandry, Vijayawada acted as Resource Person for this webinar. He explained about various animal rights and welfare of animals and the various roles played by animals in our daily life.
Outcome:	The students were able to understand the various animal issues, animal rights and welfare standards of animals. They gained

knowledge about the various endangered species and their protection.

**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)**  
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**WEBINAR**  
Organized by  
**DEPARTMENT OF ZOOLOGY**  
**ANIMAL RIGHTS AND WELFARE**  
(On the occasion of world animal day)  
04.10.2020  
Resource person

**Dr. J. Abraham Lincon**  
Deputy Director  
Department of Animal Husbandry  
Vijayawada

Organizing Secretary  
Dr. N. Lakshmi

Registration Link:  
<https://forms.gle/3hag>  
Phone Number:  
728 2589 4431  
SUNDAY  
Sunday: 4 to 6 pm

President:  
Dr. N. Lakshmi  
Principal

Forwarded

Dear faculty and students, on the occasion of World Animal Day on 04-10-2020, Department of Zoology, Government college for women (A), Guntur is organizing Webinar on "Animal rights and welfare". Date & Time: 04-10-2020--4.00 pm to 6.00pm. Resource person: Dr. J. Abraham Lincon, Deputy Director, Animal Husbandry Department, Vijayawada. All are welcome

[https://www.google.com/url?q=https://us04web.zoom.us/j/72825894431?pwd%3DvNlRU2s5cUozV2NuWlYwUmtEYSt5QT09&sa=D&source=calendar&usd=2&usq=AOvVaw246GFH\\_xqnvuitwmH2xoRa](https://www.google.com/url?q=https://us04web.zoom.us/j/72825894431?pwd%3DvNlRU2s5cUozV2NuWlYwUmtEYSt5QT09&sa=D&source=calendar&usd=2&usq=AOvVaw246GFH_xqnvuitwmH2xoRa)

Remaining Meeting Time: 02:38 | Upgrade to Pro

Participants (39)

Find a participant

- Ankamma Na... (Host, me)
- Lincon
- (18405004) Ch swarnalatha
- 18405014 (u/jaya laksh...
- Ankamma Nanneboyina

Lincon	Ankamma Nanneb...	bandhavi 18 3818	RAMA RAJU Ed...
Dr. M. H. RAJU	VASANTHI KRISHN...	Nightingale b2...	Kanaparthi Amarthi...
Rani Salivendram	(18405004) Ch s...	D. Bhavani bai	M.hari chandana
Venkateswarlu Up...	Korabandi pavit...	prathap	Kondepati Sum...
B2 Ramavath Sa...	18405014 (l....	Divya sivani.N	Manichandana....

Participants in the grid: Rani Salivendram, (18405004) Ch s..., D. Bhavani bai, M.hari chandana, Bhargavi.peddi, Venkateswarlu Up..., Korabandi pavit..., prathap, Kondepati Sum..., Daisy Das kattem, B2 Ramavath Sa..., 18405014 (l...., Divya sivani.N, Manichandana..., V pavani bai.

**Govt. College for Women(A), Guntur**  
**Dept. of Zoology**  
**Departmental Activities 2020-21**  
**Webinar on World Immunization Day**

Name of the Activity	Webinar on World Immunization Day
Objective	To promote the use of vaccines to protect people of all ages against disease.
Date	10.11.2020
Time	6.30-8.30PM
Participants	Students, faculty and Resource person
No.of students	90
No.of faculty	9
Other participants	Dr. Shariq Ali
Description in brief	He explained in detail about evolution of human immune system and role of individual immunity in covid-19 situation
Outcome	<ol style="list-style-type: none"> <li>1. Students understand the human immune system</li> <li>2. Importance of immune system in maintaining individual health</li> <li>3. Structure of immune system and theme behind celebration of immunization day on 10 November.</li> <li>4. Students got the basic knowledge on compulsory vaccination for covid -19</li> </ol>



**GOVERNMENT COLLEGE FOR WOMEN(A)**  
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**National Webinar on the Occasion of World Immunization Day**  
 Organized by  
**DEPARTMENT OF ZOOLOGY**  
 Theme: "Immunization and Covid-19"  
 10-11-2020  
 Resource Person

Time: 3:00 pm to 6:00 pm

**Prof. Shankar Akbar Ali**  
 Head Postgraduate Department of Biotechnology & Principal of GOWA, Sambasivapet, Guntur, A.P.

**Organizing Secretary**  
 Dr. M. Hanumanth...

Forwarded

GCW (A), Guntur- Zoology is inviting you to a scheduled zoom meeting. Govt. College for Women (A), Guntur- Department of Zoology inviting to National webinar on the occasion of World Immunization day on November 10th 2020. Join

Zoom Meeting  
[https://us04web.zoom.us/j/6145886537?](https://us04web.zoom.us/j/6145886537?pwd=M2RPODJwdy9vNFRoano3Mk5xeHVxUT09)  
 pwd=M2RPODJwdy9vNFRoano3Mk5xeHVxUT09

Meeting ID: 614 588 6537  
 Passcode: 4fKfJP

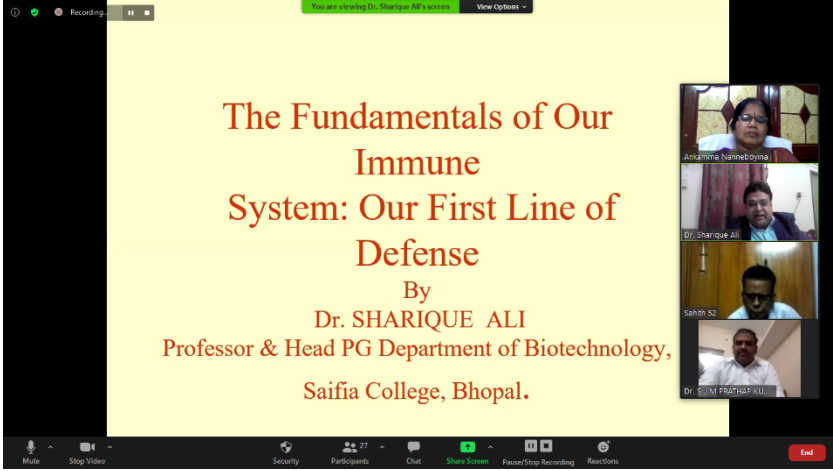
3:00 pm ✓

Recording

The session is being recorded.

# The Fundamentals of Our Immune System: Our First Line of Defense

By  
**Dr. SHARIQUE ALI**  
 Professor & Head PG Department of Biotechnology,  
 Saifia College, Bhopal.



Participants: Ankamma Nanneboyma, Dr. Sharique Ali, Sakthi S2, Dr. C. M. PRASANTH KU.

Mute, Stop Video, Security, Participants (27), Chat, Share Screen, Pause/Stop Recording, Reactions, End

Zoom Meeting 40-Minutes

Recording...

Less than 1 minute | Upgrade to Pro

Speaker View

		K.D.Das	Dr. B Diana Saty...	Likhitha
GONE MANASA		M Aruna	Ch. Nagajyothi(C...	Vijaya Rekha
manasvi 16 3817	Ankamma Nann...		Rosy	Chinthamalla ke...
Nagalakshmi b2	Pulivarthi vani		LakshmiBharani...	Suma
	Madaka poorne...	P.venkata sandhya	Blessy Jyothsna	

Mute, Stop Video, Security, Participants (27), Chat, Share Screen, Pause/Stop Recording, Reactions, End

Type here to search

19:32 10-11-2020

**DEPARTMENT OF ZOOLOGY & AQUACULTURE  
2020-21**

**ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY**

**Online Quiz on Aquaculture on the occasion of World Fisheries Day**

Name of the Activity	<b>Conducted Online Quiz on Aquaculture on the occasion of World Fisheries Day</b>
Objective	To create general awareness on Aquaculture
Date	21.11.2020
Time	----
Participants	Students and faculty
No.of students	95
No.of faculty	10
Other participants	Nil
Description in brief	Aquaculture online quiz was conducted on basic knowledge of fisheries on the occasion of World Fisheries Day
Outcome:	<ol style="list-style-type: none"><li>1. Through this quiz students learn scientific names of various indigenous and exotic species</li><li>2. Students got information on various culture systems of aquaculture</li><li>3. They have knowledge on various research institutes in India working on Aquaculture</li><li>4. Students gained basic information on various nets and gears used in different geographical areas</li><li>5. Students were acquainted with various abbreviations and basic terminology used in fisheries sector.</li></ol>

The image shows a screenshot of an online quiz interface on the left and a certificate of participation on the right. The quiz interface is titled "Quiz on Aquaculture" and is part of an online quiz conducted by the Department of Zoology, Government College for Women (A), Guntur. It features a header with "Questions Responses 172" and "Total points: 20". Below the header is a banner image of fish. The quiz details include the department name, the occasion (World Fisheries Day), and a form for email addresses. The certificate, titled "Certificate of Participation", is issued to Bandhavi. K, a student of Loyola Public School, Guntur, who scored 90% in the E-Quiz on "Aquaculture" organized by the Dept. of Zoology on 21st November 2020. The certificate is signed by Dr. M. Naga Prasanna, Co-ordinator, and Dr. V.R. Jyotsna Kumari, Principal, both of the Government College for Women (A), Guntur. The certificate ID is FCGJJS-CE000002.

## DEPARTMENT OF ZOOLOGY & AQUACULTURE 2020-21

### ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY

#### Awareness programme on HIV on the occasion of AIDS Day

Name of the Activity	Awareness programme on HIV on the occasion of AIDS Day
Objective	To create awareness about the symptoms, causes and preventives of the pandemic disease HIV/AIDS that has taken unprecedented number of lives. To create awareness among the students to unite and fight against AIDS To show support for people living with AIDS
Date	01.12.2020
Time	11.00am -1.00pm
Participants	Students, faculty and resource persons
No.of students	70
No.of faculty	13

Other participants	Dr. G. Snigdha
Description in brief	Dr. G. Snigdha created awareness on the 2021 AIDS day theme <i>i.e.</i> , End inequalities. End AIDS. End pandemics, Principal of the college Dr. V. R. Jyotsna Kumari, Dr. Hanumantha Raju, RRC District Co-ordinator, NCC Co-ordinators of the college addressed the students
Outcome:	Students got the information on various routes of transmission of HIV Got the information on ART centres available in Guntur Dist.





## DEPARTMENT OF ZOOLOGY & AQUACULTURE 2020-21

### ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY

#### Extension Activity to Govt . Junior College for Women, Guntur

Name of the Activity	<b>Extension Activity to Govt. Junior College for Women, Guntur</b>
Objective	To improve practical knowledge
Date	25.11.2020
Time	11.00AM – 12.00PM
Participants	Govt. Jr. college for girls, Guntur BiPC students, faculty
No. of students	90
No. of faculty	5
Other participants	Nil

Description in brief	Students of Govt Jr. College, Guntur visited Zoology museum. Dr. Ankamma, Dr. BDJ Satya Latha and Dr. Naga Prasanna explained about various invertebrate and vertebrate spotters. The students gave positive feedback of the conducted activity
Outcome:	The students were able to identify museum specimen/pictures of minor phyla, invertebrates, protochordates and vertebrates and the students were very much excited to see all the museum specimens which they learnt from their zoology text books.
	
	

**DEPARTMENT OF ZOOLOGY & AQUACULTURE  
2020-21**

**ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY**

**Celebration of Darwin's Day**

Name of the Activity	<b>Celebration of Darwin's Day</b>
Objective	To highlight Darwin's work and to celebrate science
Date	12.02.2022
Time	11.00am to 12.00pm
Participants	Students and faculty
No.of students	15
No.of faculty	2
Other participants	Nil

Description in brief	To commemorate the birth anniversary of Charles Darwin, Darwin Day is celebrated. In connection to this elocution competition was conducted on the topic “ Importance of DarwinDay”. The students participated actively and shared their views on the topic.
Outcome:	The students were able to know the importance of Darwin Day They got knowledge about the various significant contributions in the field of science and humanity They were able know about the Darwin finch birds They got knowledge about the Survival of the fittest



**DEPARTMENT OF ZOOLOGY & AQUACULTURE  
2020-21**

**ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY**

**Extension activity at ZPHS, Nallapadu**

Name of the Activity	<b>Extension activity at ZPHS, Nallapadu</b>
Objective	To raise the standard of students in rural areas
Date	17.02.2021
Time	1.00pm to 4.00pm
Participants	Students and faculty
No.of students	5
No.of faculty	1
Other participants	Nil
Description in brief	The department of zoology adapted the Z.P High School of Nallapadu from the academic year 2015-2016, as an extension activity the department taught biology subject to 10th class students of EM and TM. One faculty from the departemnt and 4 students from III MZC(EM) went to teach biology. The students of the college taught reproduction in animals and plants to school students.
Outcome:	Students understood reproduction in human beings and plants. Students are able to build confidence learning the difficult topics Two students were taken as faculty to teach the students in that school as there are no biology faculty and explain about environmental issues.





**DEPARTMENT OF ZOOLOGY & AQUACULTURE  
2020-21**

**ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY**

**Workshop on Food Adulteration**

Name of the Activity	<b>Workshop on Food Adulteration</b>
Objective	To create awareness on different food adulterants , about the role of AGMARK and FSSAI in food safety, food regulation acts and policies and simple tests to identify food adulterants at home.
Date	02.03.2021
Time	1.00 – 4.00pm
Participants	Students, faculty and resource persons
No.of students	94
No.of faculty	9

Other participants	Smt. K. Padmaja, B. Amrutha,Jr. Chemists from AGMARK laboratory , Guntur.
Description in brief	The resource persons explained about various food adulterants in daily using commodities and the role of AGMARK and FSSAI in maintaining food safety
Outcome:	<ol style="list-style-type: none"> <li>1. The students were able to know what are food adulterants</li> <li>2. They were equipped with simple tests to identify food adulterants.</li> <li>3. The students were able to know the importance of AGMARK and FSSAI in maintaining food safety.</li> </ol>

**Workshop on  
Food Adulteration  
02.03.2021 at 1.00PM**

Department of Zoology  
Government College for Women (A), Guntur  
And Regional Agmark Laboratory, Guntur  
Directorate of Marketing & Inspection Ministry of  
Agriculture and Farmers Welfare, Government of India

**Sessions on  
Role of AGMARK in Food safety  
Rapid Detection Tests for Food Adulteration**





## DEPARTMENT OF ZOOLOGY & AQUACULTURE 2020-21

### ACTIVITY INTEGRATING HUMAN VALUES

#### Celebration of International Yoga Day on 21.06.2021

Name of the Activity	<b>Celebration of International Yoga Day on 21.06.2021</b>
Objective	The main objective behind the celebration of Yoga Day is to make the ancient practice (Yoga) popular among the present generation of people who are unaware of its benefits. Adopting this practice is believed to provide significant relief from physical ailments and mental tension which plagues our day to day life. Regular practice will strengthen the muscles of our arms, back, legs, and core.
Date	21.06.2021
Time	6.00-8.00pm
Participants	Students, staff and resource person

No.of students	40
No.of faculty	10
Other participants	Dr. K.Kondaiah, rtd. Lecturer in zoology and master trainer in yoga
Description in brief	Dr. K. Kondaiah explained the importance of yoga in present day life, demonstrated various simple yogasanas and breathing exercises to which are useful release the stress and for maintain ing healthy life.
Outcome:	<ol style="list-style-type: none"> <li>1. The students were able to know the importance of yoga day</li> <li>2. They were able to perform simple yogasanas and breathing exercises.</li> </ol>

**GOVERNMENT COLLEGE FOR WOMEN(A)**  
**SAMBASIVAPET, GUNTUR, A.P. - 522001**  
 (NAAC Accredited "B++" Grade )  
 College with Potential for Excellence

**Webinar on the occasion of International Yoga Day**  
 Organized

**DEPARTMENT OF ZOOLOGY**  
 "Yoga and its impact on Health"  
**21-06-2021**

**Time - 5.00 pm - 8.00 pm**

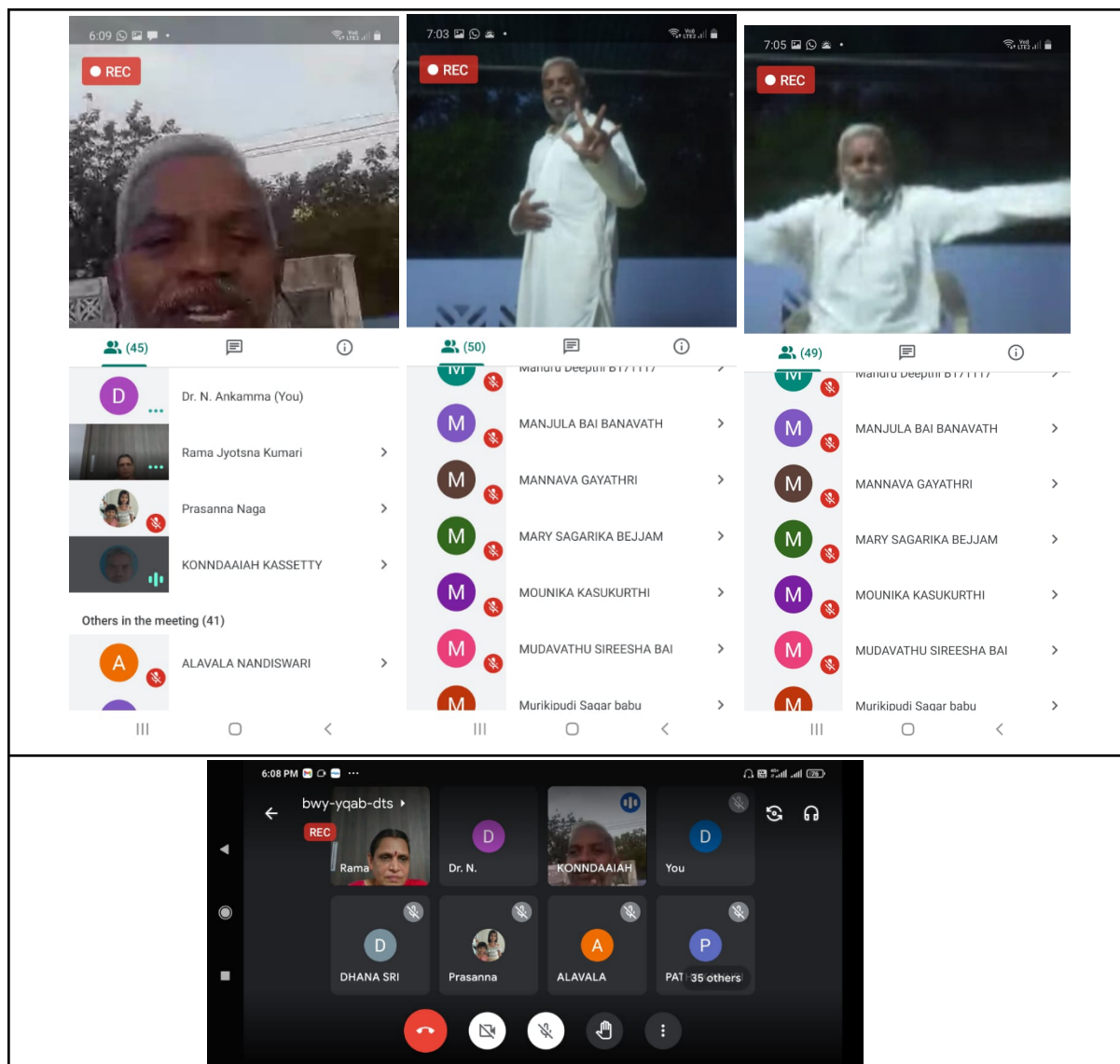
**Resource Person**

**Dr. K. Kondaiah**  
 Rtd Professor  
 and  
 Master Trainer in Yoga

**Google meet Link**  
[meet.google.com/bwy-yqab-dts](https://meet.google.com/bwy-yqab-dts)

**Organizing Secretary**  
 Dr. K. Anjanamma  
 Head of the Department of  
 Zoology

**Dr. S. B. Anjana Kumari**  
 Principal and R.J.O (P.A.C)  
 Zone - II  
 Guntur



**DEPARTMENT OF ZOOLOGY & AQUACULTURE  
2020-21**

**ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY**

**Guest Lecture on Biodiversity**

Name of the Activity	<b>Guest Lecture on Biodiversity</b>
Objective	To know the biodiversity status of India at present
Date	14.04.2021
Time	7:00 – 8:00PM
Participants	Students, Faculty and Resource person
No.of students	90

No.of faculty	9
Other participants	Dr. G.L.N. Prasad
Description in brief	Resource person explained about Biodiversity Dimensions and Dynamics
Outcome:	<ol style="list-style-type: none"> <li>1. Students got the basic information on different species, diversity, statistical data of existing, endangered and rare species.</li> <li>2. They got information on difference between alpha, beta and gamma diversity</li> <li>3. Various protective laws of wild life</li> <li>4. Conservation strategies to be followed</li> </ol>

Variety is the spice of life

- Living world harbors variety
- 20000 ant species
- 3,00,000 beetle species
- 28,000 fish species
- 20,000 orchid species

Alpha diversity indicates the diversity of species in a single ecosystem

Beta diversity shows a comparison between two ecosystems in diversity of species

Gamma diversity reflects overall diversity of many ecosystems

Close Participants (33)

Search

- Ankamma Nanneboyina (me)
- G.L.N. Prasad (Host)
- 1812
- aruna Jyothi
- ashok
- B veereswari
- Bogam Prasad
- Darla Thulasi
- dasari surekha
- Dayamani
- Deepthi
- Dondapati chinnari
- Galaxy J5 Prime

Invite

7:14 Close Participants (30)

Search

- Ankamma Nanneboyina (me)
- G.L.N. Prasad (Host)
- 1812
- ashok
- B veereswari
- Bogam Prasad
- Darla Thulasi
- dasari surekha
- Dayamani
- Galaxy J5 Prime
- Galaxy M01
- J.Nehachandana
- K balabhargavi

Invite

**DEPARTMENT OF ZOOLOGY & AQUACULTURE  
2020-21**

**ACTIVITY INTEGRATING ENVIRONMENT SUSTAINABILITY**

**Guest Lecture on Fisheries Education**

Name of the Activity	<b>Guest Lecture on Fisheries Education</b>
Objective	To create basic knowledge about fisheries industry and various job opportunities available in fisheries sector
Date	16.07.2021
Time	11.00am to 1.00pm
Participants	Students, staff and resource person
No.of students	30
No.of faculty	9
Other participants	Resource person I. S. Chakrapani, Lecturer in Zoology, PRR & VS Govt. college, Vidavalur
Description in brief	The resource person explained the importance of fisheries in present day life, foreign exchange, various opportunities in fisheries sector very clearly.
Outcome:	<ol style="list-style-type: none"><li>1. Students are able to understand the various institutes and the eligibility criteria to get admission into those institutes</li><li>2. Students got information on foreign exchange gained through exports</li><li>3. Students are able to understand the scarcity of technical expertise in fisheries field</li><li>4. They got information on present scenario of fisheries education.</li></ol>

The image displays four screenshots from a Google Meet session, arranged in a 2x2 grid. The top-left screenshot shows a grid of 15 participants, including Chakrapani IS, Vasimalla Kavitha, Vijaya Chatla, Yammela Rachel, Swapna Yelika, Pallavi Gujjula, Sofiya Mallela, Gowravarapu Gangabhav..., Jandrajupalli Devamma, Guntanala Gayathri, P Likhitha, and Manava Gayathri. The top-right screenshot shows a presentation slide titled "FISHERIES EDUCATION" by Dr. I.S. Chakrapani, Lecturer in Zoology at PRR & VS Govt. College, Vidavalur. The bottom-left screenshot shows a grid of 15 participants, including Chakrapani IS, Vasimalla Kavitha, Vijaya Chatla, Yammela Rachel, Swapna Yelika, Pallavi Gujjula, Sofiya Mallela, Gowravarapu Gangabhav..., Jandrajupalli Devamma, Guntanala Gayathri, P Likhitha, and Manava Gayathri. The bottom-right screenshot shows a presentation slide titled "Indian Fishery Facts" with the following text: "India is home for more than 10% of global fish diversity. - contributes to 6.3% of global fish production. - Has 8129kms of coast; vast inland resources which include @2lak km of rivers and canals".

REC

Chakrapani IS is presenting

2:16 PM | nbg-ncvx-wyy

FISHERIES EDUCATION

DR. I.S. CHAKRAPANI  
Lecturer in Zoology  
PRR & VS Govt. College  
Vidavalur

2:16 PM | nbg-ncvx-wyy

REC

Chakrapani IS is presenting

2:33 PM | nbg-ncvx-wyy

Indian Fishery Facts

India is home for more than 10% of global fish diversity.  
- contributes to 6.3% of global fish production.  
- Has 8129kms of coast; vast inland resources which include @2lak km of rivers and canals

2:33 PM | nbg-ncvx-wyy

REC

Chakrapani IS

VASIMALLA KAVITHA

Vijaya Chatla

YAMMELA RACHEL

Swapna Yelika

pallavi gujjula

sofiya mallela

Gowravarapu Gangabhav...

JANDRAJUPALLI DEVAMMA

GUNTANALA GAYATHRI

P LIKHITHA

MANNAVA GAYATHRI

Geethamadhuri Potteti

Prasanna Naga

23 others

You

3:16 PM | nbg-ncvx-wyy