

[2021-2022]

Zone:

District: EAST GODAVARI

Name of the College and Address

SKR GOVERNMENT DEGREE COLLEGE (W), RAJANAHENDRAVARAH

Name of the Lecturer

M. KASHA

Name of the Subject

ZOOLOGY

Date of Joining in Degree College Date

08-08-2012

Date of Retirement

28-07-2045

S.No	Key Indicator	List of files/ documents to be kept ready as a proof of Key Indicator	Information in support of the key indicator	Key Aspect Scores	Pre-determined Weightage (Wi) for Key Indicator	Key Indicator Grade Points (KIGP) (A=3; B=2; C=1; D=0)	Key Indicator Wise Weighted Grade Points (KIWGP) = KIGP X Wi	KIWGP as per Academic Advisor's grading	Guidelines
<b>I-CURRICULAR ASPECTS</b>									
1	Curricular Planning and Implementation (for Autonomous Colleges - Efforts for Curriculum Design and Development to be considered)	Preparation and Implementation of 1 Annual Academic Curriculum Plan 2 Course Objectives & Outcomes 3 Teaching Diary 4 Lesson Plans 5 Active Participation in BOS	Course wise/Sem wise Records for the Academic Year	2x5 = 10	30	B	40		1) All five key indicators =3 Grade points/A 2) Any four key indicators =2 Grade points B 3) Any two key indicators =1 Grade points C 4) No Indicator =0/D
			Course wise/Sem wise Records for the Academic Year	2x5 = 10					
			Invitation Letter & Attendance	10					
2	Curriculum Flexibility/Enrichment	1. Additional inputs related to Curriculum of the courses taught 2. Value added courses offered & completed a) Certificate b) Diploma c) Any Online courses like MOOCs	a) Course wise/Sem wise additional inputs Reports	10	20	B	30		1) All three key indicators =3 Grade points A 2) Any two key indicators =2 Grade points B 3) Any one key indicator =1 Grade point C 4) No Indicator =0/D
			b) Report on Certificate/ Diploma	2x5=10					
			c) Any Online courses like MOOCs						
3	Feedback system	Feedback on Curriculum by Students a) Collected b) Analyzed c) Action taken	Course wise/Sem wise a) Reports of Feedback b) Analysis Reports c) Action taken Report	10	10	A	30		1) All three key indicators =3 Grade points/A 2) Any two key indicators =2 Grade points/B 3) Any one key indicator =1 Grade point C 4) No Indicator =0/D
<b>II-TEACHING, LEARNING &amp; EVALUATION</b>									
4	Catering to Student Diversity	1. Report on grouping of students into Slow, Moderate and Advanced learners 2. Course wise activities designed for Slow, Moderate and Advanced learners	1. Course wise/Sem wise Reports with lists of students (Slow, Moderate and Advanced learners) 2. Course wise/Sem wise Activities designed for Slow, Moderate and Advanced learners	10	20	A	30		1) All three key indicators =3 Grade points/A 2) Any two key indicators =2 Grade points/B 3) Any one key indicator =1 Grade point C 4) No Indicator =0/D
			1. Report on Course wise Bridge Courses conducted 2. Report on Course wise Remedial coaching conducted	1. Course wise/Sem wise Reports on Bridge Courses conducted 2. Course wise/Sem wise Report on Remedial coaching conducted					

No	Key Indicator	List of files/documents to be kept ready as a proof of Key Indicator	Information in support of the key indicator	Key Aspect Scores	Predetermined Weightage (Wi) for Key Indicator	Key Indicator Grade Points (KIGP) (A=3; B=2; C=1; D=0)	Key Indicator Wise Weighted Grade Points (KIWWGP) = KIGP X Wi	KIWWGP as per Academic Advisor's grading	Guidelines
5	Teaching-Learning Process	1. Report on student centered methods implemented (Course wise) 2. Report on implementation of ICT in teaching and learning (Course wise) or Report on implementation of Computer/Internet assisted learning (Course wise) 3. Report on the Use of LMS tools (Course wise) 4. Contribution for the development of LMS in the concerned subject 5. Report on innovative pedagogical Tools used	Course wise/ Sem wise Reports	50	50	B	100		1) All five key indicators =3 Grade points/A 2) Any three key indicators =2 Grade points/B 3) Any two key indicator =1 Grade point/C 4) Below two=0/D
6	Teacher Profile and Quality	1. Report on Seminars/Conferences/ Workshops/ Guest Lectures organized 2. Report on Participation in Seminars Conferences/Workshops/ Guest Lectures/ Invited talks 3. Awards and recognition 4. Participation in Short term/ Orientation /Refresher courses/FDPs 5. E- Content Development /MOOCs (Massive Open Online Courses) 6. Additional Qualifications acquired during the last two years	Reports and Certificates	30	30	B	60		1) Any five key indicators =3 Grade points: A 2) Any three key indicators =2 Grade points B 3) Any two key indicator =1 Grade point/C 4) Below two=0/D
	Evaluation Process and Reforms	1. Report on Formative Evaluation (CIE) 2. Assignments-Critical, Innovative, text book and Internet based 3. Involvement in Summative evaluation 4. Maintaining Marks Register & Result Analysis register	Department wise reports regarding 1. Mid exams, Seminar Reports, Assignment books, Projects and any other tools of Internal Assessment 2. Departmental Internal Marks Register for CIA verified by the Principal	10 10 5 5	30	A	90		1) All four key indicator Metrics =3 Grade points: A 2) Metrics 1, 2, 4 =2 Grade points/B 3) Metrics 1, 2, 3 =1 Grade point/C 4) Below two=0/D
	Student Performance and Learning Outcomes	1. Announcement and Attainment of Course Outcomes 2. Report on Student seminars/ Student demonstrations (Course wise) 3. Report on activities like Quiz/ Group discussion/ Poster presentation (Course wise) 4. Report on Field trips (Course wise) 5. Report on Student Study projects (Course wise)	Course wise Reports	5x6=30	30	A	90		1) All five key indicators =3 Grade points/A 2) First KI Metric and any three other =2 Grade points/B 3) First KI Metric and any two other =1 Grade point/C 4) Below two =0/D

No	Key Indicator	List of files/documents to be kept ready as a proof of Key Indicator	Information in support of the key indicator	Key Aspect Scores	Predetermined Weightage (Wi) for Key Indicator	Key Indicator Grade Points (KIGP) (A=3; B=2; C=1; D=0)	Key Indicator Wise Weighted Grade Points (KFWGP) = KIGP X Wi	KFWGP as per Academic Advisor's grading	Guidelines
<b>III-RESEARCH, INNOVATIONS AND EXTENSION</b>									
9	Funding obtained for Research (Govt. Non-Governmental Bodies)	1 Minor Research Projects	Letter of intimation and award letters (For Current Year only Either Ongoing OR Completed )	5	20	-	-		1) All three key indicators =3 Grade points A 2) Any two key indicators =2 Grade points B 3) Any one key indicator =1 Grade point C
		2 Major Research Projects		10					
		3 Consultancy Projects		5					
10	Research Publications and Awards	1 Papers Published in Journals / Chapters published in edited volumes		10	60	-	-		1) Any three key indicators =3 Grade points A 2) Any two key indicators =2 Grade points B 3) Any one key indicator =1 Grade point C 4) No Indicator=0/D
		2 Books published as single author		15					
		3 Books published as Co-Author		10					
		4 Papers/Chapters published as Co-Author (Note: A maximum of 3 publications in Scopus/Web of Science/ICIR or UGC-CARE Listed journals/Any book with ISBN shall be considered)		5					
		5 Research Guideship		10					
		6 Awards in recognition of research work		10					
11	Extension Activities	Academic Extension activities through DRC/ Faculty Outreach (Curriculum Skill Domain related)	Reports in the NAAC format	10	20	A	30		1) All three key indicators =3 Grade points A 2) Any two key indicators =2 Grade points B 3) Any one key indicator =1 Grade point C 4) No Indicator=0/D
		Involvement in activities related to community service a. Sensitising the students about the value of Community Service b. Organising the activity (A maximum of 5 Programmes resulting in Community Service like ODF/Swachh Bharat/UBA etc)	Reports in the NAAC format	5+5					
12	Functional MoUs /Collaborations with Govt and Non Governmental Organisations	1 Collaboration with University/ Industry/NGO/ Any other Agency 2 Consultancy offered 3 Amount generated through Consultancy	MoUs - 5 points Consultancy offered -10 Amount generated through Consultancy - 5 points	20	20	-	-		1) All three key indicators =3 Grade points A 2) Any two key indicators =2 Grade points B 3) Any one key indicator =1 Grade point C 4) No Indicator=0/D
<b>IV- USE OF INFRASTRUCTURE &amp; LEARNING RESOURCES</b>									
13	Physical facilities	Infrastructural facilities in the Department/Colleges a. Use of Digital Classrooms b. Use of Virtual Classroom c. Use of Labs d Use of Library e. Nlist usage f. Maintenance of Departmental Library	Log books related to usage	20	20	A	60		1) Any four key indicators =3 Grade points A 2) Any three key indicators =2 Grade points B 3) Any two key indicators =1 Grade point C 4) Below two Indicators=0/D

S.No	Key Indicator	List of files/ documents to be kept ready as a proof of Key Indicator	Information in support of the key indicator	Key Aspect Scores	Predetermine d Weightage (Wi) for Key Indicator	Key Indicator Grade Points (KIGP) (A =3; B=2; C=1; D=0)	Key Indicator Wise Weighted Grade Points (KFAWGCP) = KIGP X Wi	KFAWGCP as per Academic Advisor's grading	Guidelines
<b>V- ROLE IN STUDENT SUPPORT AND PROGRESSION</b>									
14	Student Support	1. Counseling of students as Mentor/ Class teacher a. Student Profile Collection b. Semester wise updation and maintenance 2. Any other Study Material, Guidance a) Academic guidance for the advanced learner (offering suggestions/reference books) b) Handholding the slow learners (offering study material/ question banks) 3. Guiding/Monitoring Students for CSP/Internship 4. Organizing/Participation in Parent Teacher Meetings	Reports in the NAAC format	20 10 10 10	50	A	150		1) All Four key indicators =3 Grade points/A 2) Any Three key indicators =2 Grade points/B 3) Any Two key indicator =1 Grade point/C 4) Below two=0/D
15	Student Progression	Report on Programme Course wise students' progression to a) Higher Education b) Employment c) Entrepreneurship	Reports in the NAAC format	10 10 10	30	B	60		1) All three key indicators =3 Grade points/A 2) Any two key indicators =2 Grade points/B 3) Any one key indicator =1 Grade point C 4) No Indicator=0 D
<b>VI- ROLE IN INSTITUTIONAL GOVERNANCE</b>									
16	Participation in Institutional Governance and Leadership	a) Contribution to Departmental Vision & Mission and Departmental Action Plan b) Participation in different institutional committees and preparation of committee reports c) Participation in different institutional activities that focus on value based education d) Contribution to IQAC/quality initiatives	Reports in the NAAC format	4x10	40	A	120		1) All Four key indicators =3 Grade points/A 2) Any Three key indicators =2 Grade points/B 3) Any Two key indicator =1 Grade point C 4) Below two=0/D
<b>VII- BEST PRACTICES</b>									
17	Best Practices	Identification and Contribution to a) The Departmental Best practices b) Institutional Best practices	Reports in the NAAC format	20	20	A	60		1) All Two key indicators =3 Grade points/A 2) Any one key indicator =2 Grade points/B 3) No Indicator=0 D
<b>Total Grade points</b>					500				

Name & Signature of the Principal

Name & Signatures of the Academic advisors

*P. [Signature]*

**PRINCIPAL**  
S.K.R. Government Degree College (Women)  
RAJAMAHENDRAVARAM,  
East Godavari Dist., Andhra Pradesh



- 1)
- 2)
- 3)

**Accredited at B+ Level by NAAC**  
**RAJAMAHENDRAVARAM-East Godavari Dist. (A.P.)**

**PERFORMANCE APPRAISAL REPORT FOR SELF APPRAISAL OF TEACHERS**  
**UPTO2022**



**A. General Information :**

- a) Name : M.Kasma  
b) Date of Birth : 11-02-1986  
c) Residential Address : Dr No20-15-24,Tummalava,sambasivarao peta,1<sup>st</sup>  
cross Road.  
d) Designation : Lecturer  
e) Department : Zoology  
f) Area of Specialization :  
g) Date of Appointment :08-08-2012  
h) i) In the Institution : 08-08-2012  
ii) In the Present Post :

**B. Academic Qualifications:**

Exam. Passed	Board/ University	Subject	Year	Division/ Grade Merit etc.,
High School	Board of Secondary Education	Telugu,Hindi,English, Maths,Science,Social	2001	I
Higher Secondary or Pre-Degree	Board of Intermediate Education	Bi.P.C Botany, Zoology,Physics, Chemistry	2003	II
Bachelor's Degree	Andhra University	B.Sc Botany,Chemistry, Zoology	2006	I
Master's Degree	Andhra University	M.Sc Zoology	2012	I



Image

Text


2/7


Research Degree(s)	-	-	-	-
Other Diploma/ Certificates etc.,	B.Ed	Biological Science	2008	I


**C. Research Experience & Training :**


Research Stage	Title of Work/ Theses	University where the work was carried out
M. Phil or equivalent	-----	-----
Ph.D	-----	-----
Post-Doctoral	-----	-----
Publications	-----	-----
Research Guidance (give name of students guided successfully)	-----	-----


Scanned with OKEN Scanner

  
 Crop

  
 Markup

  
 Share

  
 Signature

  
 More



- b) Co-Curricular Activities : Guest Lectures,  
Field-trips, Project works
- c) Enrichment of Campus Life : Member of Alumni  
association
- d) Students Welfare and Discipline : Supporting the  
students financially to pay college tuition fee
- e) Membership/ Participation in Bodies/ :  
Committees on Education and  
National Development
- f) Professional Organization of Teachers

**J) a) Membership of Professional Bodies/  
Societies**

**b) Editorship of Journals**

**K) Assessment :**

- a) Steps taken by you for the  
evaluation of the course and its analysis  
programme taught : Collection of feed back from the students

**L) General Data**

State brief assessment of your performance indicating

- a) Achievements :
- a) Difficulties faced and : Lack of Inter-disciplinary labs
- b) Suggestions for Improvement :
- c) Conduct hands on training sessions
- d)





- c) Laboratory Experiments : Demonstrations and computer aided techniques
- d) Evaluations Methods : Regular assessment of assignments, Periodical tests
- e) Preparation of Resource Material :  
Including Books, Reading Materials :  
Laboratory Manuals
- f) Remedial Teaching/ Student : Regular sessions organized

g) Any other

h) **Extension Work/ Community**

a) Please give a short account of  
Your contribution to

i) Community work such as : Participated in Teacher conventions, Youth conventions organized by the Ramakrishna Matt and Mission, Rajamahendravaram  
Values of National Integration  
Secularism, Democracy, Socialism, Humanism, Peache, Scientific temper, Flood or Drought Relief, Small family Norms

ii) National Literacy Mission :

b) Positions held/Leadership role :  
With extension work and National Service Scheme (NSS) or NCC or Any other activity

**I) Participation in Corporate Life :**  
Please give a short account of your contribution to

a) College /University/ Institution :

- b) Co-Curricular Activities : Guest Lectures,  
Field-trips, Project works
- c) Enrichment of Campus Life : Member of Alumni  
association
- d) Students Welfare and Discipline : Supporting the  
students financially to pay college tuition fee
- e) Membership/ Participation in Bodies/ :  
Committees on Education and  
National Development
- f) Professional Organization of Teachers

**J) a) Membership of Professional Bodies/  
Societies**

**b) Editorship of Journals**

**K) Assessment :**

- a) Steps taken by you for the  
evaluation of the course and its analysis  
programme taught : Collection of feed back from the students

**L) General Data**

State brief assessment of your performance indicating

- a) Achievements :
- a) Difficulties faced and : Lack of Inter-disciplinary labs
- b) Suggestions for Improvement :
- c) Conduct hands on training sessions
- d)

**COURSE OUTCOMES****SEMESTER -I****PAPER –I BIOSYSTEMATICS ,BIODIVERSITY AND EVOLUTION**

- Acquire a thorough understanding of the principles and practices of systematics
- Provide an in-depth knowledge on the diversity and relationships in animal world
- Develop a holistic appreciation on the phylogeny and adaptations in animals
- Understand the taxonomic procedures to identify a species.
- Acquire the skills of nomenclature of species and sub species.
- Classify animals on the basis of their relation to other animals by body structure,external characters, development and DNA
- Apply the International rules of Nomenclature to give a scientific name to animals which are found during research..
- Understand the gradual development an This paper is aimed to introducing the students for the salient features of Taxonomy and Evolution. d evolutionary history of different kinds of living organisms from earlier forms over several generations
- Understand and demonstrate the internal anatomy of various animals,biodiversity and related indices

**PAPER –II Tools and Techniques In Biology**

This paper is aimed to Tools & techniques in Biology.

- This paper is aimed to Tools & techniques in Biology.
- Explain Microscopy, Colorimetry ,Chromatography principle, process, applications and working of related instruments.
- Demonstrate Microbiological, Cytological, Histological, Molecular biological techniques.
- Apply and demonstrate Immunological Surgical Immunodetection and Cell culture techniques.
- Understand Cryopreservation, Radioisotope and Isotope techniques and applications of all the techniques in biology

**PAPER- III BIOMOLECULES**

This paper is aimed to introduce molecular biology viz Amino acid, DNA, RNA and Enzyme.

- 1 To explain Biomaterial, Nanoparticles and their importance.
  - 2 To understand biological reactions, structure of protein, carbohydrates fats ,nucleic acids and their metabolism.
- Understand the chemical nature of life and life process
  - Develop an idea on structure and functioning of biologically important molecules
  - Generate an interest in the subject and help students explore the new developments in Biomolecules
  - Create curiosity in antioxidants and their role in cure of diseases.
  - Inculcate an interest for further research

This paper is aimed to introduce molecular biology viz Amino acid, DNA,RNA and Enzyme.

- 1 To explain Biomaterial, Nanoparticles and their importance.
- 2 To understand biological reactions, structure of protein, carbohydrates fats, nucleic acids and their metabolism.

**PAPER- IV MOLECULAR BIOLOGY**

- Learn the structural and functional details of the basic unit of life at the molecular level
- Motivate the learner to refresh and delve into the basics of cell biology
- To introduce the new developments in molecular biology and its implications in human welfare •Provide a thorough knowledge on types and properties of Cancer and how normal cells become cancerous.
- Learn new strategies in cancer treatments.

**SEMESTER –II****PAPER- I BIOSTATISTICS AND BIOINFORMATICS**

- Impart concepts. generate enthusiasm and make awareness about the tools/gadgets and accessories of biological



**SEMESTER –II****PAPER- I BIOSTATISTICS AND BIOINFORMATICS**

- Impart concepts, generate enthusiasm and make awareness about the tools/gadgets and accessories of biological research
- Equip the learner to carry out original research in biology
- Inculcate analytical and critical thinking skills through problem solving
- Acquire hands on training in the use of various tools and techniques suggested in the course.
- Develop skills to solve scientific problems with statistical formulas.
- Expose the learners to the emerging field of bioinformatics and equip them to take up bioinformatic studies.

**PAPER –II ANIMAL PHYSIOLOGY**

- Learn to compare the functioning of organ systems across the animal world
- Get an over view of the comparative functioning of different systems in animals
- Learn more about human physiology, disorders and the preventive measures.
- Create awareness about physiological corrective measures in society.
- Understand the basic levels of various factors for proper functioning of body

**PAPER –III IMMUNOLOGY**

- Provide an intensive and in-depth knowledge to the students in immunology
- Understand the role of immunology in human health and well-being
- Familiarize the students the new developments in immunology
- Learn the way body fights foreign bodies
- Understand the risks in transplantation of organs.

**PAPER –IV MOLECULAR BIOLOGY**

3. Demonstrate knowledge of the central dogma of biology and predict outcomes when the process malfunctions.

Students will demonstrate ability to communicate knowledge about a research topic including organization, critical analysis, content, presentation, formatting, and stylistic choices

4. Understand various genetic processes and their applications to biological systems

**SEMESTER –III****PAPER- I APPLIED ZOOLOGY**

To develop a knowledge of enzymes and mechanism of their action in various biological reactions. 4 To understand

Knowledge of pollution of rivers, causes and control measures

**PAPER –II DEVELOPMENTAL BIOLOGY**

- Learn the concepts and process in developmental biology
- Understand and appreciate the genetic mechanisms and the unfolding of the same during development
- Create awareness on new developments in embryology and its relevance to Man
- Acquire knowledge on teratogenesis and generate awareness in society.
- Understand the causes of infertility and can take preventive measures

**PAPER – III METABOLIC CELL FUNCTION AND REGULATION**

To develop a knowledge of enzymes and mechanism.

Understand the Immobilized enzymes



**SEMESTER –III****PAPER- I APPLIED ZOOLOGY**

To develop a knowledge of enzymes and mechanism of their action in various biological reactions. 4 To understand

Knowledge of pollution of rivers, causes and control measures

**PAPER –II DEVELOPMENTAL BIOLOGY**

- Learn the concepts and process in developmental biology
- Understand and appreciate the genetic mechanisms and the unfolding of the same during development
- Create awareness on new developments in embryology and its relevance to Man
- Acquire knowledge on teratogenesis and generate awareness in society.
- Understand the causes of infertility and can take preventive measures

**PAPER – III METABOLIC CELL FUNCTION AND REGULATION**

To develop a knowledge of enzymes and mechanism.

Understand the Immobilized enzymes

**PAPER- IV PRINCIPLES OF ECOLOGY**

This paper is aimed to introducing the students for Population Ecology & Environmental Physiology

1. Understand population and its characters and regulation.
2. Correlate physiological adaptations to environment and pollution, control measures for environmental degradation.as well as risk factors to human health.
3. Understand limiting factors, predator-prey relationships and physiological responses of the body to environment

**SEMESTER –IV****PAPER –I NEUROPHYSIOLOGY AND ANIMAL BEHAVIOR**

- From this paper introduced about the animal behavior and its neurophysiology.
- Understand neurophysiology of perception memory, domestic animal and human behaviour. Analyse processes at different levels and neurophysiology of sensory processing of animal behaviour.
- Classify behavioral patterns, communication, learning and memory.

**PAPER –II ANIMAL CELL CULTURE AND STEMCELL TECHNOLOGY**

- Explain Clinical Applications of Stem cell therapy
- Understand the Hybridoma technology

**PAPER –III AQUACULTURE**

- Develop a knowledge of farming of aquatic organisms for increasing food production and animals beneficial to human.
- Observe culture techniques, farm management and hatchery operations.
- Analyse harvesting and marketing strategies. • Understand the technique of fish preservation and Water quality monitoring techniques.

**PAPER –IV ANIMAL BIOTECHNOLOGY AND BIO-ETHICS**

Give students an intensive and in-depth learning in the field of biotechnology

- Understand the modern biotechnology practices and approaches with an emphasis in technology application, medical, industrial, environmental and agricultural areas

• Learn the students with public policy, bioethics, and intellectual property rights issues related to biotechnology



**SEMESTER –IV****PAPER –I NEUROPHYSIOLOGY AND ANIMAL BEHAVIOR**

- From this paper introduced about the animal behavior and its neurophysiology.
- Understand neurophysiology of perception memory, domestic animal and human behaviour. Analyse processes at different levels and neurophysiology of sensory processing of animal behaviour.
- Classify behavioral patterns, communication, learning and memory.

**PAPER –II ANIMAL CELL CULTURE AND STEMCELL TECHNOLOGY**

- Explain Clinical Applications of Stem cell therapy
- Understand the Hybridoma technology

**PAPER –III AQUACULTURE**

- Develop a knowledge of farming of aquatic organisms for increasing food production and animals beneficial to human.
- Observe culture techniques, farm management and hatchery operations.
- Analyse harvesting and marketing strategies. • Understand the technique of fish preservation and Water quality monitoring techniques.

**PAPER –IV ANIMAL BIOTECHNOLOGY AND BIO-ETHICS**

Give students an intensive and in-depth learning in the field of biotechnology

- Understand the modern biotechnology practices and approaches with an emphasis in technology application, medical, industrial, environmental and agricultural areas
- Learn the students with public policy, biosafety, and intellectual property rights issues related to biotechnology



## ANNUAL CURRICULAR PLAN (ZOOLOGY DEPARTMENT) 2022-'23

S.K.R.GOVERNMENT DEGREE COLLEGE FOR WOMEN, RAJAMAHENDRAVARAM  
(Zoology)

CLASS & GROUP: M. Sc

**NAME OF THE LECTURERS: Dr.P.S.CH. P. DEEPIKA RANI, M.KASMA**

MONTH	PAPER	Hours	Syllabus Topic	Additional Input/Value addition to be provided/taught	Curricular Activity				Co-Curricular Activity			
					Activity to be conducted	Hours allotted	Whether Conducted	If not alternate date	Activity to be conducted	Hours allotted	Weightage	
Dec	I(F)	04	Microbial Fermentation, Design, Operation, Principle and types of fermenter and Biosensors Industrial production of chemical solvents (Alcohol), Acids (Citric, Lactic), Industrial production of antibiotics (Penicillin & Streptomycin) Vitamins (Riboflavin, B12), Single Cell Protein, Industrial Production of Amino acids, Animal Breeding, Principles Structure of Livestock Breeding	Recent advances in Single Cell Protein use as a Feed ingredient in Aquaculture	G.D Q&A	01+01	Yes	-	Assignment Seminar	01 01		
	I(P)											
	II(F)		Introduction to Animal development, Patterns of Embryonic development, Fertilization, Oogenesis & Gametogenesis, Cleavage, Gastrulation (Frog, Chick), Neuralation, Specification of Cell Fate & Cellular basis of morphogenesis autonomous, Regulative syncytial development	The Molecular basis of Fertilization	G.D	01	Yes		Seminar Assignment	01 01		
	II(P)											
	III(F)			Introduction to Ecology, Environmental concepts, Ecosystem structure & Function-Biotic & Abiotic Environments, Habitat & Niche, Dynamics of Ecosystem, Concepts of Primary Productivity, Mineral Cycling, Interspecific Interactions, Characteristics of Population	Effect of Urbanization on the Dynamics of Ecosystem Services: An analysis for	Q&A	01	Yes		Seminar	01	
						G.D	01	Yes		Assignment	01	


			decision making in Kolkata urban agglomeration							
	III(P)									
	IV(F)	Thermodynamic Principles and steady state conditions of living organisms, Organization and methods to study metabolism, Degradation of Glucose, Palmitic acid Phenylalanine, Energy metabolism and high energy compounds, Redox Potentials, Mitochondrial Electron Transport Chain	The effect of Palmitic acid on inflammatory response in macrophages an overview of molecular mechanisms	Q&A	01	Yes		Seminar	01	
				G.D	01	Yes		Assignment	01	
	IV(P)									
	I(F)	Artificial Insemination Techniques, Invitro Fertilization, Preservation Of Endangered Species, Germplasm bank, Production of Transgenic animals & their uses, Somatic Cell Nuclear Transfer In Humans, Potential Applications of Transgenic Animals-Animal Models For Diseases & Disorders	Potential Applications of Genetically Engineered (Transgenic) Animals in Medical Biotechnology for Human healthcare	Q&A	01	Yes		Seminar	01	
				G.D	01	Yes				
						Q&A	01	Yes		Assignment
	I(P)	Assay, Microscopy-Principles & Applications of Bright Field, Dark Field, Phase contrast, Flouresence, TEM,SEM	Critical Issues in Scanning Electron Microscope Metrology	Q&A	01	Yes	-	Seminar	01	
	II(F)	Mechanism of cellular differentiation-Ectoderm, Mesoderm, and Endoderm, Cell-Cell Communication, Development during organ formation, Introduction and competence, paracrine and other factor, Signal transduction cascades, Birth defects-Malformation		Q&A	01	Yes		Assignment	01	
	II(P)	Biosystematics –Definition & Basic concepts,	Biosystematics		01	Yes	-	Seminar		




JAN		Importance & Applications of Biosystematics, Material Basis of Biosystematics, Biological Classification-Theories & objectives, Procedures in Taxonomy – Taxonomic collections, Keys, Types of Taxonomy, ICZN	and Conservation Biology: Critical Science Disciplines for the management of Insect Biological diversity	Q&A					01	
	III(F)	Population growth , Growth models and Optimal yield, Life histories strategies(r & k selection) Population Demography and life tables, Evolutionary ecology ,Community ecology, Community composition	The Application of Life table Functions : A Demographic Study	G.D	01	Yes		Assignment	01	Y
				Q&A	01	Yes				
	III(P)	Chemical Foundation of Biology, Amino acids-classification, Protein- Classification, confirmation, Denaturation& Renaturation.		Q&A GD	01 01	Yes Yes				
	IV(F)	Storage and utilization of Biological energy Biosynthesis of urea ,Biosynthesis of Glucose ,Oleic acid and Prostaglandins , Nature of Enzymes	New Urea Derivatives as Potential Antimicrobial Agents: Synthesis, Biological Evaluation and Molecular Docking Studies	G.D	01	Yes		Assignment	01	Y
				Q&A	01	Yes				
	IV(P)	Experimental system in cell biology, Biomembranes	Biological membranes	Q&A		01	Yes	Assignment	01	
	I(F)	Bioremediation –Solid and Liquid waste treatment, Biomass and Energy production from waste , bioleaching, Water pollution and its control, Microbiological approach of the waste water treatment, Bio-fertilizers, Mycorrhizal Bio-fertilizers, Bacterial fertilizers, Bio-pesticides in	Progress in Bioleaching:Part B,applications of microbial process by the minerals industries	G.D		01	Yes	-	-	

		agricultural production								
	I(P)	Different Fixation & Staining Techniques for EM, Freeze- Etch, Freeze Fracture methods for EM, PH meter- Operation of PH electrode, Principles and Applications of Ion sensitive & Gas Sensing Electrode, Oxygen Electrode, Centrifugation, Chromatography, Principles, Instrumentation & Applications of UV & Visible Spectroscopy	Calcium dependent Affinity ligands for the Purification of Antibody fragments at neutral PH	Q&A	01	Yes	-	Seminar	01	
	II(F)	Establishment of body axes, Anterior-posterior, Polarity role of maternal effector, segmentation and homeotic selector genes, Dorso - ventral Polarity Differential Gene Expression during Animal Development, Differential gene Transcription, Selective Neural RNA Processing & mRNA Translation, Differential Protein Modification, Regeneration Of Organs		G.D	01	Yes		Assignment	01	
				Q&A	01	Yes		Seminar	01	
	II(P)	Origin of Basic Biological Molecules, Abiotic synthesis of organic Monomers & Polymers, Operon & Haldane concept, Evolutionary Time scale, Origin & Diversification of Eukaryotes, Evolution Eukaryotic cell from Prokaryotes, Evolution of Eukaryotic Genomes, Molecular Divergence, Phylogenetics, Universal common ancestor & Tree of life, Evolutionary relationships among taxa, Concepts of Species, Speciation		G.D	01	Yes		Seminar	01	
				Q&A	01	Yes		Assignment	01	
	III(F)	Concept of Ecological succession, Patterns of Biodiversity, Theory of Island Biogeography, Biogeographic Realms of the World, Biogeographic zones of India & Faunal Diversity, Hotspots-World, India, Environmental Stress-Environment Pollution, Major Drives of Biodiversity Change, Biodiversity Conservation, IUCN classification of Wild life, Concepts of Sustainable development		Q&A	01	Yes	-			
	III(P)	Classification & Nomenclature of Carbohydrates, Chemistry & Biological role of Homo & Hetero Polysaccharides, Peptidoglycon, Glyco proteins & Other glyco conjugates, Classification of Lipids & Fatty acids & their Physio-Chemical Properties,			01	Yes	-	Seminar	01	
FEB										

		Structure, Properties & biological role of Triacylglycerol, Phospholipids, Gangliosides, Prostaglandins, Thromboxanes & steroids		Q&A				Assignment	01	
	IV(F)	Classification & Nomenclature of Enzymes, Kinetic analysis of Enzymes Catalyzed reactions, Metabolic Profile of Adipose, Neural, Hepatic & Muscle tissues, Metabolic Engineering, Immobilized Enzymes & their Applications.		-	-	-		Assignment	01	
	IV(P)	Cytoskeleton, Cell - cell signaling, Cell - Cell adhesion & communication		GD	01	Yes	-	-	-	
MAR	I(F)	REVISION								
	I(P)	Principles, Instrumentation & Applications of Infrared, NMR Spectroscopy, Spectrofluorimetry & Mass Spectrometry, X-Ray Diffraction, Radiolabelling Techniques, Microbiological techniques	Radiolabelling of Nanomaterials: advantages and Challenges	GD	01	Yes	-	-	-	
	II(F)	REVISION								
	II(P)	Concept of Evolution, Population genetics, Phylogenetic gradualism, Punctuated Equilibrium & Origin of Higher Categories		Q&A	01	Yes	-	-	-	
	III(F)	REVISION								
	III(P)	Nucleic acids & Nucleic acid sequencing		GD	01	Yes	-	-	-	
	IV(F)	REVISION								
	IV(P)	Cell cycle, Genome organization, Intra cellular Protein Traffic		Q&A	01	Yes	-	-	-	

  
 Signature of the H.O.D

  
 PRINCIPAL  
 S.K.R. Government Degree College (Women)  
 RAJAMAHENDRAVARAM,  
 East Godavari Dist., Andhra Pradesh.

# TEACHING DIARY FOR THE YEAR 2022 - 2023

Name of the Department / Subject : ZOOLOGY

Name of the Lecturer : M. KASMA

Month & Year : December - 2022

S. No.	Date	Day	Class	Period / Time	Medium	Theory / Practical	Topic Covered	Methodology Adopted	No. of Students attended	Teaching Aids Used	Student Activity Conducted	Remarks
1.	02/12/22	Friday	II H.Sc	10.00-12.45 1,2,3	Gm	Practical	Demo class and slides	Lecture		Manual, Microscope		
2	03/12/22	Saturday					Compensative Holiday					
3.	05/12/22	Monday	II H.Sc	11.00-12.45 1,2	Gm	Theory	Introduction to animal development	Lecture	04	Black Board		
4	06/12/22	Tuesday	II H.Sc	4	Gm	Theory	Pattern of embryonic development	Lecture	05	Black Board		
				5	Gm	Theory	Pattern of embryonic development	Lecture	05	Black Board		
5.	09/12/22	Friday	II H.Sc	1,2,3	Gm	Practical	Experiment - Pregnancy test, Slides	Demonstration	05	Demonstration		
	10/12/22 to 11/12/22						Second Saturday and Sunday					
	12/12/22	Monday	II H.Sc	1	Gm	Theory	Fertilization	Lecture	02	Black Board	Seminar	
	12/12/22	Monday	II H.Sc	2	Gm	Theory	Fertilization	Lecture	02	Black Board		
	13/12/22	Tuesday	II H.Sc	4	Gm	Theory	Oogenesis	Lecture	04	Black Board		
	13/12/22	Tuesday	II H.Sc	5	Gm	Theory	Oogenesis	Lecture	04	Black Board		
	16/12/22	Friday	II H.Sc	1,2,3	Gm	Practical	Slides	Demonstration	04	Manual & Microscope		
	17/12/22	Saturday	B.Sc & H.Sc				Field visit					
	19/12/22	Monday	II H.Sc	1	Gm	Theory	Cleavage	Lecture	05	Black Board	GD	
	19/12/22	Monday	II H.Sc	2	Gm	Theory	Gastrulation (Chick, frog)	Lecture	05	Black Board	Assignment	
	20/12/22	Tuesday	II H.Sc	4	Gm	Theory	Neurulation	Lecture	03	ICT		
	20/12/22	Tuesday	II H.Sc	5	Gm	Theory	Neurulation	Lecture	03	ICT		
	22/12/22	Thursday					C.L.					
	23/12/22	Friday	II H.Sc	1,2,3	Gm	Practical	Classes are suspended due to participation of students in Youth Convention at Govt college					
	24/12/22 to 26/12/22						Eve of Christmas and Box day					
	27/12/22	Tuesday	II H.Sc	4	Gm	Theory	Specification of cell fate and cellular basis of morphogenesis	Lecture	03	Black Board		
				5	Gm	Theory	Autonomous development, Regulative development.	Lecture	03	Black Board		
	28/12/22 to 29/12/22						C.L.					
	30/12/22	Friday	II H.Sc	1,2,3	Gm	Practical	Developmental Biology - Slides	Demonstration	04	Microscope		
	02/01/23	Monday	II H.Sc	1	Gm	Theory	Mechanism of cellular differentiation	Lecture	02	ICT		
	02/01/23	Monday	II H.Sc	2	Gm	Theory	Mechanism of cellular differentiation	Lecture	02	ICT		
	03/01/23	Tuesday	II H.Sc	4	Gm	Theory	Classes are suspended due to Jaipur meeting participated of students					
				5	Gm	Theory	Jaipur meeting participated of students					
	06/01/23	Friday					C.L.					
	07/01/23	Saturday					Mid Examinations		05			
	09/01/23	Monday	II H.Sc	1	Gm	Theory	Mechanism of cellular differentiation - Endoderm (I H.Sc section)	Lecture	06	Black Board		
			II H.Sc	2	Gm	Theory	cell-cell communications	ICT	06	ICT	Assignment	
	10/01/23	Tuesday					SANKRANTHI SAMBARALU		06			

M. Kasma  
Signature of the Lecturer

A. P. Raju  
Signature of the Department In-Charge

Principal  
Signature of the Principal  
RAJAMAHENDRARAM,  
East Godavari Dist., Andhra Pradesh

# TEACHING PLAN (SYNOPSIS)

Month: December

Subject: Zoology

TOPIC: Introduction to animal development  
Fertilization.

Paper: Developmental Biology

Hours Required	04
Learning Objectives	This lesson explains animal development.
Previous Knowledge to be reminded	General fertilisation process.
Topic Synopsis	

## Introduction to animal development:

The essence of life is change. The change is more characteristically exhibited during the transformation of an apparently structureless blob of jelly into a new highly complex multicellular organism. This is known as development.

It involves three fundamental processes:

1. increase in cell numbers by cell division (cleavage)
2. The differentiation of cells into tissues (cell differentiation and tissue formation)
3. the arrangement of these cells and tissues to form parts and organs (organogenesis)

## Methods in the study of embryonic development:

1. Direct observation of living embryos.
2. Examination of Fixed Material
3. Histochemical Methods
4. Autoradiography
5. Tracing Methods
6. Microsurgical Techniques
7. Culture Techniques
8. Cellular Dissociation and Aggregation
9. Biochemical Techniques
10. Irradiation Techniques.

## Application of Developmental Biology:

1. Scientific Significance:
  1. ontogenetic development.
  2. Phylogenetic relationship
  3. Evolutionary significance.
2. Medical Significance:
  1. In malformation
  2. Malignant tumours
  3. Ageing
  4. Control of reproduction and development.

Thrust areas	
Skill to be learnt by Student	
Examples/Illustrations	
Additional Inputs	

Teaching Models used	
Teaching Aids used	Black Board
References cited	Developmental Biology (Yessierli) Zoology & H.S. Jayaram.
Student Activity planned after the teaching	Q.D., Q.E.A., Seminar
Activity planned outside classes	Assignment
Any other	-

**Fertilization:** is the penetration of a mature ovum by the spermatozoon and the subsequent fusion of the respective male and female pronuclei. The penetration of a spermatozoon into ovum activates the egg to start the development, while the fusion of their pronuclei results in restoring the diploid (2n) or potential chromosome number.

## Dual Aspect of Fertilization:

1. Activation
2. Amphimixis.

## Mechanism of fertilization:

1. Approach of spermatozoa to ova.
2. Capacitation of spermatozoa to ova and contact.
3. Acrosomal reaction and penetration.
4. Activation of ovum.
5. Amphimixis or

## Theories of Fertilization:

1. Rouvier's theory
2. Loeb's theory
3. Bimolecular theory of Activation.
4. Bataillon's theory
5. Sensitization to calcium.

## Monospermy and Polyspermy:

When fertilization is accomplished in nature or in the laboratory, myriads of sperm surround egg, yet only enters and fertilizes the egg. This is known as monospermic fertilization.

**Polyspermy:** only one sperm enters an egg but in the large yolk eggs of birds, reptiles, some amphibians and insects many sperm enter the egg.

Principal

PRINCIPAL

S.K.R. Government Degree College (Women)  
RAJAMHENDRAVARAM,  
East Godavari Dist., Andhra Pradesh

Ch. Raju  
Incharge

H. Karman  
Lecturer



**S.K.R. GOVERNMENT DEGREE COLLEGE(WOMEN)  
RAJAMAHENDRAVARAM(Estd.1968)**

(Re-Accredited at B+Grade by NAAC, Affiliated to Adikavi Nannayya University)



**CERTIFICATE OF COMPLETION**

This is to certify that..... Regd .No  
..... of SKR GOVERNMENT DEGREE COLLEGE (WOMEN),  
RAJAMAHENDRAVARAM has completed her one month CERTIFICATE COURSE on  
"VERMICOMPOST" from 20-01-2023 to 28-02-2023, organized by DEPARTMENT OF ZOOLOGY

*G. Princy*  
COURSE CO-ORDINATOR

*P. Princy*  
PRINCIPAL



**S.K.R. GOVERNMENT DEGREE COLLEGE(WOMEN)  
RAJAMAHENDRAVARAM(Estd.1968)**

(Re-Accredited at B+ Grade by NAAC, Affiliated to Adikavi Hanumanthrao University)



**DEPARTMENT OF ZOOLOGY  
III B.Sc (BZC) STUDENTS CERTIFICATE COURSE LIST  
ENROLLMENT OF STUDENTS 2022-2023**

S.No	YEAR	PROGRAMME & GROUP	HALL TICKET NO	NAME OF THE STUDENT	HOURS
1	2022-2023	III B.Sc(BZC)	200907110108	D.Smily	30 Hours
2	2022-2023	III B.Sc(BZC)	200907110109	D.Sravya Keerthi	30 Hours
3	2022-2023	III B.Sc(BZC)	200907110100	CH.Sonia	30 Hours
4	2022-2023	III B.Sc(BZC)	200907110116	J.Sharon Roja	30 Hours
5	2022-2023	III B.Sc(BZC)	200907110118	K.Lahari	30 Hours
6	2022-2023	III B.Sc(BZC)	200907110119	K.Bhavani	30 Hours
7	2022-2023	III B.Sc(BZC)	200907110121	K.Veni SriDevi	30 Hours
8	2022-2023	III B.Sc(BZC)	200907110131	M.Niharika	30 Hours
9	2022-2023	III B.Sc(BZC)	200907110130	M.Durga Srihitha	30 Hours
10	2022-2023	III B.Sc(BZC)	200907110134	M.Shyni	30 Hours
11	2022-2023	III B.Sc(BZC)	200907110145	P.Kusuma Bhargavi	30 Hours
12	2022-2023	III B.Sc(BZC)	200907110155	S.Devla Alekhya	30 Hours
13	2022-2023	III B.Sc(BZC)	200907110156	S.Merry Kumari	30 Hours
14	2022-2023	III B.Sc(BZC)	200907110157	S.Neeraja Devi	30 Hours
15	2022-2023	III B.Sc(BZC)	200907110160	S.Vandana Sai	30 Hours
16	2022-2023	III B.Sc(BZC)	200907110164	T.Sneha Bharathi	30 Hours
17	2022-2023	III B.Sc(BZC)	200907110168	V.Harika	30 Hours
18	2022-2023	III B.Sc(BZC)	200907110170	V.V.V.Anantha Lakshmi	30 Hours
19	2022-2023	III B.Sc(BZC)	200907110171	V.Amani	30 Hours
20	2022-2023	III B.Sc(BZC)	200907110173	T.Sravanthi	30 Hours

*C.H. Pranjana*  
Signature of the H.O.D

*P. R. S.*  
Signature of the Principal  
S.K.R. Government Degree College (Women)  
RAJAMAHENDRAVARAM,  
East Godavari Dist., Andhra Pradesh



## COURSE STRUCTURE

1. Theory	20hours
2. Practical	10 hours
3. Entry test	20 marks
4. Final test	50 marks
5. Practical exam	40 marks
6. Viva Voice	10 marks
7. Grading	A, B, C&D

### UNIT-I

- 1.1 Introduction of Vermicomposting -Definition, History, Present Status in India.
- 1.2 Importance and need of Vermicompost.
- 1.3 Important Earthworm species used in India for Vermicomposting.

### UNIT-II

- 2.1 Selection of site and Physical requirements for Vermicomposting.
- 2.2 Methods and materials required for Vermicomposting.
- 2.3 Harvest and Post-harvest management of Vermicompost

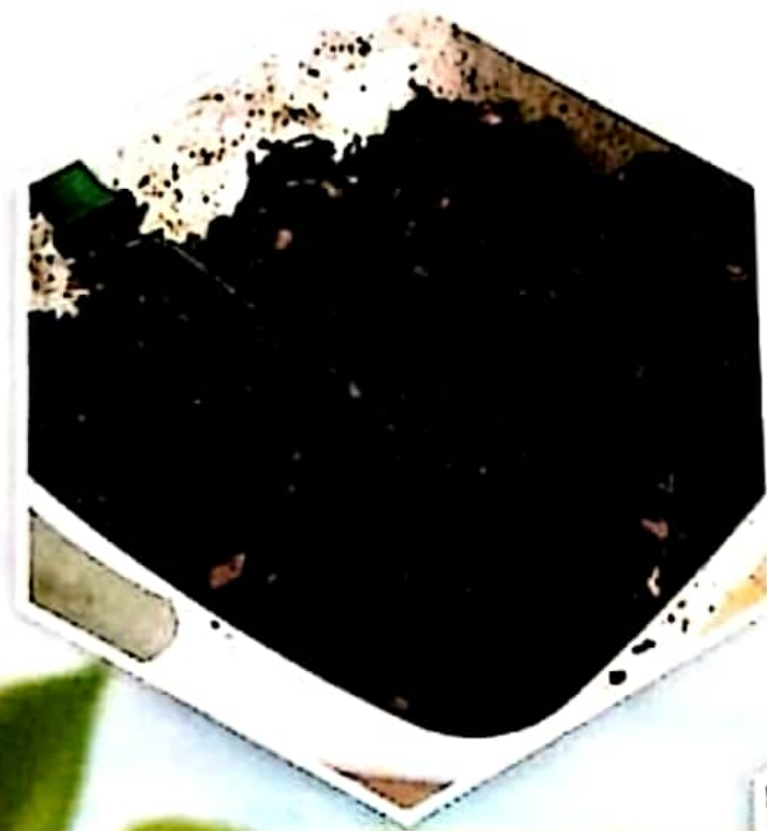
### UNIT-III

- 3.1 Large scale production of Vermicompost (Out door)
- 3.2 Small scale earthworm farming for home garden (Earthworm compost for home garden).
- 3.3 Benefits of Vermicompost- Use of Vermicompost in agriculture.

## PRACTICAL SYLLABUS

1. Identification of Important Earthworm species for Vermicomposting.
2. Estimation of soil pH.
3. Process of Vermicomposting (bins).





Vermicompost is 100% organic fertilizer, enhancing soil fertility and disease resistance with no harmful effect on plants.



## DEPARTMENT OF ZOOLOGY

### MEETING -5

A meeting was conducted in the department of zoology on 02/01/2023 at 5PM

#### AGENDA:

1. Intermediate pre final exams
2. Planning to conduct blood grouping tests for students & faculty members
3. Planning to organize Certificate course
4. Planning to visit Vermicompost unit at Nageswara nursery at Namavaram

<u>DEPARTMENT RESOLUTIONS</u>	<u>ACTION TAKEN REPORT</u>
1. It is resolved to conduct intermediate half yearly examinations	1. Intermediate half yearly exams conducted from 12/12/2022 to 17/12/2022
2. It is resolved to conduct U.G mid-I exams	2. Mid-I exams for U.G students conducted 3 <sup>rd</sup> & 4 <sup>th</sup> week of December month
3. It is resolved to students FRS has taken daily 1 <sup>st</sup> & last hours only	3. All the lecturers were instructed to take FRS attendance daily 1 <sup>st</sup> & 6 <sup>th</sup> hour

#### RESOLUTION

The department members met at 5PM and made the following

- It is resolved to conduct Intermediate prefinal examination from 30/01/2023
- It is resolved to conduct blood grouping tests for students & staff on 27/01/2023
- It is resolved to visit Vermicompost unit at Namavaram on 30/01/2023
- It is resolved to organize certificate course from 20/01/2023 to 28/02/2023

1. G. Divyapri
2. R. S. S. S. S. S.
3. H. Kalma

*G. Divyapri*  
(Signature of the H.O.D)



S.K.R. GOVERNMENT DEGREE COLLEGE(WOMEN)  
RAJAMAHENDRAVARAM(Estd.1968)

(Re-Accredited at B Grade by NAAC, Affiliated to Adikavi Hanumanthrao University)



## BRIEF REPORT

The Department of Zoology staff members met the principal madam on 03-01-2022 at 4:30PM to discuss about the certificate course on Vermicompost in the academic year of 2022-2023.

After the meeting a circular was send to the final year B.Sc CBZ students. Interested candidates submitted their names to the Zoology staff members. The staff members of the Zoology prepared theory, practical syllabus and model question papers for the certificate course. The duration of certificate course is 30 hours. This course is held from 20-01-2023 to 28-02-2023 at Zoology inter lab (4:30PM to 5:30PM).After the completion of course final theory and practical examinations conducted on 03-03-2023.

This course is useful for the students to improve their knowledge in Vermicompost.

*G. Prityank*

Signature of the H.O.D




*P. M. e*

Signature of the Principal

PRINCIPAL  
S.K.R. Government Degree College (Women)  
RAJAMAHENDRAVARAM,  
East Godavari Dist., Andhra Pradesh





 Samsung Triple Camera  
 Shot with my Galaxy A80

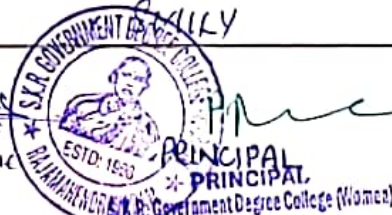
S.K.R GOVERNMENT DEGREE COLLEGE,  
 DEPARTMENT OF ZOOLOGY  
 M.Sc ZOOLOGY  
 BRIDGE COURSE  
 2022-2023

TOPIC - DEVELOPMENT OF  
 IMMUNE SYSTEM

DATE: 19/1/23

S.No	NAME OF THE STUDENT	SIGNATURE
1.	B. ALEKHIA	B. Alekhya
2.	CH. AMBIKA	Ch. Ambika
3	D.V.S.S.S LEE LAVATHI	D.V. S.S.S Leelavathi
4	G. SURYA CHAKRAM	G. Suryachakram
5	K. MANISHA	Manisha
6	SK. HASEENA BEGUM	SK. Haseena Begum.
7	S. RAMYA	S. Ramya
8	V. SUSMITHA	V. Susmitha Smil

G. Praveen  
 SIGNATURE OF  
 THE HEAD OF THE  
 DEPARTMENT



P. S. Ch. Praveen  
 SIGNATURE OF  
 LECTURER

TOPIC - Introduction to cell Biology DATE - 21/1/23



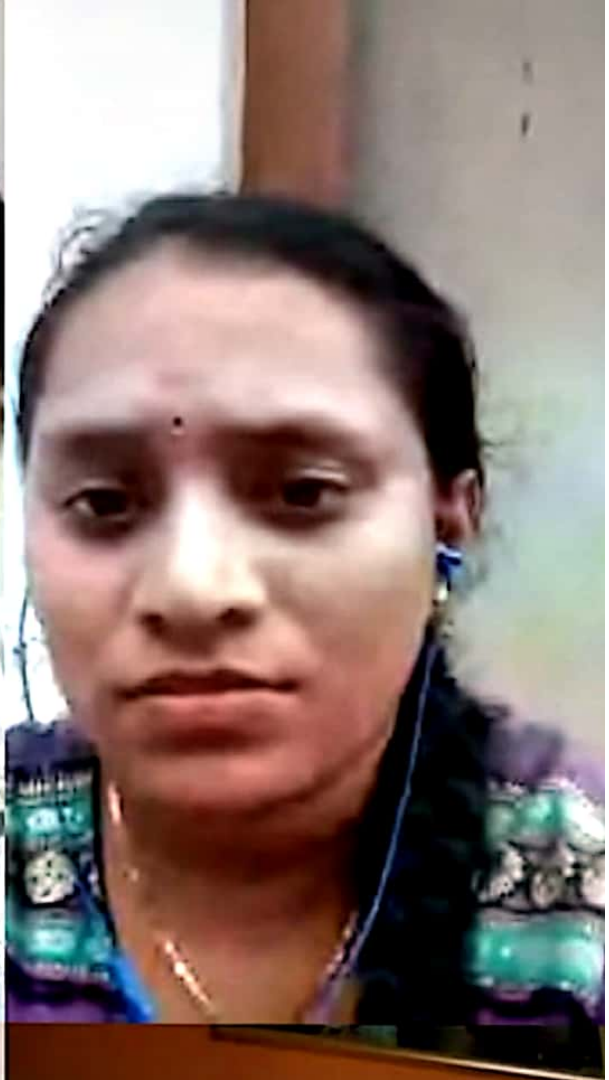
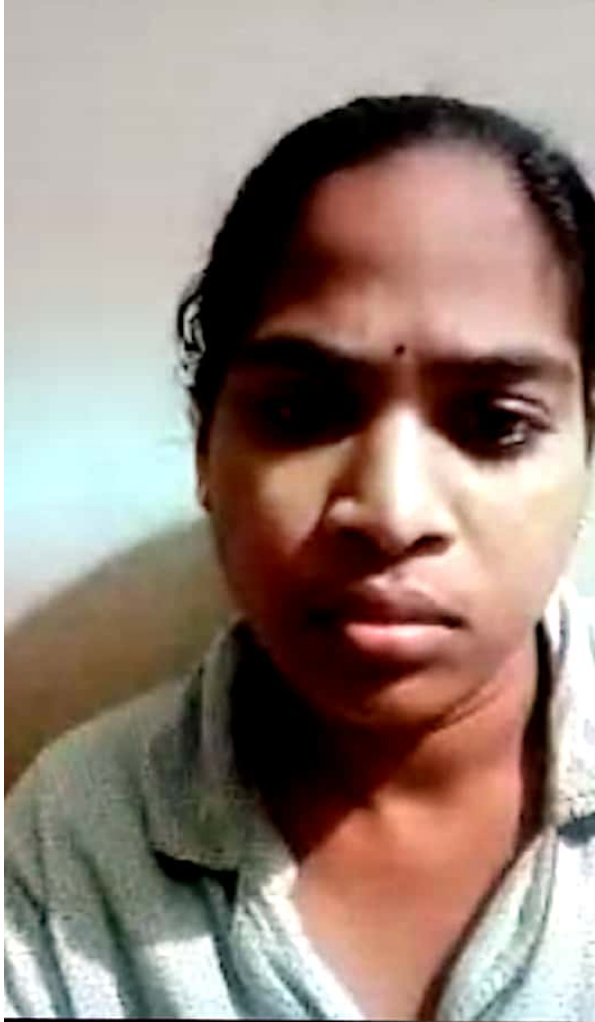
S.NO	Name of The student	STUDENT signature.
1.	B. ALEKHYA	B. Alekhya
2.	CH. AMBIKA	CH. Ambika
3.	D.V.S.S.S. LEELAVATHI	D.V.S.S.S Leelavathi
4.	G. SURYA CHAKRAM	G. suryachakram
5.	K. MANISHA	Manisha
6.	SK. NASEEMA BEGUM	SK. naseema Begum.
7.	S. RAMYA	S. Ramya
8.	V. SUSMITHA SMILY	V. Susmitha Smily

  
 SIGNATURE OF THE  
 HEAD OF THE  
 DEPARTMENT

  
 SIGNATURE OF THE  
 LECTURER

PRINCIPAL  
 PRINCIPAL  
 Government Degree College (Women)  
 RAJAMAHENDRAVARAM,  
 East Godavari Dist., Andhra Pradesh





You

Today, 4:19 pm

52% 4:44 pm

End-to-end encrypted

Camera off

Camera off

Camera off



**STUDIES ON THE NUTRITIONAL VALUE OF CHEERAMENU FISH  
FOR HUMAN HEALTH FROM GODAVARI RIVER  
East Godavari District, Andhra Pradesh.**

**East Godavari District, Andhra Pradesh.**

**Project submitted to the Department of Zoology for the practical fulfillment award**

**of Master's Degree in Zoology**

**By**

**Kotipalli Sirisha**

**Reg. No.2183638001**



**Under the Guidance of**

**Dr.P.S.CH. P. DEEPIKA RANI**

**SKR Government Degree College (w)**

**Rajamahendravaram**



## DEPERTEMENT OF ZOOLOGY

### CERTIFICATE

This is to certify that project work entitled "Dowleswaram, East Godavari District" was done by Kotipalli Sirisha with REGD NO.2183638001 during the IV semester of M.Sc, Degree in Zoology, at S K R Government Degree College for (W) Rajamahendravaram, for the partial fulfillment of M. Sc, Degree in Zoology. To the best of my knowledge this work has not been submitted anywhere for any Degree.

G. Prasad

P. Vijaya Dharma  
21/9/23

**ADIKAVI NANNAYA UNIVERSITY**  
**PG SECOND SEMESTER REGULAR EXAMINATIONS SEP - 2023**  
**AWARD LIST - THEORY (Internal Marks)**

Max Marks: 25

College Code 836 SKR DEGREE & PG WOMEN'S COLLEGE  
 Course Code 38 MSc Zoology  
 Semester 2  
 Paper Code 2213811  
 Paper Title **BIOSTATISTICS & BIO-INFORMATICS**

Date:

Register Number	Name of Student	Marks Obtained	Marks in words
2283638001	BATTU ALEKHYA	20	Twenty only
2283638002	CHIKKAM AMBIKA	19	Nineteen
2283638003	DEVARABHATLA V V S S LEELAVATHI	20	Twenty only
2283638004	GATTI SURYACHAKRAM	23	Twenty three
2283638005	KUSUMA MANISHA	23	Twenty three
2283638006	SHAIK NASEENA BEGUM	19	Nineteen
2283638007	SUDE RAMYA	21	Twenty one
2283638008	VEMULURI SUSMITHA SMILY	19	Nineteen

No. of Candidates Present : 08

No. of Candidates Absent : NIL

Signature of Examiners:

1) External: *R. Kanna*  
 2) internal: *P. S. dlp*

**M.Sc ZOOLOGY (PREVIOUS)**  
**[II - SEMESTER THEORY & PRACTICAL MARKS]**

REGISTER No.	NAME OF THE CANDIDATE	PAPER - I								PAPER - II							
		BIOSTATISTICS & BIO-INFORMATICS								ANIMAL PHYSIOLOGY				PHYSIOLOGY			
		I-MID	II-MID	AVERAGE	ASSIGNMENT	ATTEN-DANCE	SWACHHAT ACTIVITY	TOTAL	PRACTICAL	I-MID	II-MID	AVERAGE	ASSIGNMENT	ATTEN-DANCE	SWACHHAT ACTIVITY	TOTAL	PRACTICAL
10M	10M	10M	05M	05M	05M	25M	12M	10M	10M	10M	05M	05M	05M	05M	35M	12M	
228363001	B. Alekhya	07	08	08	03	04	05	20	09	08	09	09	03	04	05	21	10
002	Ch. Ambika	07	08	08	03	03	05	19	08	08	08	04	03	05	20	09	
003	D.V.V.S.S. Leelavathi	09	09	09	04	03	04	20	10	08	09	09	05	03	04	21	10
004	G. Surya Chakram	08	09	09	05	04	05	23	11	08	09	09	05	04	05	23	10
005	K. Manisha	09	09	09	05	04	05	23	11	09	09	09	05	04	05	23	11
006	Sk. Naseema Begum	07	08	08	04	03	04	19	09	07	08	08	04	03	04	19	09
007	S. Ramya	08	08	08	04	04	05	21	10	08	09	09	04	04	05	22	10
008	V. Susmita Smily	07	08	08	04	03	04	19	09	07	08	08	04	03	04	19	09

H. Kalam

H. Kalam

REGISTER No.	NAME OF THE CANDIDATE	PAPER - III								PAPER - IV							
		IMMUNOLOGY								MOLECULAR BIOLOGY				BIOLOGY			
		I-MID	II-MID	AVERAGE	ASSIGNMENT	ATTEN-DANCE	SWACHHAT ACTIVITY	TOTAL	PRACTICAL	I-MID	II-MID	AVERAGE	ASSIGNMENT	ATTEN-DANCE	SWACHHAT ACTIVITY	TOTAL	PRACTICAL
10M	10M	10M	05M	05M	05M	25M	12M	10M	10M	10M	05M	05M	05M	05M	25M	12M	
228363001	B. Alekhya	07	08	08	04	04	05	21	10	07	08	08	04	04	05	21	09
002	Ch. Ambika	07	08	08	03	03	05	19	09	07	08	08	04	03	05	20	10
003	D.V.V.S.S. Leelavathi	09	10	10	05	03	04	22	10	08	09	09	04	03	04	21	10
004	G. Surya Chakram	08	09	09	05	04	05	23	11	09	09	09	05	04	05	23	11
005	K. Manisha	09	09	09	05	04	05	23	11	09	09	09	05	04	05	23	11
006	Sk. Naseema Begum	08	09	09	04	03	04	20	09	08	09	09	04	03	04	20	09
007	S. Ramya	08	09	09	04	04	05	22	10	08	09	09	04	04	05	22	10
008	V. Susmita Smily	08	09	09	04	03	04	20	09	08	09	09	04	03	04	20	10

Signature of the Lecturer: P. S. Chp. Kalu

P. S. Chp. Kalu

H. Kalam

Signature of the H.O.D: Ch. Pranjana

Signature of the Principal:

P. A.  
 PRINCIPAL  
 S.K.M. Government Degree College (Women)  
 RAJAMAHENDRAVARAM,  
 East Godavari Dist., Andhra Pradesh



Phone:0883-2467391

## SKR GOVERNMENT DEGREE COLLEGE(WOMEN)

G.O.Ms.No.28,Higher Education Department, dated 10-08-2022

Reaccredited at B+ Grade by NAAC

Affiliated to Adikavi Nannaya University

Opp,T.T.D Kalyana Mandapam,Danavaipeta,Rajamahendravaram,E.G.Dist.,A.P

[www.skrgdewrjv.ac.in](http://www.skrgdewrjv.ac.in)

Established 1968

E-mail: skrgdewrjv@gmail.com



### DEPARTMENT OF ZOOLOGY

### ACTION PLAN FOR THE YEAR 2022-2023

S.No	Date/Month	Proposed Activities	Remarks
1	September-2022 1 Week	Preparation of annual Action Plans	Yes
	2 Week	Preparations for internship program	Yes
	3 Week 22/09/2022	Started Internship for II Year V SEM students Conduct Elocution competition on the Occasion of "Global cancer patients day"(World rose day)	Sent students to internship Conducted
	4 Week	Preparation of Annual Curricular Plan I CBZ Students remedial coaching	Yes yes
2	October-2022 1 Week	Report on activities conducted in the department	yes
	2 Week	Preparation of e-content	yes
	3 Week	Conduct Orientation program for Degree First year students	Conducted
	4 Week	Conduct of bridge course to the I Year CBZ students	Conducted
3	November-2022 1 Week	Conduct of Assignment	Conducted
	2 Week	Conduct of Quiz / Students Seminars	yes
	3 Week (19/11/2022)	Marine fishes exhibition on the occasion of " World fisheries day"	Organized
	4 Week	Guest lecture	Organized on POST HARVESTING TECHNOLOGY by K. Durga rao, Govt. A College, RVJM
4	December-2022 I Week(01/12/2022)	Preparation of slogans by students to Conduct AIDS DAY Awareness rally Field Visit to Nature study center, coninga marine museum at Diwancheruvu,Rajamahendravaram	Organized Post postponed to next week due to optional holiday. Conducted on 17/12/22.

		Diwancheruvu, Rajamahendravaram for II B.Sc CBZ students	
	II Week	I Midterm examinations III, II & I Year students	Done
	III Week)	Conduct blood grouping tests for students & faculty members in our campus	post pond to 24/1/23 Done
	IV Week (29/12/2022)	Conduct poster presentation competition for CBZ & M.Sc students on the occasion of "International Bio-diversity day"	Done
5	January-2023 I Week	Conduct of Field visit to vermicompost unit for I year CBZ students	post pond to 30-01-23 Done
	II Week	Sankranti sambaralu	Yes
	III Week	Photo album preparation in cell biology scientists by II CBZ students (28/1/2023)	Done
	IV Week	Visit to ICAR (central institute of fisheries education) at Balabhadrapuram, Kakinada for III CBZ & M.Sc students	visited on 3-02-2023.
6	February-2023 I Week ((04/02/2023)	Conduct Essay writing competition on the occasion of "World cancer day"	Done
	II Week	II Midterm examinations for III, II & I Year students Conduct zoology museum exhibition	Done Conducted
	III Week	Prepare vermi compost bins by I CBZ students	Prepared by student on 9/12/2023
	IV Week (28/02/2023)	Remedial Coaching / Students feedback/ conduct chart exhibition by CBZ & M.Sc students on the occasion of "National Science day"	Conducted Done.
7	March-2023 I Week	Conduct of study hours	Done
	II Week	Preparation of e-content (even sem)	Done
	III Week	Preparation of curricular plans for even sem	Done
	IV Week	III Year students Internship (project work)	Organised "National webinar" on 23/3/20
8	April - 2023 I Week	Students Group Discussion	Done.

	II Week	Guest lecture	postponed yes
	III Week 22/04/2023	Assignments Conduct plantation program in our campus by department of zoology staff members and students on the occasion of "Earth day"	- No -
	IV Week	Conduct of student seminars	yes
9	May - 2023 I Week	I Midterm examination for II & I Year	} Summer holidays Online classes - Done. - No -
	II Week	conduct of student Assignments	
	III Week	Conduct of student seminars	
	IV Week (31/05/2023)	Conduct of Quiz on the occasion of Anti tobacco day	
	June - 2023 I Week	Conduct of students seminars/Assignments	
10	II Week	II Midterm examinations for II & I Year (Online)	postponed to july
	III Week	Remedial Coaching / Departmental feedback	postponed to july
	IV Week	Conduct of study hours / Institutional feedback.	postponed to july
			Done

G.H. Prayank  
Signature of the H.O.D

P. M. ...  
Signature of the Principal

**PRINCIPAL**  
S.K.R. Government Degree College (Women)  
RAJANNHENDRAVARAM.  
East Godavari Dist, Andhra Pradesh

**INVITATION**

**S.K.R GOVERNMENT DEGREE COLLEGE (WOMEN), RAJAMAHENDRAVARAM**

**DEPARTMENT OF ZOOLOGY**

**FISHES EXHIBITION (LAB TO SCHOOL PROGRAMME)**

**On**

**2022-2023**



**DATE: 19/11/2022**

**TIME: 10A.M ONWARDS**

**VENUE: ZOOLOGY DEGREE LABORATORY**



## ఎస్కెఆర్ కళాశాలలో ఘనంగా ప్రపంచ మత్స్య దినోత్సవం

జన ప్రతిభవని / రాజమహేంద్రవరం

శ్రీమతి కందుకూరి రాజ్యలక్ష్మి ప్రభుత్వ మహిళా కళాశాలలో ప్రపంచ మత్స్య దినోత్సవాన్ని కళాశాల ప్రిన్సిపల్ డాక్టర్ పి.రాఘవ కుమారి గారు ప్రారంభించి విద్యార్థినిలకు ప్రపంచంలో ఉన్న మత్స్యముల యొక్క విశిష్టతను, ప్రపంచ మత్స్య దినోత్సవం యొక్క ప్రాముఖ్యతను తెలియజేశారు. ఈ ప్రదర్శనకు విచ్చేసిన ఎస్ కెవిటి గవర్నమెంట్ స్కూల్ విద్యార్థులకు కళాశాల విద్యార్థినులు మత్స్యముల యొక్క ఆర్థిక మరియు పోషక విలువలను గురించి తెలియజేశారు. ఈ కార్యక్రమంలో జంతుశాస్త్ర విభాగాధిపతి సిహెచ్ ప్రయాంక జంతుశాస్త్ర అధ్యాపకులు జి.దివ్య, డాక్టర్ దీపికారాణి, ఎమ్ కాస్మా పాల్గొన్నారు. ఈ కార్యక్రమాన్ని జంత ఘనంగా ప్రదర్శించిన జంతు శాస్త్ర విభాగాన్ని కళాశాల ప్రత్యేక అధికారి మరియు ఆరైడి డాక్టర్.సిహెచ్ కృష్ణ అభినందించారు.

G. Pranjana  
Signature of the H.O.D

P. Me  
Signature of the Principal

PRINCIPAL  
S.K.R. Government Degree College (Women)  
RAJAMAHENDRAVARAM  
East Godavari Dist., Andhra Pra





**INVITATION**

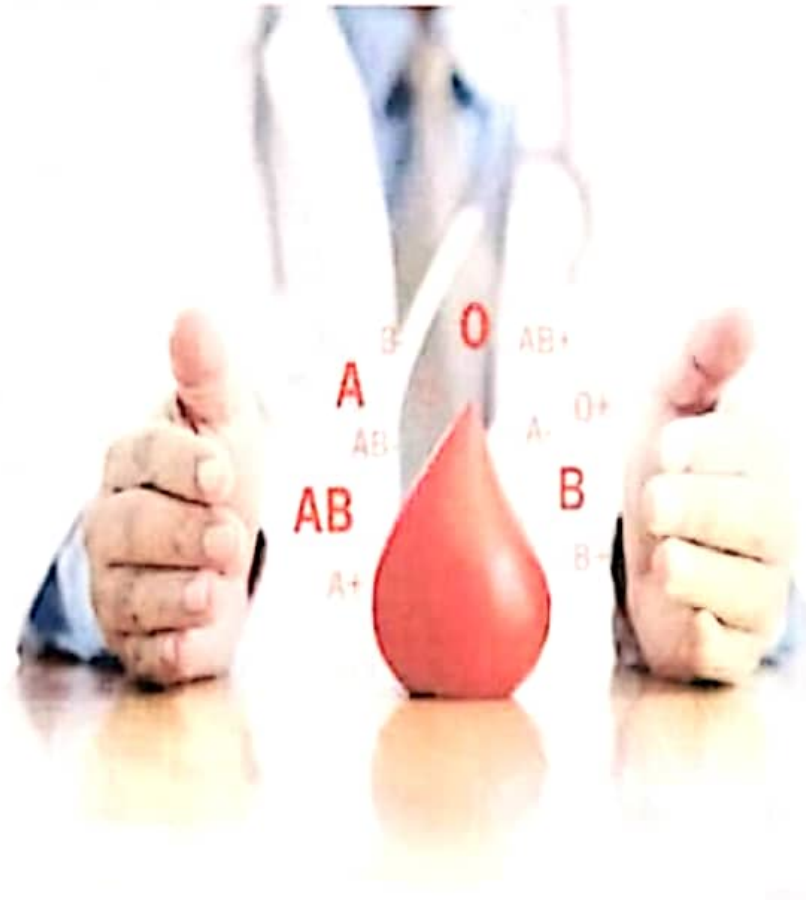
**S.K.R COLLEGE FOR WOMEN, RAJAMAHENDRAVARAM**

**DEPARTMENT OF ZOOLOGY**

**Identification of blood grouping to staff and students**

**On**

**27/01/2023**



**TIME : 10 A.M ONWARDS**

**VENUE: ZOOLOGY INTERMEDIATE LABORATORY**



BLOOD GROUPING TESTS BY STAF



శ్రీమతి కందుకూరి రాజ్యలక్ష్మి ప్రభుత్వ మహిళా డిగ్రీ కళాశాలలో రక్త వర్గ నిర్ధారణ పరీక్షలు



రాజమహేంద్రవరం: శ్రీమతి కందుకూరి రాజ్యలక్ష్మి ప్రభుత్వ మహిళా డిగ్రీ కళాశాలలో జంతు శాఖ విభాగం వారిచే రక్త వర్గ నిర్ధారణ పరీక్షలు జరిపారు. ఈ కార్యక్రమానికి ముఖ్యఅతిథిగా విచ్చేసిన కళాశాల ప్రిన్సిపాల్ డాక్టర్ పి.రాఘవకుమారి మాట్లాడుతూ వివిధ రకముల రక్త వర్గములను గూర్చి ఉదాహరణలతో వివరించారు. ఈ కార్యక్రమంలో కళాశాల విద్యార్థినులు ఆసక్తిగా పాల్గొని వారి యొక్క రక్త వర్గములను పరీక్షించుకున్నారు. ఈ కార్యక్రమంలో జంతుశాస్త్ర విభాగాధిపతి సి.హెచ్.ప్రియాంక అధ్యాపకులు జి.దివ్యశ్రీ, డాక్టర్ పి.ఎస్.హెచ్.పి దీపికారాణి, ఎమ్.కాస్మా.ఇ.విజయభారతి, ఎమ్. షారోన్ మాధురి పాల్గొన్నారు. జంతు శాస్త్ర అధ్యాపకులను విద్యార్థినులను కళాశాల ప్రత్యేక అధికారి డాక్టర్ సి.హెచ్.కృష్ణ అభినందించారు.

*C. Panyaulu*  
Signature of the H.O.D

*P. Ramesh*  
Signature of the principal  
PRINCIPAL  
S.K.R. Government Degree College (Womco)  
RAJAMAHENDRAVARAM,  
East Godavari Dist., Andhra Pradesh

