

GOVERNMENT DEGREE COLLEGE, SHANTHINAGAR

JOGULAMBA GADWAL DISTRICT, TELANGANA STATE

DEPARTMENTAL PROFILE **OF** **DEPARTMENT OF ZOOLOGY**



Presented

By

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**Asst. Professor &
Head Dept. of Zoology**



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ABOUT THE DEPARTMENT

The Government Degree College, Shanthinagar was established on 05-2-2014 through G.O.Ms no.95. based on the representations made to the government by the local representatives. The Government has sanctioned nine lecturers and five non-teaching posts to run the college. The college is affiliated to Palamuru University, Mahaboob Nagar.

The department of Zoology has started functioning since the college is started but the department regular post sanctioned in the academic year 2018-19. Main objective is to impart quality education in the field of Zoology with the help of rapidly evolving Information and Communication Technology.

At present the college offers Under Graduate Programme B.Sc. Life Science with a combination of courses Botany, Zoology, Chemistry and Botany, Zoology, Computer Science in Telugu and English media with the aim to develop core competence in Zoology and prepare the students to improve in the subject to face various competitive examinations. The department has also been working to promote the comprehensive development of the students, creating environmental awareness and to sustain the academic creativity and inventiveness. The department engages in a number of seminars, guest lectures .

As per the Almanac issued by the Palamuru University, Mahaboob Nagar and the academic Organizer(Calendar) issued by the Commissionerate of Collegiate Education, Telangana the academic schedule is prepared and followed strictly time to time. All the academic records are regularly maintained and scrutinized by the in charge of the department and are finally signed by IQAC coordinator and The Principal.

EXECUTIVE SUMMARY

Concrete view to provide quality Science Education to the students of this rural area, the department of Zoology was established during the academic year 2019-2020 with B.Sc., B.Z.C. & B.Z.Cs in both Telugu and English media. The department works to the highest standard there by enhancing the reputation of the college. Admissions in the course of Zoology from 40 during the academic year 2016-17 , 22 academic year 2017-18, 16 academic year 2018-19 19 academic year 2019-20, 22 during the academic year 2020-2021 with the efforts of staff as part of “Door to Door Admission Campaign”.

Zoology Department has conducted a good number of co-curricular activities such as Student Seminars, Assignments, Group Discussions, Extension Lectures, Science Quiz, Field Visits and Study Projects etc. to increase the participative and collaborative learning. The faculty of Zoology department is efficiently using ICT for making the teaching-learning more effective.

To provide first-hand knowledge to the students, Field Trips and Study Tours have been organized. The Department of Zoology has a digital classroom which is to import the ready information available in the internet to compete the students to use NET of facility in the part of their education for understand the for the laboratory experiments. In addition to the college library, the department also maintains a departmental library with textbooks which is ready available by the faculty Own for the utilization of students as reference books.

Apart from the regular curricular activities a good number of students also participate in co-curriculum and extracurricular activities.

The Teacher of the Department of Zoology is rendering his valuable services in various Academic, Administrative committees.

The Zoology Department has played a significant role in initiation and adoption of Best Practices Students played an important role in plantation and maintenance of the college garden as members of Eco club and Harithaharam committees.

The department has adopted best practices like maintaining a personal library and organising free health camps like Hemoglobin checkup camps by local Doctors.

Vision:

- To impart quality education in the field of Zoology by updating knowledge using latest teaching techniques
- To inculcate highest values of life, respect for nature
- To sensitize human society for animal welfare, conservation and protection
- To transform the students into self-reliant and mold them as socially responsible citizens

Mission:

- **Adoption** - By adopting student-centric and outcome based learning methods by holding the with ICT tools to equip the students with required knowledge and skills
- **Awareness** - By conducting various programs on importance of nature and natural activities the department strives to prepare the students as responsible manpower in animal sciences and the same to propagate among the society
- **Visiting & Practising** - Sensitizing the students for animal welfare, protection and conservation by organizing field visits and adopting certain practices for their self-employment in future.
- **Offering**-The department will endeavor to introduce Certificate Courses in future to equip the students with skills required to get employment opportunities to mold them into self-reliant individuals

STRENGTHS, OPPORTUNITIES

Strengths:

- ❖ Well qualified teacher with rich and varied experience in teaching.
- ❖ Digital Classroom for ICT teaching.
- ❖ Well ventilated and spacious classrooms.
- ❖ Considerably good strength of students.

Opportunities:

- ❖ There is a lot of potential to increase the admissions in the coming days.
 - ❖ More Certificate and Value Added Courses can also be introduced in future.
- ❖ New combinations of job oriented and skill development science courses can be introduced

BASIC INFORMATION

The department is located with good cross ventilation.

Programs and courses offered:

Programs offered: B.Sc. Life Science

Courses Offered:

B.Sc. (B.Z.C). T/M, E/M & B.Sc. (B.Z.CA) T/M, E/M for Academic year 2019-2020

B.Sc. (B.Z.C). T/M , E/M from 2020 - 2021

Sanctioned strength: 60 in each section

Duration: CBCS System (Six Semesters)

Eligibility Criteria at Entry Level: For admission into B. Sc. B.Z.C. the candidate should have passed Bi.P.C/ MLT/ or any other equivalent qualification, with life science as one of the subjects at Intermediate level

TEACHER'S PERSONAL PROFILE

1	Name in Full	Dr.D.V.Siva Narayana
2	Designation	Asst. Prof. of Zoology
3	Father's Name	Sri.D.Narasaiah
4	Date of Birth	18/07/1967
5	Qualifications	M.Sc. (Zoology), M.Ed., Ph.D
6	Teaching Experience	12 yrs at Junior College Level & 9 yrs at UG level
7	Books Published	Nil

8	Research Papers	Studies on ichthyofaunal diversity of Krishna River in Mahabubnagar district, Telangana, India
9	Computer Skills	MS Office
10	e- mail	dasarisivanarayana163@gmail.com
11	Orientation Course	Attended Orientation Course at UGC, HRDC- JNTUH
12	Refresher course-1:	Completed R.C, Summer School at UGC, HRDC-
13	Short term Trainings, seminar & conferences attended	1. Attended International Conference (3 Day) from 20-01-2020 to 22-01-2020 on Material science for Societal advancement at UGC, UPE FAR Program, O.U. Hyderabad
14	Extension Service:	Acting as academic coordinator Convener for Internal Complaints Committee Convener for Green Audit Committee Convener for Staff Council and as a member in many other committees IQAC co-ordinator in GDC shanthinagar. Attended as a Subject Expert for recruitment of guest faculty at Telangana

APPENDIX - II

DEPARTMENTAL TIME-TABLE (2019-20)

SYLLABUS UNDER CHOICE BASED CREDIT SYSTEM

DAY	I	II	III	L U N C H	IV	V	VI
	10:00 to 11:00 a.m.	11:00 to 12:00 noon	12:00 to 1:00 p.m.		1:30 p.m. to 2:30 p.m.	2:30 p.m. to 3:30 p.m.	3:30 p.m. to 4:30 p.m.
MONDAY	ZOOLOGY III YR		ZOOLOGY I				
TUESDAY		ZOOLOGY III	ZOOLOGY II		ZOOLOGY PRACTICALS II YR		
WEDNESDAY	ZOOLOGY I		ZOOLOGY II		ZOOLOGY PRACTICALS III		
THURSDAY	ZOOLOGY I	ZOOLOGY III				ZOOLOGY II	
FRIDAY	ZOOLOGY II				ZOOLOGY I PRACTICALS		
SATURDAY		ZOOLOGY II	ZOOLOGY I				

S.No	Paper	Paper Code	Paper Title	Credits
1	I	435	Animal Diversity- Invertebrates	4+1
2	II	533	Animal Diversity- Vertebrates	4+1
3	III	641	Animal Physiology & Animal Behavior	4+1
4	IV	642	Cell Biology, Genetics & Developmental Biology	4+1
5	V	675	Immunology and Animal Biotechnology	4+1
6	VI	676	Ecology, Zoogeography and Evolution	4+1

WORK LOAD

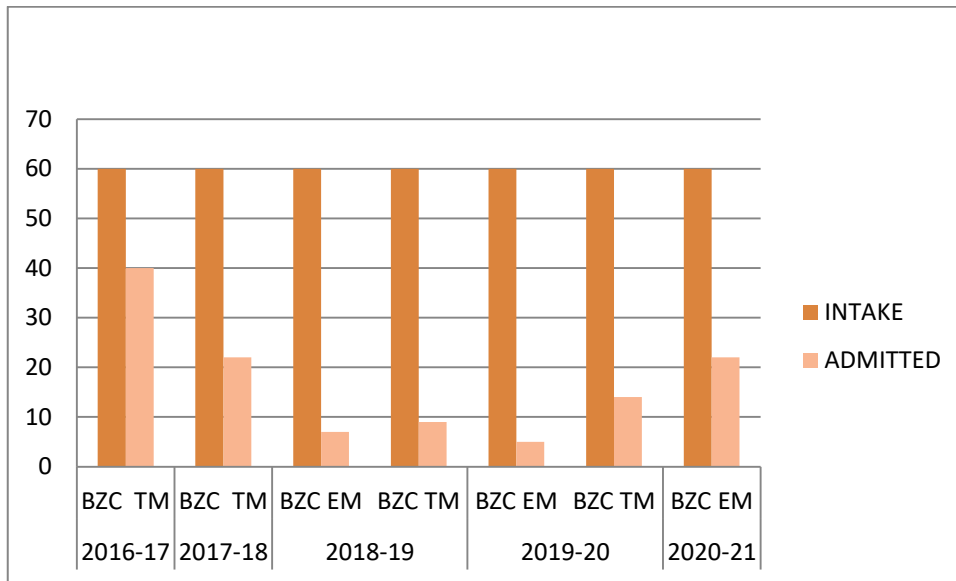
S.No	Course & Year	Workload Of Practical Classes: No. of Batches X No. of Classes per week @ 2hrs each	Workload of Theory Classes in Hrs per week	Internal subjects	TOTAL
1	BZC –I Yr.	3	4	1	8
2	BZC –II Yr.	3	4	1	8
3	B.Z.C III Yr.	3	4	1	8
TOTAL		9	12	3	24

Total workload / week = 24

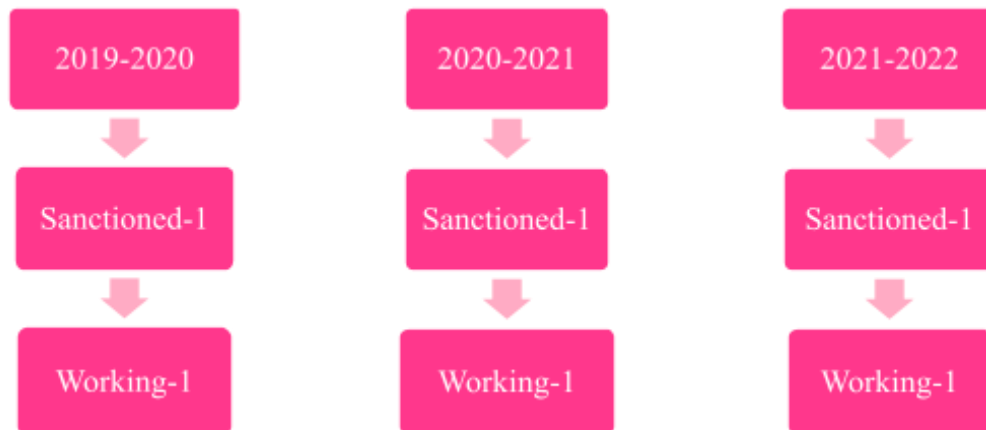
Academic Information

Academic Year	Name of the Programme	Duration in Years	Medium of Instruction	Sanctioned Strength	No. of Students Admitted	Total
2016-2017	B.Sc. B.Z.C.	3 Years (6 Semesters)	Telugu	60	40	40
2017-2018	B.Sc. B.Z.C.	3 Years (6 Semesters)	Telugu	60	22	22
2018-2019	B.Sc. B.Z.C.	3 Years (6 Semesters)	Telugu	60	9	9
2018-2019	B.Sc. B.Z.C.	3 Years (6 Semesters)	English	60	7	7
2019-2020	B.Sc. Life Science (BZC)	3 Years (6 Semesters)	Telugu	60	5	19
	B.Sc. Life Science (BZC)	3 Years (6 Semesters)	English	60	14	
2020-2021	B.Sc. Life Science (BZC)	3 Years (6 Semesters)	English	60	22	22

Analysis of Sanctioned Strength - Admissions



No. of teachers working against sanctioned posts in department of Zoology from 2019- 2021



Details of qualification of teaching faculty

Academic Year	Name of the Teaching Faculty	Qualification	Designation	Experience
2018-19 to till date	Dr.D.V.Siva Narayana	M. Sc.,M.Ed.,Ph.D Qualified	Asst. Professor	9 yrs

EXTENDED PROFILE

Program: B.Sc. Life Science

Number of students year wise

2015-16	2016-17	2017-2018	2018-19	2019-20	2020-21	2021-22
14	40	22	16	19	22	24

Student particulars category wise for the year 2016-17 to 2020-21
Academic Year 2016-2017

Group	Medium	Boys	Girls	SC	ST	BC	BCE	OC	Minority	Total
I BZC	T/M	11	29	12	0	28	0	0	0	40
II BZC	T/M	5	0	0	0	5	0	0	0	5
III BZC	T/M	9	8	5	0	12	0	0	0	17

Academic Year 2017-2018

Group	Medium	Boys	Girls	SC	ST	BC	BCE	OC	Minority	Total
I BZC	T/M	9	13	4	0	16	0	2	0	23
II BZC	T/M	6	26	9	0	23	0	0	0	32
III BZC	T/M	9	6	2	0	13	0	0	0	15

Academic Year 2018-2019

Group	Medium	Boys	Girls	SC	ST	BC	BCE	OC	Minority	Total
I BZC	T/M	9	13	4	0	16	0	2	0	25
II BZC	T/M	6	26	9	0	23	0	0	0	32
III BZC	T/M	8	14	4	0	16	0	1	1	22

Academic Year 2019-2020

Group	Medium	Boys	Girls	SC	ST	BC	BCE	OC	Minority	Total
I BZC	T/M	2	13	3	0	12	0	0	0	15
	E/M	2	5	2	0	4	0	1	0	07
II BZC	T/M	4	16	5	0	18	0	0	0	23
III BZC	T/M	9	13	4	0	16	0	2	0	23

Academic Year 2020-2021

Group	Medium	Boys	Girls	SC	ST	BC	BCE	OC	Minority	Total
I BZC	T/M	4	18	4	0	16	0	2	0	22
II BZC	T/M	6	16	4	0	18	0	0	0	22
III BZC	T/M	4	19	0	0	2	0	0	0	23

CRITERION WISE ANALYSIS OF THE ZOOLOGY DEPARTMENT

CRITERION : I - CURRICULAR ASPECTS

Curricular planning and Implementation:

The College is affiliated to Palamuru University, Mahaboob Nagar and the curriculum for the B.Sc. Courses is prescribed by the Board of Studies, Department of Zoology of the University. The curriculum planning and implementation work is undertaken in a planned way. The Curriculum is being implemented according to the Almanac provided by the Affiliated University and Academic Calendar issued by the Commissioner of Collegiate Education, Hyderabad, Telangana. The In-charge of the Department reviews the status of the completion of syllabus and monitors the conduct of other co-curricular activities such as Remedial classes, Student Seminars, Quiz Competitions, Assignments, Group Discussions and Internal Exams etc. The faculty is encouraged to adopt modern technology to make the teaching- learning process more effective. The Department also organizes various programs related to academics such as Field Trips, Educational Tours etc.

As the Govt. of Telangana introduced Common Core Syllabus for all Universities from Academic Year 2019-20, students are offered One paper in each semester from I to VI Semesters. In addition, Skill Enhancement papers are offered in III & IV semesters. Students are offered to choose a Generic Elective paper in V semester and a Project work in VI semester which were newly introduced as part of the new curriculum

Academic Flexibility:

The Government of Telangana has introduced Choice Based Credit System in the state as per the guidelines given by the UGC in all universities including the Palamuru University to which this college is affiliated from the academic year 2016-17. There are two groups of elective papers for B.Sc., B.Z.C. final year both in English and Telugu mediums.

Curriculum Enrichment

According to the suggestions and guidelines of the Telangana State Council of Higher Education (TSCHE), the Affiliating University i.e., Palamuru University, revises the curriculum from time to time to suit the industry requirements. The Department in line with College focuses on effective implementation.

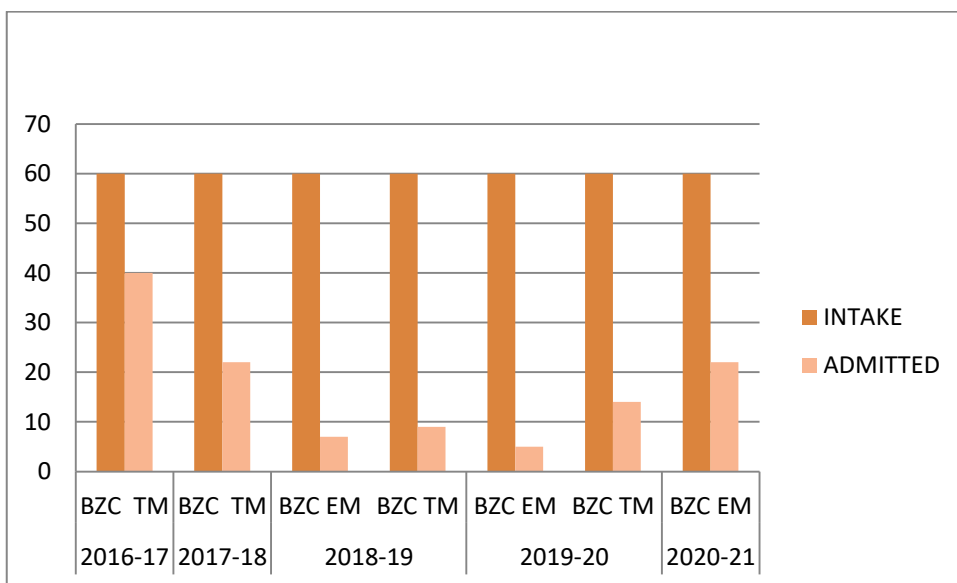
Besides core courses, the Department also implements the Skill Enhancement Courses such as Environmental Science, Gender Sensitization, Communication Skills in English and Basic Computer Skills, and Generic Electives such as Public Health and Hygiene and Water Resource Management etc. Human Values and professional Ethics Course was implemented till the academic year 2016-17.

The department actively participates in the programmes related to enrichment of curriculum such as awareness programmes on gender sensitization through Women Empowerment Cell and ICC, environmental sustainability through eco club , eco friendly activities by NSS unit.

CRITERION: II - TEACHING, LEARNING AND EVALUATION

Number of sanctioned seats and admitted year wise

Year & Course	2019-2020		2020-2021		2021-2022	
	Intake	Admitted	Intake	Admitted	Intake	Admitted
B.Sc. Life Science T/M	60	14	0	-	0	-
B.Sc. Life Science E/M	60	5	60	22	60	24
Total	120	19	60	22	60	24



Catering to Student Diversity:

The Department of Zoology takes every measure possible to understand the needs and requirements of the students before the commencement of the program. Students are counseled at the time of admission and an orientation program is organized in which students are familiarized with the course, mode of internal assessment as well as facilities available in the college.

Teachers before beginning their courses informally get the pulse of the students in the class, their knowledge about the course and their comfort level with English as a medium of instruction. Teachers during class interaction identify students' potential and then devise strategies to reduce the gap in the knowledge and skills. Identified slow learners are provided intense attention. Assignments and slip tests are conducted to understand their progress. Advanced students are encouraged to aim high and provided competitive books. Slow learners are identified and are given remedial coaching to help them to reach the curricular plan. Faculty pays close attention through the mentor mentee system to understand their problems and counsel them.

Student - Full time teacher ratio**Ratio of students to full time teachers**

Academic Year	Students, full time teacher Ratio
2016-2017	26:1
2017-2018	18:1
2018-2019	12:1
2019-2020	21:1
2020-2021	24:1

Teaching Learning Process

Teaching learning process at the department has been changed from teacher centered to student centric after introduction of the CBCS. The experiential and participative learning are the effective and active modes of learning which are being adopted enormously by the Department of Zoology. Teaching learning activities are made effective through illustrations, visits to other institutes, field and educational tours, seminars and talks by experts are organized every year. Students are given individual projects and class assignments, focusing on self-study and independent learning. They are also assigned group projects and activities which promote peer learning and team building. Classroom discussions, debates, seminars, quiz programmes, presentations by students, brainstorming activities, creating mind maps facilitate participative learning.

Extension activities, skill oriented training are provided to ensure experiential learning for students. The faculty and students efficiently use ICT methodologies like PPT, YouTube Channel and online videos for teaching learning to optimize learning experience. ICT tools such as ZOOM, Google Meet are used for online teaching, T-Sat Nipuna classes are being engaged.

The following innovative and creative Teaching-Learning techniques have been adopted:

- Sharing the subject and competitive information in the 'WhatsApp' group.
- Prepares the subject PPTs in an effective manner and teaches on smart interactive boards to create more interest in learning among students.
- To inculcate critical thinking, problem solving and research bent, students were encouraged to undertake Study Projects as part of JIGNASA program

Details of Guest Lectures:

The Department of Zoology conducts Guest Lectures on latest topics in Zoology by inviting eminent Lecturers from other colleges.

S.No.	Date	Topic	No. of students involved	Name & Designation of the Resource Person
1	06-12-2016	Harmones as chemical changer	32	Dr.D.V.Siva Narayana Associate Professor MALD, Govt. Degree College, Gadwal, Mahaboob Nagar
2	27-02-2017	Vermicompost Production	27	B.Yella swamy GDC women Gadwal
3	05-01-2018	Energy flow in ecosystem	23	Venkateswaramma, Lecturer in zoology MALD, Govt. Degree College, Gadwal,
4	22-2-2019	Vermicompost production	25	Venkateswaramma, Lecturer in zoology MALD, Govt. Degree College, Gadwal,
5	4-1-2020	Pila nervous system	18	Ravinder Rao , GDC Jadcharla





Remedial Coaching:

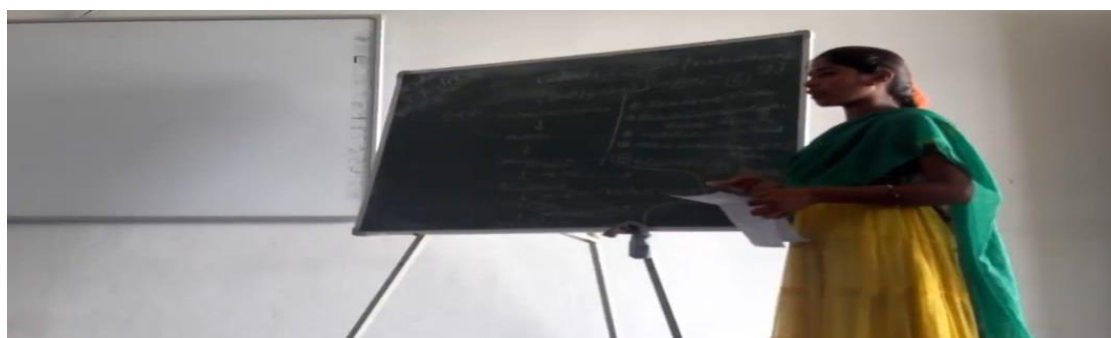
Remedial classes are engaged every year to the academically slow learners to support them. These students are given extra coaching in various subjects and topics to improve their academic performance.

Details of Remedial Coaching

S. No.	Name of the teacher	No. of students taken Remedial coaching
		2019-2020
1	Dr.D.V.Siva Narayana	6

Student Seminars

Zoology department has conducted a good number of student seminars in various topics to enhance the knowledge, skills and encourage participatory learning





Details of Student Seminars

S.No	Name of the student	Group, Medium & Semester	Date	Topic	Teaching aids used
1	B.Shilpa	Sem-1	22-08-2019	Diseases caused by Protozoan parasites	Blackboard and PPT
2	Shakuntala	Sem-1	11-09-2019	Locomotion in Protozoa	Blackboard and PPT
3	Mahesh	Sem-I	06-11-2019	Water vascular System	Blackboard, chalks
4	V.Lavanya	Sem-II	06-02-2020	Balanoglossus	Blackboard and PPT

ICT enabled tools for teaching learning process

Modern teaching tools such as, Smart Boards, YouTube Channels and T-SAT recorded videos presentations are widely being used. Interestingly, the teacher is effectively using the ICT based teaching methods with the help of PPTs, online videos. Online Platforms such as ZOOM, Google Meet are being used for online teaching, conducting etc.

The following innovative and creative Teaching-Learning techniques have been adopted:

- Subject teacher shares the subject and competitive information in the 'WhatsApp' group.
- The subject teacher prepares the subject PPTs in an effective manner and teaches on smart interactive boards to create more interest in learning among students.
- For better understanding of the subject concepts group discussions and debates are organized among the students.
- To inculcate critical thinking, problem solving and research best students were encouraged to undertake Study Projects as part of JIGNASA program
- Dept. of Zoology takes part in celebration of 'Science Day' and Science Quiz competitions conducted by involving the large number of students to acquaint themselves with the Science subjects.

Details of ICT Classes

S.No.	Date	Semester	Topic	ICT tool used
1	23-01-2018	Sem II	Retrogressive Metamorphosis in Herdmania	PPT
2	03-02-2019	Sem II	Cyclostomes	Online video and pictures downloaded from Internet as charts
3	11-10-2019	Sem II	Central Nervous System of frog	PPT and Online Video
4	12-12-2019	Sem II	Parental Care in Amphibia	Video
5	14-01-2020	Sem II	Temporal fossa in Reptiles	PPT
		Sem II	Migration in Birds	Online Video

Teaching through PowerPoint Presentation

Details of Group Discussions

Promoting positive Peer Support & Building Leadership qualities

S.No.	Date	Semester	Topic
1	05-09-2019	Sem-I	Diseases of Protozoan parasites
2	04-02-2020	Sem-II	Cyclostomes
3	02-03-2021	Sem-III	Animal behaviour & Biological clocks

Details of Science Quizzes conducted

S.No.	Date	Topic	No.of teams/students participated
1	07-08-2019	General Zoology	3 teams-12 students
2	21-02-2020	Diseases caused by microorganisms	3 teams-12 students
3	29-10-2021	CoronaVirus Disease	3 teams-9 students

Encouraging Competitive Spirit through Quiz Competitions

Ratio of students to mentor (For Academic and Stress related activities)

Academic Year	Ratio of mentees to mentor
2016-2017	38:1
2017-2018	34:1
2018-2019	25:1
2019-2020	22:1
2020-2021	19:1

Teacher Profile and Quality

There is only one teaching post sanctioned and filled with a regular faculty.

The particulars of the present faculty:

The department has one regular faculty as per the existing State Government guidelines. The staff member is actively engaged in academics. She is experienced with adequate efficiency, maintains accurate academic plan and imparting teaching to students as per the academic schedule. The department of zoology has the best faculty in respect of teachers who are the catalysts for the next generation.

Percentage of full time teachers against sanctioned posts in the department: 100%

Academic Year	Name of the Teaching Faculty	Qualification	Designation	Experience in the same institution
2018-19 to till date	Dr.D.V.Siva Narayana	M. Sc., M.Ed.,Ph.D	Assistant Professor	3 years 8 months

Evaluation Process and Reforms

The department conducts two Internal Assessments, two assignments for each semester and University semester final examination. The subject wise marks registers are maintained both for Internal Examinations and University examinations separately. Practice tests and assignments are conducted as per the lesson plan. Internal Examination carries 20 marks and the semester final examination 80 marks.

Grievances from the students regarding Internal examinations are brought to the notice of the principal and resolved. In case of University examinations if the student is not satisfied with the marks they can apply for revaluation under the guidance of examination coordinator and administrative staff.

Participation of teachers in evaluation duties:

The teacher of the department is extensively involving in examination duties like External examiner for Zoology practical examinations, invigilation, observers for Palamuru University.

Reforms in evaluation process:

Introduction of Semester System (CBCS): The examination system for evaluating the students' performance has been changed from existing year-wise examination to semester wise examination for continuous evaluation of the students since 2016-17 onwards. Moreover, the credit system has replaced the existing awarding of marks system. The Palamuru University to which this college is affiliated, has introduced the new CBCS syllabus, specially designed for semester system, from the academic year 2016- 17.

Student Performance and learning Outcomes

The attributes of opting the course are elucidated with the first year students at the commencement of the program. Curriculum and learning outcomes of the course are made available with the department and the students are also involved to discuss the things for the fulfillment of course outcomes.

POs, PSOs and COs of B. Sc. (BZC):

Programme Outcomes:

- Have deeper understanding of laws of Nature, Flora and Fauna
- Handle experimental set ups with care and caution
- Employ rational thinking regarding environmental issues and sustainable food chain

Programme Specific Outcomes:

- Gain knowledge through theory and practical
- Understand laboratory practices and safety in handling
- Know about various endocrine glands, functioning of various body parts, various diseases, causing agents and its care and cure.
- Students can find placement in pharma industry, research institutes and medical fields

Zoology Course Outcomes:

Deep understanding about Invertebrates - Classification, Nomenclature - Protozoa, Porifera, Cnidaria, Platyhelminthes, Nematelminthes, Annelida, Arthropoda, Mollusca, Echinodermata - Characters, Classification, Study of Ecology, Zoogeography and Animal Behaviour - Population Dynamics, Climatic and Faunal peculiarities, types of Behavior, Animal Physiology, Genetics, Evolution, Immunology and Biotechnology- Antibodies, antigens, stem cells and applications

Average Pass percentage of the students

The percentage of university results in the subject concerned is maintained. The department discusses the review of results and proper steps will be taken for the improvement of academic performance of the students.

Semester wise pass percentage of University Exams

A.Y.	Programme & Medium	Semester	Paper	Appeared	Passed	Percentage
2016-2017	B.Sc. Life Science	I	I	39	30	76%
		I	II	34	23	67%
			ii	4	4	100%
			III	16	11	68%
			IV	16	14	87%
2017-2018	B.Sc.Life Science T/M	I	I	19	14	73%
	B.Sc.Life Science E/M					
	B.Sc.Life Science T/M	II	II	17	16	94%
	B.Sc.Life Science E/M			30	28	93%
	B.Sc.Life Science T/M	IV	IV	27	25	92%
			III	2	2	100%
	IV	2	2	100%		

A.Y.	Programme & Medium	Semester	Paper	Appeared	Passed	Percentage
2018-2019	B.Sc. Life Science	I	I	5	4	80%
		II	II	6	6	100%
			ii	4	4	100%
		II	III	12	11	91%
			IV	10	10	100%
			Paper V	26	24	92%
			VI	26	26	100%
			VII	23	23	100%
			VIII	21	21	100%
2019-2020	B.Sc.Life Science T/M	I	I	5	3	60%
	B.Sc.Life Science E/M			14	13	92%
	B.Sc.Life Science T/M	II	II	5	5	100%
	B.Sc.Life Science E/M			14	12	85%
	B.Sc.Life Science T/M	IV	IV	6	6	100%
				11	6	54%
			III	18	18	100%
			IV	18	18	100%

2020-2021	B.Sc.Life Science T/M	I	I	20	14	70%
	B.Sc.Life Science E/M			19	14	73%
	B.Sc.Life Science T/M	II	II	5	5	100%
	B.Sc.Life Science E/M			14	13	92%
	B.Sc.Life Science T/M	IV	IV	5	5	100%
				13	13	100%
			III	11	9	81%
			IV	5	5	100%

CRITERION: III- RESEARCH, INNOVATION AND EXTENSION

The Department always encourages the students to undertake study projects as a part of their regular activities to inculcate a research bent of mind in the students and to develop innovative outlook and creativity.

Keeping this in view, the Commissioner of Collegiate Education, Hyderabad introduced 'JIGNASA – Students Study Projects' program in the year 2016-17 which to encourage research projects.

- The department of Zoology organizes and participates in various extension activities to sensitize the students to various social issues and to strengthen their participation in community development.
- Participation in COVID-19 vaccination camp-2021
- Organised and participated in government initiated programmes like Swach Bharath, Telangana Ku Harithaharam, AIDS awareness rally and the program initiated by the college NSS unit regarding road safety, Eco-friendly activities

Taking part in COVID Vaccination



A Free camp for testing Haemoglobin for girl students and women staff

(An activity for Women Empowerment)





Plantation Programme



Celebration of Floral festival of Telangana-Bathukamma

Swachh Bharat



Telangana Ku Haritha Haram

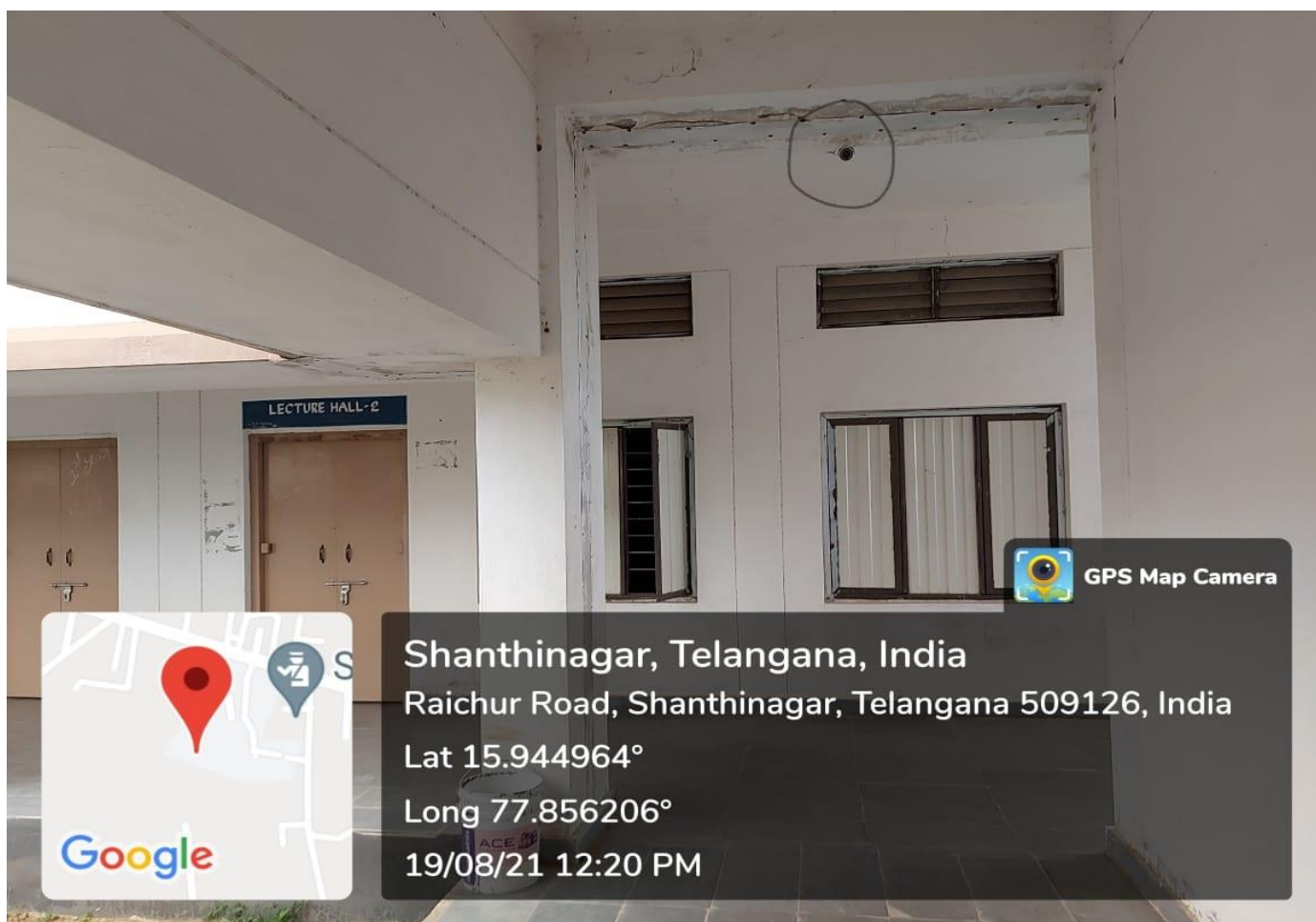


CRITERION: IV- INFRASTRUCTURE AND LEARNING RESOURCES**Physical facilities****Spacious class rooms:**

The department is located on the ground floor of the college building. It has one spacious and fully ventilated classroom with proper electrification, lights and fans, LCD projector, dual desks etc.

Digital classroom:

The CCE has sanctioned Digital Classroom to the Zoology Department in the year 2019. A Smart-board projector and computer system with speakers is installed in the room . It is expected that the students will learn the advanced topics with the help of audio-visual mode of teaching. Students' seminars are being conducted in this room so that the students can show their talent by creating curiosity.

IT Infrastructure and Maintenance of college facilities**CCTV Camera Surveillance**

ment is provided with a CC Camera installed in the corridor to enhance the protection from untoward incidents

Departmental library:

The Faculty of the department of Zoology has been maintaining a separate library with 15 books of various kinds like Textbooks, Reference books, Study material and others for circulation among the students.

Laboratory Equipment:

The department has one laboratory which is equipped with basic facilities. The laboratory can accommodate 25 students at a time. The department has only a very few instruments. Recently the requisition proposal has been sent to the Commissionerate of Collegiate Education to provide lab



equipment.

Facilities for Cultural activities Sport and Games:

- The department encourages the students to participate in extracurricular activities such as cultural activities, sports and games.
- The college has a spacious playground for outdoor games.
- As a part of Yuvatharagam, a programme initiated by the Commissionerate of Collegiate education, the college organises various competitions every year.



INFRASTRUCTURE AND LEARNING RESOURCES

The department has following Infrastructure and Learning Resources:

- One Spacious class room
- Digital board - 1

- Desktop Computer - 1

Departmental Library - 15 books (Personal Book Bank of various Textbooks, Reference books, Competitive examination Material & Study Material etc.) Apart from the text books and reference books, magazines the question papers of previous exams, study material are kept in the departmental library

Stock Registers for Laboratory Equipment - 5

- Register for Breakages
- Register for Chemicals
- Register for Non Consumables

Laboratory Equipment available

- Student Microscope - 3
- Conical Flasks - 20
- Measuring jars -3
- Beakers - 10
- Permanent Specimens - 23
- Permanent Slides - 17

CRITERION: V- STUDENT SUPPORT AND PROGRESSION

Student Support

Number of Students Benefited by Scholarships provided by the Government

Students Benefited by Scholarships provided by the Government

Alumni Engagement

The college has an alumni association which is a registered body actively functioning for the overall development of the institution.

CRITERION-6: GOVERNANCE, LEADERSHIP AND MANAGEMENT

Institutional vision and Leadership

The Staff and students of the department of Zoology strive hard with heart and soul to fulfill the vision and mission of the college.

Vision

- To impart quality education in Zoology using latest teaching techniques
- To inculcate values of life, respect for nature
- To sensitize for animal welfare & conservation
- To transform the students into self-reliant and socially responsible citizens

Mission

The department strives to focus its efforts to realize its vision through the following mission statements:

- Adopting the student-centric and outcome based learning methods coupled with ICT to
- equip the students with required knowledge and skills
- Awareness of the students about nature and natural activities to transform them as responsible manpower in animal sciences, teaching and research
- To sensitize human society for animal welfare, conservation and protection.
- Offering Certificate Courses in future to equip the students with skills required to get employment opportunities.

Additional Responsibilities (2019-2020)

S.No.	Committee	Responsibility
1	Administration	Vice-Principal
2	Academics	IQAC coordinator
3	Special fee Committee	member
4	NSS Advisory Committee	Member
5	Harithaharam Committee	Member
6	Swachh Bharat	Member

Performance Appraisal of Teaching staff

The IQAC appraises the performance of the teaching staff by adopting two methods such as Feedback System and elf Appraisal Forms (API)

Feedback System: The performance of the teacher is assessed based on the feedback received from the students. The feedback is collected annually through a structured questionnaire across various teaching quality parameters and analyzed to assess the performance and to take necessary steps to plug the loopholes if any.

The feedback from the students, peers and principal is also collected and analysed for sending the proposals for the best teacher award under the Yuvatarangam program organised by the CCE, Hyderabad.

CRITERION:VII- INSTITUTIONAL VALUES AND BEST PRACTICES

Participation in Gender Equality Programmes:

The faculty of Zoology organizes various awareness programs pertaining to women Health and hygiene. Through the ward counseling system girl students are given special interest and care.

The Department of Zoology participate in Gender Sensitivity and Gender Equity through participate to celebrate various facilities and programs

- Health camp for haemoglobin testing

Waste Management Techniques:

The staff and students of the department of Zoology adopt the Waste Management Techniques introduced by the college for reducing pollution and improving resource efficiency. Methods such as separate disposal of solid wastes, Wastewater management, it's utilization for the college garden etc.

Water Conservation facilities:

The faculty and the students of the department of Zoology actively take part in managing the waste water and the rain water in the college premises.

Green Campus Initiatives:

The faculty and the students of the Department of Zoology play a significant role in maintenance of the college garden. Every year as a part of Telangana Ku Haritha Haram(TKHH) program initiated by the Government of Telangana. Under the Eco club and TKHH committees the students and the staff participate in plantation programmes every year. A garden of fruit plants and medicinal plants are being maintained separately.



Celebration of National, International commemorative days, events and festivals:

Students and staff participate in the national festivals like Independence Day, Republic Day, Birth and death anniversaries of great personalities Mahatma Gandhi, Ambedkar etc, organised by the institution every year. Students enthusiastically participate in the celebration of National Science Day, Teachers Day, National youth Day etc.



Best Practices:

- **Organizing a free medical camps** - Haemoglobin testing for girl students and women staff to detect Anemia every year and suggesting nutritious food- planning to provide wheat grass by cultivating in collaboration with department of Botany.
-

Future plan for the next five years:

- The department will strive hard to improve the admissions in the upcoming academic years
- Students will be encouraged to undertake more study projects in order to give first hand exposure
- Department will contemplate to arrange more number of extension lectures on latest and current topics related to Zoology
- Department will forge to have linkages with Industries and Academia.
- To organize blood donation camp
- The Department will endeavor to introduce Certificate Courses in future to equip the students with skills required to get employment opportunities.
- More students will be encouraged and motivated to progress to higher education by providing the coaching.