



**DISTRICT MANCHERIAL, TELANGANA STATE**

**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, Bellampally was established on 11-12-1987 through G.O.Ms no. 309 based on the representations made to the government by the local representatives. The Government has sanctioned one Principal, eight lecturers and seven non teaching posts to run the college. The college is affiliated to Kakatiya University, Warangal.

### **Commencement of Science courses:**

2008-2009, GORT No. 846 & 58, Rc. No. 439/ Admn 1-1/2008

The department of Zoology has started functioning since the academic year 2019-2020 with the reestablishment of science courses. 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 exams. 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 and faculty development programmes. Currently the department is headed by Smt. P. Sree Latha.

As per the Almanac issued by the Kakatiya University, Warangal and the academic Organizer issued by the Commissionerate of Collegiate Education, Telangana the academic schedule is prepared and followed strictly. All the academic records are regularly maintained and scrutinized by the in charge of the department.

## **EXECUTIVE SUMMARY**

With a view to provide quality Science Education to the students of this region, the department of Zoology was established during the academic year 2019-2020 with B.Sc., B.Z.C.& B.Z.CA in both Telugu and English media. The department works to the highest standard thereby enhancing the reputation of the college.

Well experienced teacher is presently working.

Admissions surged in the course of Zoology from 64 during the academic year 2019-20 to 94 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, Elocution, Essay Writing, 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 spacious digital classroom which is partitioned for the laboratory .

In addition to the college library, the department also maintains a departmental library with textbooks and reference books.

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

- Durgam Meghana, the student of B.Z.CA bagged the second prize in Yuvatharangam Cluster Level in Essay writing competition held at Adilabad 2019-2020 - AIDS
- Jadi Mamatha of Iyr B.Sc. B.Z.C. student bagged Santoor Merit scholarship in the academic year 2020-2021

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

The Zoology Department has played a significant role in initiation and adoption of Best Practices such as making eco-friendly clay Ganesh idols and preparation of natural colours organized by the NSS unit of the college. 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 dental and Haemoglobin camp.

**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 mould them as socially responsible citizens

**Mission:**

- **Adoption** - By adopting student-centric and outcome based learning methods coupled 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 organising field visits and adopting certain practices for protection
- **Offering**-The department will endeavor to introduce Certificate Courses in future to equip the students with skills required to get employment opportunities to mould them into self-reliant individuals

## STRENGTHS, WEAKNESSES, OPPORTUNITIES & CHALLENGES

### Strengths:

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

### Weaknesses:

- ❖ Less number of Teachers than required.
- ❖ Non-availability of adequate infrastructure to accommodate the laboratory separately
- ❖ Lack of attached hostels for boys and girls

### Opportunities:

- ❖ There is a lot of potential to increase the admissions in the coming days.
- ❖ P.G course i.e., M.Sc., can be introduced to cater to demand of students.
- ❖ 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

### Challenges:

- ❖ Tough competition from private colleges which are indulging in unfair practices during admission process
- ❖ Distant location of the college building from the TSRTC bus stand.
- ❖ Heavy workload

## BASIC INFORMATION

The department is located in room no. 6 on the ground floor 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 & B.Sc. (B.Z.CS) E/M from 2020 - 2021

**Sanctioned strength:** 60 in each section

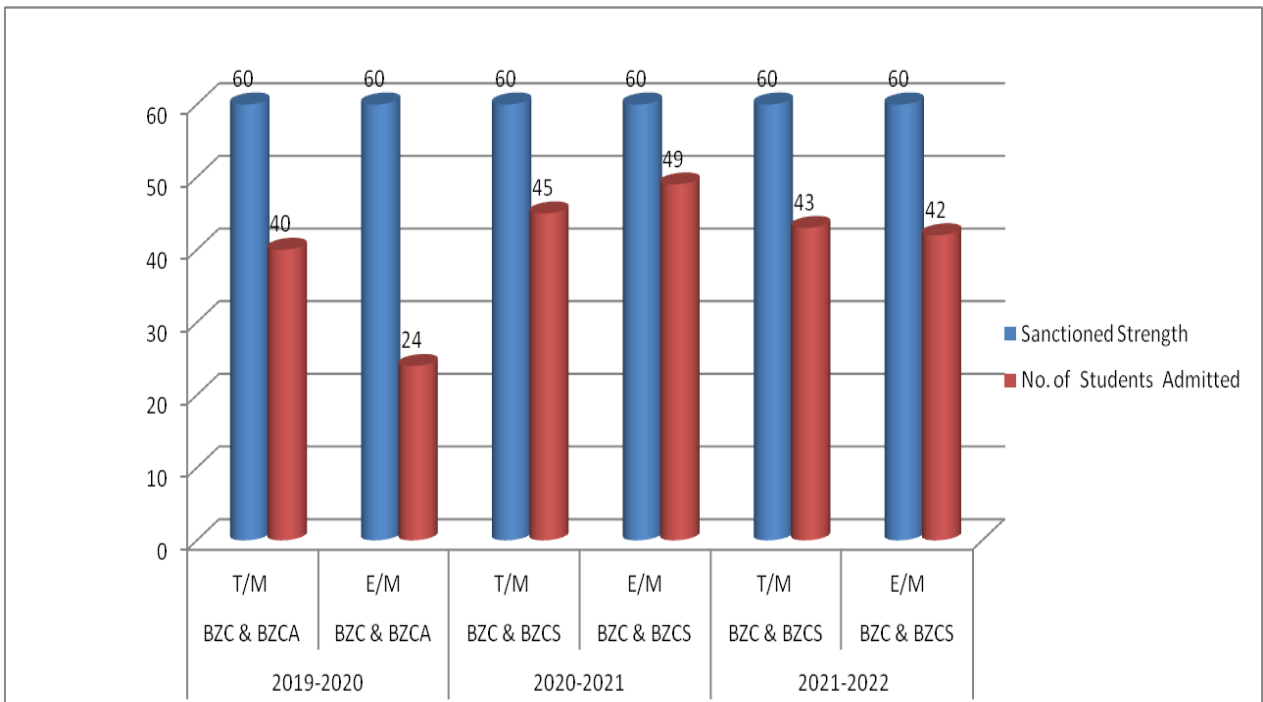
**Duration:** CBCS System (Six Semesters)

**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

**Academic Information**

Academic Year	Name of the Programme	Duration in Years	Medium of Instruction	Sanctioned Strength	No. of Students Admitted	Total
2015-2016	B.Sc. B.Z.C.	3 Years ( 6 Semesters)	Telugu	60	0	0
2016-2017	B.Sc. B.Z.C.	3 Years ( 6 Semesters)	Telugu	60	02	2
2017-2018	B.Sc. B.Z.C.	3 Years ( 6 Semesters)	Telugu	60	0	0
2018-2019	B.Sc. B.Z.C.	3 Years ( 6 Semesters)	Telugu	60	0	0
2019-2020	B.Sc. Life Science (BZC&BZCA)	3 Years ( 6 Semesters)	Telugu	60	39	64
	B.Sc. Life Science (BZC&BZCA)	3 Years ( 6 Semesters)	English	60	25(22+3)	
2020-2021	B.Sc. Life Science (BZC&BZCA)	3 Years ( 6 Semesters)	Telugu	60	(43+2)45	94
	B.Sc. Life Science (BZC&BZCS)	3 Years ( 6 Semesters)	English	60	(36+13)49	
2021-2022	B.Sc. Life Science (BZC&BZCS)	3 Years ( 6 Semesters)	Telugu	60	43(38+5)	85
	B.Sc. Life Science (BZC &BZCS)	3 Years ( 6 Semesters)	English	60	42 (40+2)	

**Analysis of Sanctioned Strength - Admissions from 2019-20 to 2021-22**



**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	P.Sree Latha	M. Sc., B.Ed.,NET Qualified	Asst. Professor	11 yrs

**Non Teaching Faculty:**

No. of Non Teaching posts sanctioned: Nil

No. of Non Teaching faculty working: Nil

**Technical faculty:**

No. of Technical posts sanctioned: Nil

No. of Technical faculty working: Nil

**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
5	2	2	2	65	139	197



## Number of seats earmarked for Reserved Category (2019-20)

S.No.	Program	Medium	Sanctioned Strength	No. of seats earmarked for the reserved categories				
				SC	ST	OBC	General	Others
				15%	6%	29%	45.5%	4.5%
1	B.Sc (BZC)	T/M	60	09	04	17	27	03
2	B.Sc (BZC)	E/M	60	09	04	17	27	03
2	B.Sc (BZCA)							
4	B.Sc (BCCA)							
Total				<b>18</b>	<b>08</b>	<b>34</b>	<b>54</b>	<b>06</b>

## Number of Outgoing students year wise

2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
5	0	0	1	1	0	39

## Teachers

## Number of full time teachers

2018-19	2018-19	2019-20	2020-21	2021-22
0	01	01	01	01

## Number of sanctioned posts

2018-19	2019-20	2020-21	2021-22
01	01	01	01

## CRITERION WISE ANALYSIS OF THE ZOOLOGY DEPARTMENT

### CRITERION : I - CURRICULAR ASPECTS

#### Curricular planning and Implementation:

The College is affiliated to Kakatiya university, Warangal 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.

Students were taught One paper in each semester from I to IV semesters and Two papers in each semester in V & VI semesters until the Academic Year 2018-19. 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 Kakatiya 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.

#### Add on / Certificate Courses

S.No.	Title of the course	No. of students participated
1	Mehndi designing course	30

**Mehndi Designing - Skill Development Certificate Course****Curriculum Enrichment**

According to the suggestions and guidelines of the Telangana State Council of Higher Education (TSCHE), the Affiliating University i.e., Kakatiya 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.

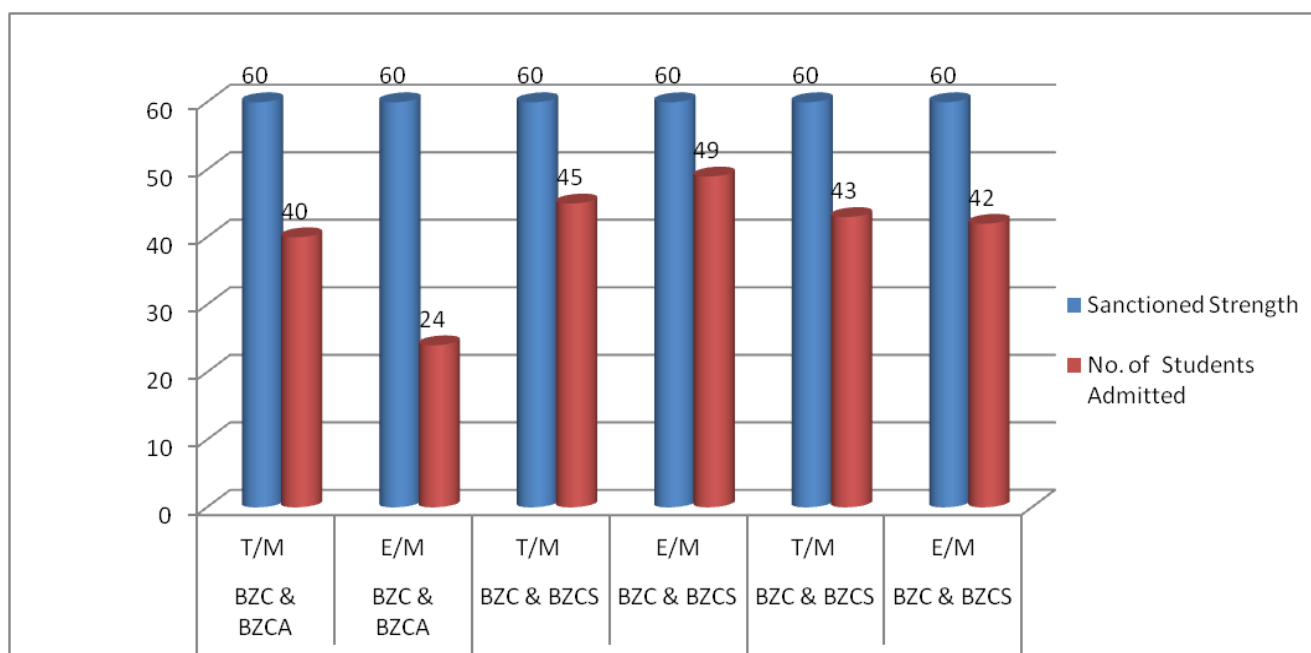
**Feedback system**

The department collects feedback on curriculum from different stakeholders like students, teachers etc., analyses the feedback and keeps it for communication to the affiliated university.

**CRITERION: II - TEACHING, LEARNING AND EVALUATION**

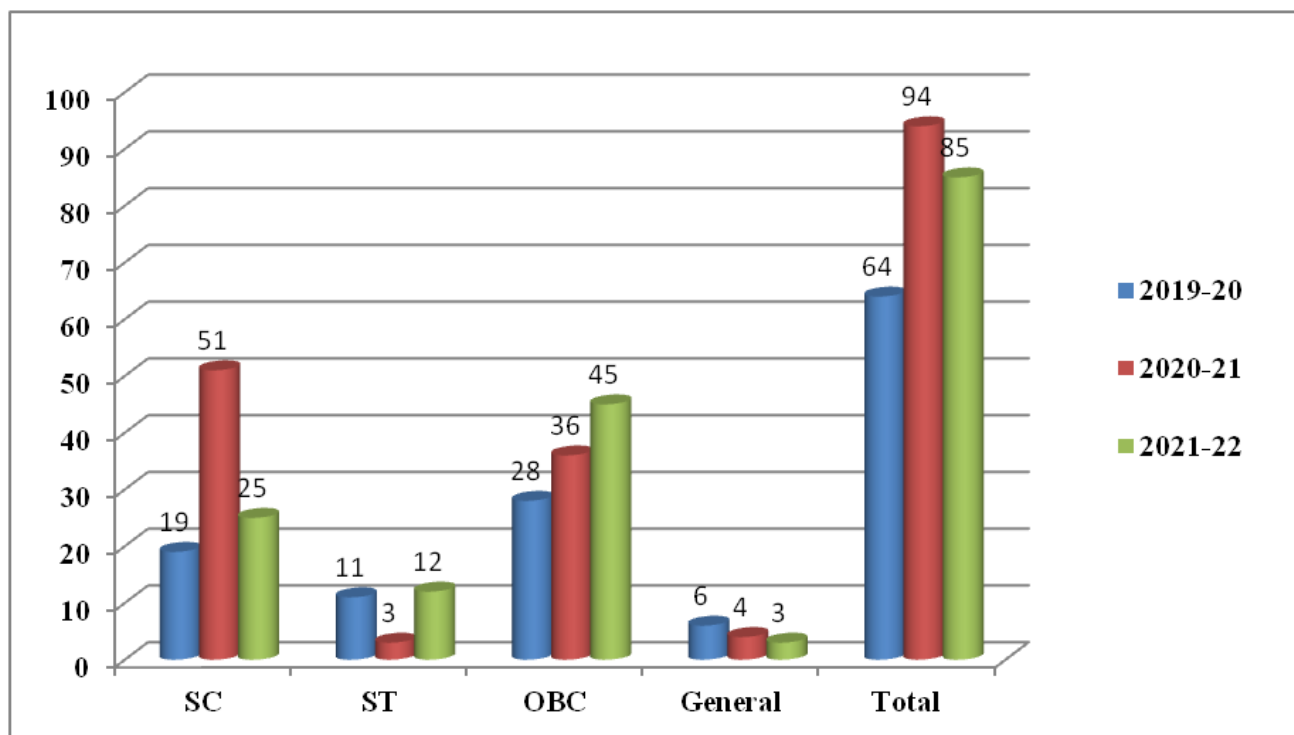
Number of sanctioned seats and admitted year wise

Year & Course	2019-2020		2020-2021		2021-2022	
	Intake	Admitted	Intake	Admitted	Intake	Admitted
B.Sc. Life Science T/M	60	39	60	45	60	42
B.Sc. Life Science E/M	60	25	60	49	60	42
<b>Total</b>	<b>120</b>	<b>64</b>	<b>120</b>	<b>94</b>	<b>120</b>	<b>85</b>



Students admitted from the Reserved Categories

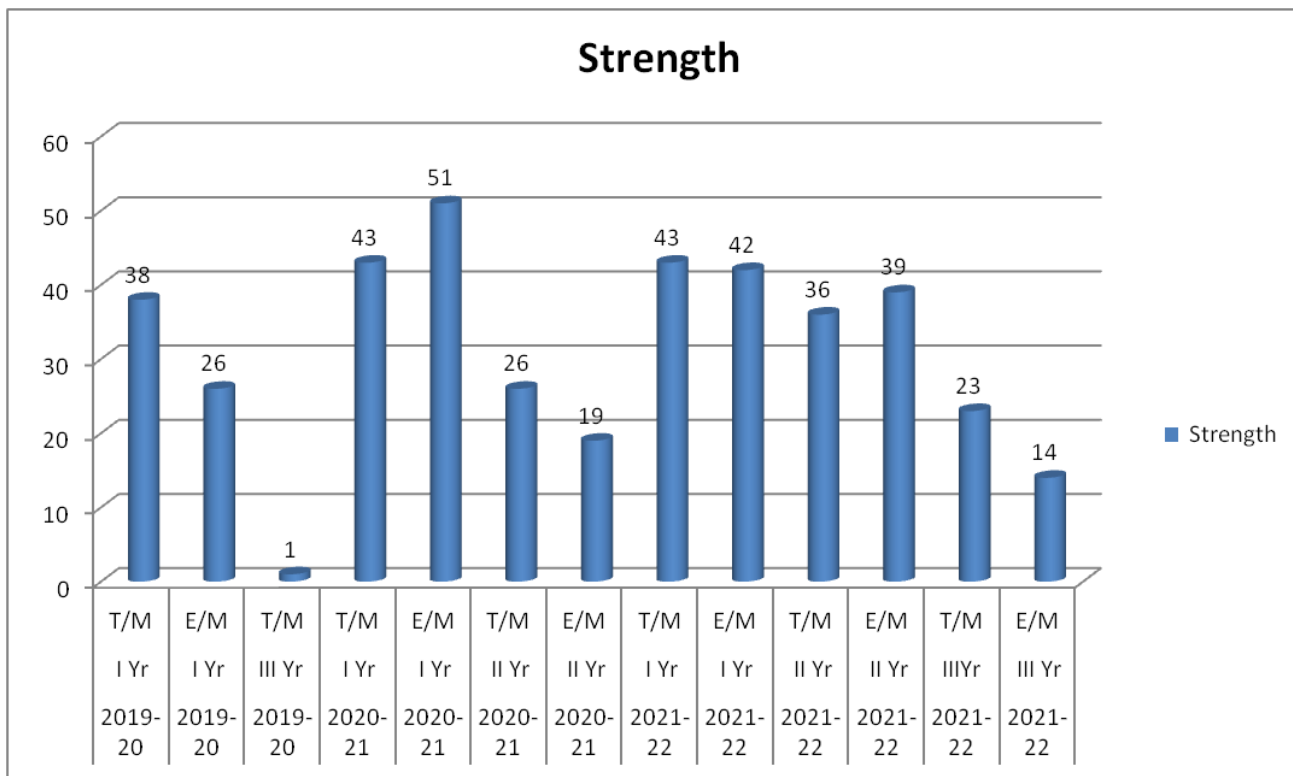
Category	SC		ST		OBC		General		Total		Grand Total
	M	W	M	W	M	W	M	W	M	W	
2015-16	1	4	0	0	0	0	0	0	1	4	5
2016-17	0	0	0	0	0	2	0	0	0	0	2
2017-18	0	0	0	0	0	0	0	0	0	0	0
2018-19	0	0	0	0	0	0	0	0	0	0	0
2019-20	06	13	04	07	10	18	00	06	20	44	64
2020-21	13	38	02	01	10	26	01	03	26	68	94
2021-22	04	21	05	07	13	32	01	02	23	62	85
<b>Total</b>	<b>24</b>	<b>76</b>	<b>11</b>	<b>15</b>	<b>33</b>	<b>78</b>	<b>02</b>	<b>11</b>	<b>70</b>	<b>180</b>	<b>250</b>



Students admitted from the Reserved Categories - Analysis (2019-20 to 2021-22)

## Students strength particulars: 2019 - 2020 to 2021 - 2022

S.No	A.Y	Programme & Yr	Medium	Men	Women	Total	Yearwise Total	Grand Total
1	2019-2020	B.Sc. Life Science I year	T/M	10	28	38	64	65
			E/M	10	16	26		
		B.Sc. Life Science II year	T/M	0	0	0	0	
		B.Sc. Life Science III year	T/M	0	1	1	1	
2	2020-2021	B.Sc. Life Science I Year	T/M	13	30	43	94	139
			E/M	13	38	51		
		B.Sc. Life Science II year	T/M	4	22	26	45	
			E/M	1	18	19		
		B.Sc. Life Science III year	T/M	0	0	0	0	
3	2021-2022	B.Sc. Life Science I Year	T/M	16	27	43	85	197
			E/M	08	34	42		
		B.Sc. Life Science II year	T/M	12	24	36	75	
			E/M	9	30	39		
		B.Sc. Life Science III year	T/M	4	19	23	37	
			E/M	5	9	14		



**Student Strength Analysis ( 2019-20 to 2021-22)**

**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
2018-2019	2:1
2019-2020	64:1
2020-2021	139:1
2021-2022	197:1

### Teaching Learning Process

Teaching learning process at the department has been changed from teacher centred 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, conducting Webinars and online Quiz programs. T-Sat Nipuna classes are being engaged. The department organizes workshops to encourage learning by doing.

#### 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.
- For better understanding of the subject concepts group discussions and debates are organized among the students.
- To inculcate critical thinking, problem solving and research bent, students were encouraged to undertake Study Projects as part of JIGNASA program



### Study Tours and Field Trips

The Department has arranged Study Tours and Field Visits to various departments to enhance experiential learning

#### Details of Field Trips organised

S.No.	Date	Place of visit	No. of students involved	Name & Designation of the Resource Person
1	30-01-2020	Krishi Vigyana Kendra Bellampally	20	Dr. Rajeshwar Kumar Naik Program Coordinator KVK, Bellampally Mahesh Kumar RA, Fisheries
2	27-10-2021	Gandhari Vanam Deer Rehabilitation Center, Mancherial	24	P.Sree Latha Asst. Professor



**Details of Guest Lectures:**

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

<b>S.No.</b>	<b>Date</b>	<b>Topic</b>	<b>No. of students involved</b>	<b>Name &amp; Designation of the Resource Person</b>
1	06-12-2019	Energy Dynamics in an Ecosystem (Energy Flow)	30	Ch. Narayana Reddy Associate Professor Govt. Degree College, Chennur, Mancherial
2	27-02-2021	Vermicompost Production	25	Dr. I. Thirupathi, Scientist (Crop Production), KVK, Bellampally
3	05-06-2021	Importance of Environment in relation to Agriculture (Online)	32	Dr. Shivakrishna Kota Scientist (Agricultural Extension), KVK, Bellampally

Remaining Meeting Time: 06:53

## WHAT IS AN ECOSYSTEM?

An ecosystem is a community of living organisms interacting with each other and their non-living environment.

What makes up an ecosystem?

- All living things (plants, animals, and bacteria)
- Non living things (the sun, rocks, and soil)

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GREEN

Nagelli Laxman

SaiTheja

kampelli ramargju

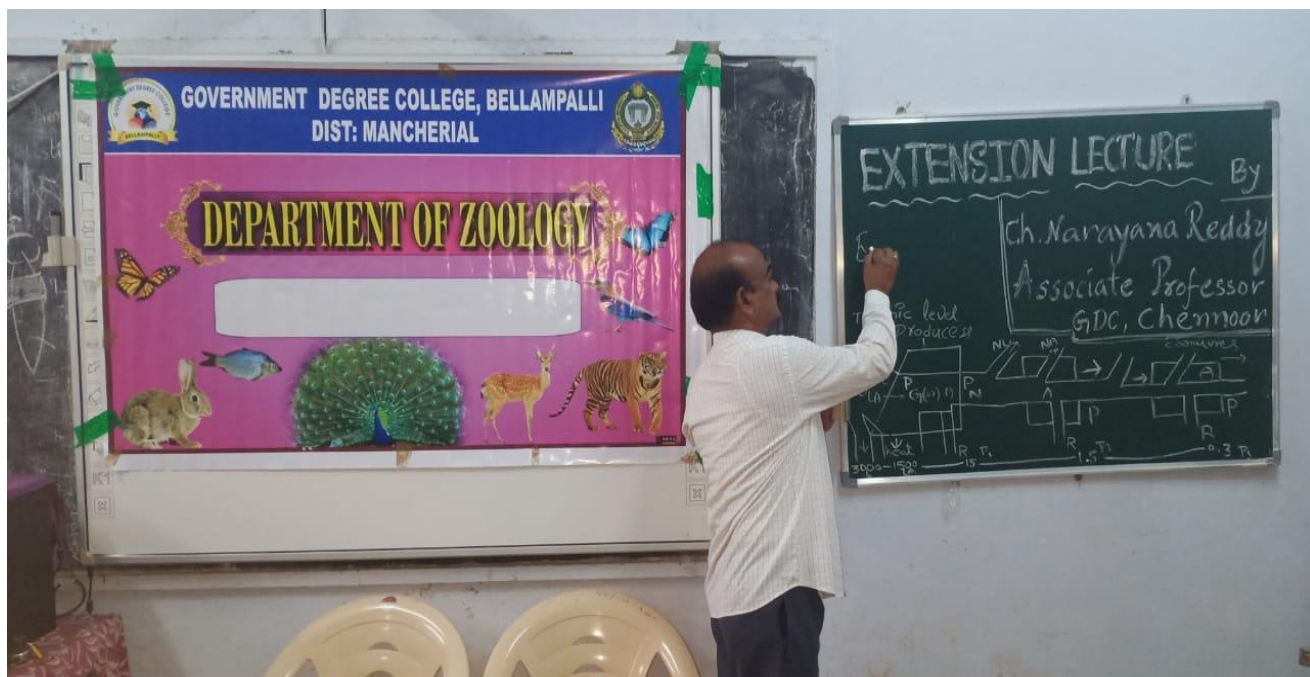
Made Kalpana

DELL

**Guest Lecture by Dr. Shivakrishna Kota, Scientist KVK, Bellampally on 05-06-2021**



Guest Lecture by Dr. I. Thirupathi, Scientist KVK, Bellampally on 27-02-2021



Guest Lecture by Sri Ch. Narayana Reddy, Associate Professor, Govt. Degree College, Chennai, Mancherial District on 06-12-2019

**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	P.Sree Latha	18

**Student Study Projects**

S.No.	Title of the Project	Name of the Supervisor	Submitted by
1	A study project on anaemic condition of women of GDC, Bellampally in relation to Socio-Economic status (Completed in 2021-2022)	Smt. P. SreeLatha	Sk Shabana Azmin P. Srivani P. Prathyusha G. Nirikshana M. Sai Sahaj

**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	G.Gamya	Sem-1	22-08-2019	Diseases caused by Protozoan parasites	Blackboard and PPT
2	P.Jayanthi	Sem-1	11-09-2019	Locomotion in Protozoa	Blackboard and PPT
3	D. Pravallika	Sem-I	06-11-2019	Water vascular System	Blackboard, chalks
4	A.Krishnaveni	Sem-II	06-02-2020	Balanoglossus	Blackboard and PPT
5	E.Maheshwari	Sem-II	06-02-2020	Affinities of Balanoglossus	Blackboard, chalks
6	D.Meghana	Sem-II	06-02-2020	Retrogressive metamorphosis	Blackboard and PPT
7	M.Chandrakala	Sem-II	12-03-2020	Scoliodon Arterial System	Blackboard and PPT
8	R.Saisuma	Sem-II	12-03-2020	Parental Care in Amphibia	Blackboard, chalks
9	B.Sandhya Rani	Sem-II	14-03-2020	Exoskeleton in Fishes	Blackboard and PPT
10	D.Pravallika	Sem-III	18-02-2021	Structure of Skeletal Muscle	Blackboard, chalks
11	P.Jayanthi	Sem-III	18-02-2021	Nerve cell, nerve impulse	Blackboard, chalks
12	D.Saikrishna	Sem-III	22-02-2021	Thyroid and Parathyroid glands	Blackboard, chalks
13	P.Srivani	Sem-I	22-02-2021	Schistosoma haematobium	Blackboard, chalks
14	P.Prathyusha	Sem-I	01-03-2021	Water Vascular System	Blackboard, chalks
15	G.Srilekha	Sem-I	01-03-2021	Elphidium Life Cycle	Blackboard, chalks
16	S.Vaishnavi	Sem-I	28-10-2021	Locomotion	Blackboard, chalks
17	B.Shirisha	Sem-I	28-10-2021	Canal System	Blackboard, chalks



**ICT enabled tools for teaching learning process**

Modern teaching tools such as LCD Projectors, Smart Boards, YouTube Channels and T-SAT live 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 Webinars and Online Quiz programmes 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

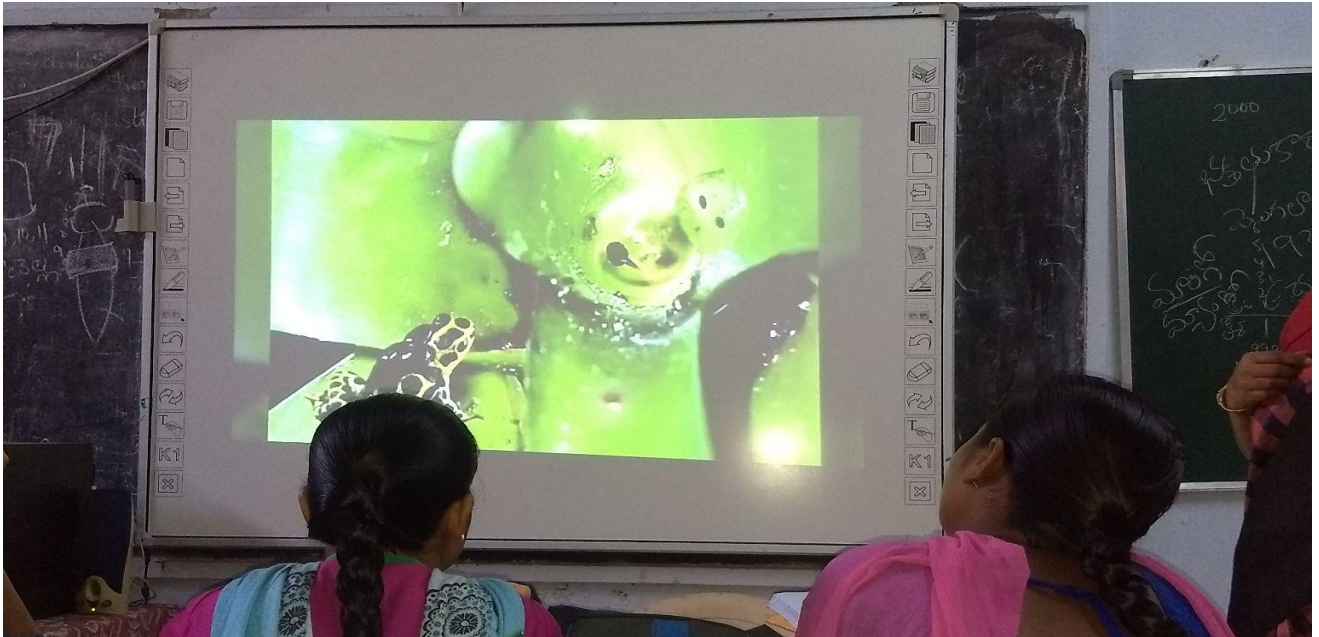
S.No.	Date	Semester	Topic	ICT tool used
1	23-01-2010	Sem II	Retrogressive Metamorphosis in Herdmania	PPT
2	03-02-2020	Sem II	Cyclostomes	Online video and pictures downloaded from Internet as charts
3	11-03-2020	Sem II	Central Nervous System of frog	PPT and Online Video
4	12-03-2020	Sem II	Parental Care in Amphibia	Video
5	14-03-2020	Sem II	Temporal fossa in Reptiles	PPT
		Sem II	Migration in Birds	Online Video

Teaching through PowerPoint Presentation





Teaching through Online Videos





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	21-08-2020	Diseases caused by microorganisms(e-Quiz)	3 teams-12 students
3	29-10-2021	CoronaVirus Disease	3 teams-9 students

Encouraging Competitive Spirit through Quiz Competitions



**Skill Enhancement - Making Models**



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

<b>Academic Year</b>	<b>Ratio of mentees to mentor</b>
2018-2019	18:1
2019-2020	30:1
2020-2021	44:1
2021-2022	56:1

### 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	P. Sree Latha	M. Sc., B.Ed., NET Qualified	Assistant Professor	3 years 5 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 Kakatiya 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 Kakatiya 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.

## Attainment of Programme and Course outcomes and their evaluation

The Program Outcomes (POs), Program Specific Outcomes (PSOs) and the Course Outcomes (COs), of all the programs offered by the institution are well communicated to the teachers before beginning of the every academic year in the form of manuals or handouts by the IQAC and Academic Coordinator and the same will be communicated to the students by the concerned teachers in their classrooms. Internal college examination committee deals with the effective implementation of the evaluation reforms regarding the attainment of course outcomes and programme outcomes. Besides, our department also tries to attain the course and program outcomes through conducting the activities such as career counselling, personality development programs, Yuvatharangam, health awareness programs, life skills development programs, student study projects, field survey, study tours, practical work, seminars etc.

The detailed Program Outcomes, Program Specific Outcomes and Course Outcomes are placed on the college website and are made available to all the stakeholders such as teachers, students, parents and alumni. The relevance of the COs will be discussed by the faculty with the students and the feedback on COs is obtained from the students. Program-Specific Outcomes of all the departments are highlighted through career options open to students after completion of the programs and the achievements of the alumni are also highlighted.

## 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, causes 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**

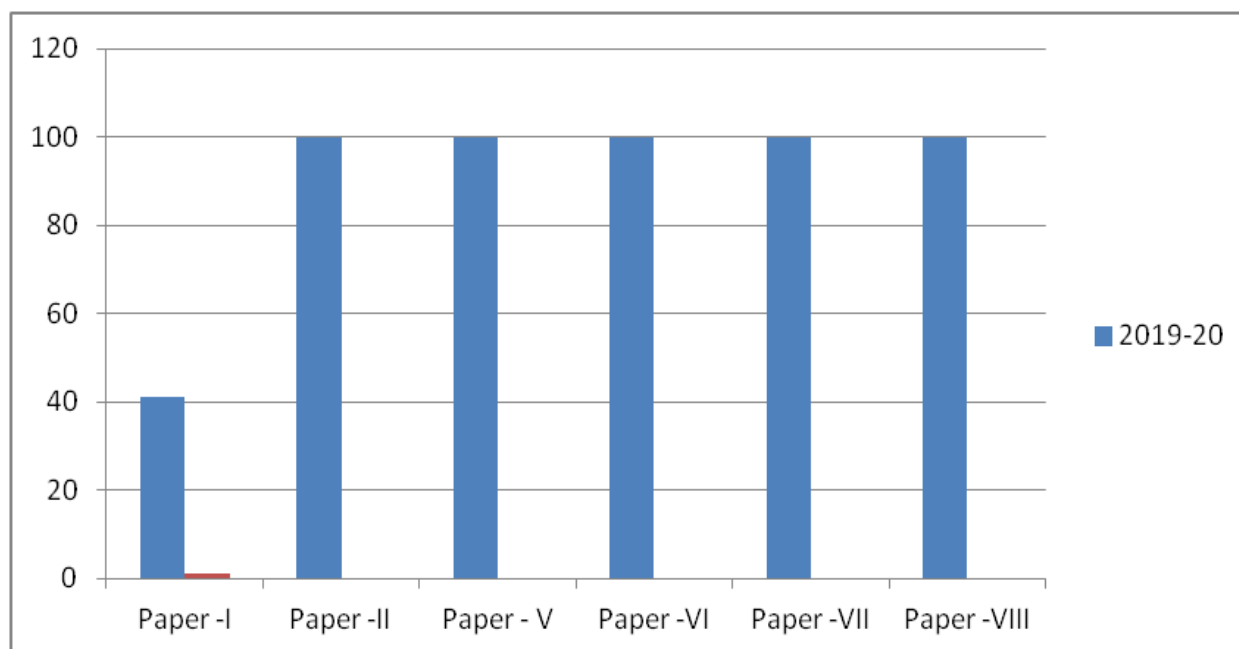
<b>A.Y.</b>	<b>Programme &amp; Medium</b>	<b>Semester</b>	<b>Paper</b>	<b>Appeared</b>	<b>Passed</b>	<b>Percentage</b>
<b>2018-2019</b>	B.Sc. Life Science	IV	IV	01	00	00
		V	V	01	01	100
			VI	01	01	100
		VI	VII	01	01	100
			VIII	01	01	100
<b>2019-2020</b>	B.Sc.Life Science T/M	I	I	32	17	53
	B.Sc.Life Science E/M			20	07	35
	B.Sc.Life Science T/M	II	II	21	21	100
	B.Sc.Life Science E/M			18	18	100
	B.Sc.Life Science T/M	V	V	01	01	100
				VI	01	01
		VI	VII	01	01	100
			VIII	01	01	100



## Subject wise and Teachers wise Result Analysis 2019-2020

S.No.	Subject & Paper	Name of the teacher	Semester	Appeared	Passed	%
1	Animal Diversity- Invertebrates-Paper-I	P. Sree Latha	I	52	24	46
2	Animal Diversity- Vertebrates Paper-I		II	39	39	100
3	Physiology and Biochemistry-Paper-V		V	01	01	100
4	Applied Zoology Paper-VI			01	01	100
5	Immunology and Animal Biotechnology Paper-VII		VI	01	01	100
6	Aquatic Biology- Paper-VIII			01	01	100

## Result Analysis 2019-20 to 2020-21



### 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 in the minds of the students and to develop innovative outlook and creativity. It is widely believed that 'Innovations are the integral part of teaching and as one of the primary objectives of education'. Keeping this in view, the Commissioner of Collegiate Education, Hyderabad introduced 'JIGNASA – Students Study Projects' program in the year 2016-17 which encourages research projects in about 15 subjects in the Govt. Degree Colleges across the State. As part of this program, Cash Prizes are given to the State Level First (Rs. 30,000) and Second Best Project(24,000). Commendation prize will also be given to the third best project in each subject. As part of this initiative, Zoology students have undertaken some study projects

#### Seminars conducted

The department of Zoology has conducted a national level Webinar titled “ Effective Life Management through Yoga and Life skills in the Changing Environment” on 15-07-2020 through Google Meet.

#### Extension and outreach activities

- The students of Department of Zoology have extensively participated in various extension activities
- conducted by the different wings of the College such as NSS, RRC, Women Empowerment Cell,
- Health Club, Red Cross, Consumer Club, Swachh Bharath, Telanganaku Haritha Haram, AIDS Awareness, Gender Issues, TSKC and IQAC Activities etc.
  
- The department of Zoology organises and participates in various extension activities to sensitize the students to various social issues and to strengthen their participation in community development.
- Participated in Gnana Jyothi Programme, a series of Quiz programmes organised under the Career Guidance Cell of the institution during the academic year 2018-2019
- Organised an awareness programme on “ Consequences of Eve teasing and Sexual Harassment’ on 01-09-2018 organised by ICC of the college
- Organised a free Dental camp for the students and staff of Government Degree College, Bellampally in collaboration with the college NSS unit on 08-11-2019
- Organised an awareness programme on “On Child abuse and Protection Laws” on 19-11-2019 in connection with “World Child Abuse and Prevention Day”
- Organised an awareness programme on “Women Rights” on the occasion of “ International Women's Day” on 11-03-2020
- Organised an Awareness programme on CoronaVirus Disease at the college on 12-03-2020 and the students of department of Zoology have actively participated in the awareness of COVID-19 as a part of their outreach programs during the NSS camp
- Participation in COVID-19 vaccination camp-2021

- Organised and participated in government initiated programmes like Swachh Bharath, Telangana Ku Harithaharam, AIDS awareness rally and the program initiated by the college NSS unit regarding road safety, eco friendly activities

**A free health camp for Dental Check-up- An Extension Service**



**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**



**Number of linkages for Faculty Exchange, Student Exchange, Field Trips**

Sl. No.	Title of the Program	Name of the partnering institution/Industry	Date
1	Field Trip	Krishi Vigyan Kendra, Bellampally	29-01 2020
2	Field Trip	Gandhari Vanam, Mancherial	27-10-2021

**Funcional MOU**

Between Department of Lifesciences and Central Silk Board Chennai, District: Mancherial. with effect from 23.11.2021 to 22.11.2023( For 2 Years).

**MEMORANDUM OF UNDERSTANDING**

**This memorandum of understanding is signed between:**

The Department of Life Sciences, Government Degree College Bellampally, Dist. Mancherial, located at Bellampally, affiliated to Kakatiya University, Warangal, established in the year 2008 and acting through

**The In-charge, Department of Life Sciences (Botany and Zoology), GDC Bellampally, Dist. Mancherial.**

**AND**

**Central Silk Board, Ministry of Textiles, Government of India acting through Scientist D, B.S.M & T.C**

**Objective:** The prime objective of the Memorandum of Understanding is for the promotion of:

- i. Innovations in education by practical method of learning
- ii. Interdisciplinary and multi disciplinary studies.
- iii. Exposure to applicable knowledge.
- iv. Generating interest in working with research institutions

**NOW THEREFORE, THE DEPARTMENT OF LIFE SCIENCES (BOTANY & ZOOLOGY), GOVERNMENT DEGREE COLLEGE, BELLAMPALLY AND B.S.M & T.C CENTRAL SILK BOARD, CHENNOOR have intended, agreed and consented to the following terms and deeds in pursuance of a common intent to promote Study of Life Sciences and expose to enhanced level of knowledge and application.**

**FIELD OF COOPERATION:**

1. Faculty visits, Student visits, Extension Lectures, Value Added Courses, Field Projects, Workshops and Seminars.
2. Awareness on Sericulture: To create awareness on the type of silk, type of food, rearing techniques and method of extracting silk from silk worms, advanced technologies used and market value.

**CONDITIONS OF AGREEMENT:**

- a. The details of the effective implementation of this Memorandum of Understanding shall be jointly worked out on mutually acceptable terms within the parameters of the policies, rules and regulation of both the institutions.
- b. The parties to the memorandum may, by mutual consent, add, modify, amend, delete and review any item(s) and condition(s) of this agreement.
- c. The intent and implementation of this memorandum is subject to the policies, rules and regulations of the respective institutions.
- d. The parties to this MOU undertake to treat as confidential and privileged information of the other institution which is so classified in advance. The terms of confidentiality and mode of disclosure shall be as per mutually acceptable terms. This MOU shall require the ratification of the competent academic/ executive body of both the institutions.

**PERIOD OF AGREEMENT:** The MOU shall remain in force for a period of 2(two) years from the date of signature and seal and may be terminated by either side by giving a one month notice to that effect in writing. However, notwithstanding the notice of the intent to terminate the memorandum, all rights, obligations and corresponding duties and subsisting therein shall be respected and mandated till the finalization and accomplishment thereof.

Signed to & On behalf of  
 Government Degree College, Bellampally  
 District Mancherial, Telangana State  
 Date: 23-11-2021  
**PRINCIPAL**  
 Govt. Degree College  
 Bellampally-504 251  
 Dist:Mancherial (T.S.)

Signed to & On behalf of  
 B.S.M & T.C CENTRAL SILK BOARD,  
 CHENNOOR  
 Scientist-D  
 B.S.M. & T.C.  
 Central Silk Board  
 CHENNUR  
 Date: 23-11-2021

Witnesses:  
 1. *(S. Srinivas)*  
 Lec. in Zoology  
 GDC Bellampally  
 2. *(J.V.R. Archana)*  
 Asst. professor of English,  
 GDC, Bellampally.



**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**

Presently the department 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 45 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.

(Infrastructural facilities and lab equipment are mentioned in the Appendix -III)

**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 Yuvatharangam, a programme initiated by the Commissionerate of Collegiate education, the college organises various competitions every year.
- D. Meghana of B.Sc. I year student bagged second prize at cluster level in Essay writing during 2019-2020.

**CRITERION: V- STUDENT SUPPORT AND PROGRESSION****Student Support****Number of Students Benefited by Scholarships and Free-ships provided by the Government****Students Benefited by Scholarships provided by the Government**

<b>S.No</b>	<b>Academic Year</b>	<b>Total No. of Students</b>	<b>No of students benefited by scholarships</b>
1	2015-2016	05	05
2	2016-2017	02	02
3	2017-2018	02	Nil
4	2018-2019	02	Nil
5	2019-2020	65	04
6	2020-2021	139	20

### Number of Capability Enhancement and Development Schemes

Students of the Department of Zoology have actively participated in various capability enhancement and Development Courses conducted by the concerned Department/Cell in the College. The important capability enhancement and development programmes are as follows:

In the beginning of every academic year, the college Principal constitutes various committees such as Academic, Administrative, IQAC and Extension Committees for smooth and effective conduct of curricular, co-curricular and extra-curricular activities. Students of the Department of Zoology participate in various committees.

### Representation of Students in academic Administrative Bodies/ of the Institution

S.No	Academic Year	Name of The academic/ Administrative committee	Student representatives from Zoology department
1	2018-2019	Special Fee Committee	K.Soundarya, B.Sc. B.Z.C.II yr
2	2019-2020	Special Fee Committee	K.Soundarya, B.Sc. B.Z.C.II yr
		Sports and Games Committee	O. Venkatesh, B.Sc. B.Z.C. I yr
		Cultural & Literary Committee	Y. Vamsi Krishna, B.Sc. B.Z.C. I yr
3	2020-2021	Sports and Games Committee	A.Rajesh B.Sc. B.Z.C. I yr
		Cultural & Literary Committee	Y. Vamsi Krishna, B.Sc. B.Z.C. I yr
		Special Fee Committee	P. Manasa B.Sc. B.Z.C. II yr
		Student Council	P. Manasa & D. Meghana B.Sc. B.Z.C. II yr
4	2021-2022	Anti Ragging Committee	P. Prathyusha BSc. B.Z.C. II yr
		Eco Club Committee	P. Amulya BSc. B.Z.C. II yr
		Cultural & Literary Committee	D. Meghana, Y. Vamsi Krishna BSc. B.Z.C. III yr

### No. of Awards received by the students

1. Durgam Meghana of B.Sc.(BZCA I yr E/M) student selected in Yuvatharangam Cluster Level Essay writing competition held at Adilabad in Academic Year 2019-20.
2. Jadi Mamatha of I yr B.c. B.Z.c. student bagged Santoor Merit scholarship In the academic year 2020-2021

### 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	Academic Coordinator
3	Internal Complaints Committee	Convener
4	Special fee Committee	Convener
5	Staff Council	Convener
6	NSS Advisory Committee	Member
7	Harithaharam Committee	Member
8	Swachh Bharat	Member
9	Internal Complaints Committee	Convener
10	Women Empowerment Cell	Member
11	Staff Council	Secretary

#### Performance Appraisal of Teaching staff

The IQAC appraises the performance of the teaching staff by adopting two methods such as Feedback System and self 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.

#### Teacher wise Feedback Analysis Overall Response

Sl. No.	Name of the Teacher	Feedback overall response- 2019-2020
1	P.Sreelatha	90.3

### **Internal Quality Assurance System**

The Department of Zoology is always in forefront in adopting the quality initiatives undertaken by the IQAC and has contributed significantly in various practices

- Academic calendar and Institutional annual academic plan
- Comprehensive feedback mechanism
- Organizing Orientation programmes
- Evaluation of POs, PSOs, and COs
- Internal academic audit
- Teaching Innovations
- Library practices and Best practices
- Preparation of reports
- Mentor Mentee System etc.

### **Review of Teaching Learning process, Structure & Methodologies of Operations and Learning outcomes at Department of Zoology:**

The Department reviews teaching learning process through the following methods:

- Monitoring Classes
- Feedback from students, teachers
- Evaluation of attainment of POs, PSOs, & COs
- Internal Academic Audit
- Review of Examination Results
- Reports on Teaching Methodologies
- Self Appraisal Form

### **CRITERION:VII- INSTITUTIONAL VALUES AND BEST PRACTICES**

#### **Participation in Gender Equality Programmes:**

The faculty of Zoology as a convener for the Internal Complaints Committee organises various awareness programs pertaining to women safety and security. Through the ward Counselling system girl students are given special interest and care.

The Department of Zoology practises Gender Sensitivity and Gender Equity through various facilities and programs

- Women Empowerment
- Bathukamma sambaralu
- Orientation Program for Girl students
- Health camp for haemoglobin testing
- International Women's Day

Annual lighting power requirement is met through LED bulbs and tubes

#### 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 biodegradable and nonbiodegradable wastes, Wastewater management, Natural organic manure preparation and it's utilization for the college garden etc. are adopted by the college.



#### 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 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.





#### Efforts/Initiative in providing an inclusive environment:

The students of the Department of Zoology participate in several programs and observe commemorative days like Ekta Divas, Telugu Bhasha Dinotsavam, National Integration Day, Constitutional Day etc. Students celebrate regional festivals like Bathukamma, Maha Shivaratri Jathara, Sammakka Jathara.

#### Sensitization of students to Constitutional Obligations:

The department of Zoology actively participates in the programs/ initiative taken by the institution to sensitize the students and staff to the constitutional obligations. Take part in

- Electoral Literacy Club
- National Voters Day( 25th January every year)
- Constitution Day(26th November) etc.

#### 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, Sardar Vallabhbhai Patel, Komuram Bheem, Abdul Kalam 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:

The department of Zoology has adopted the following best practices:

- **Maintenance of Book Bank** - Text books, Reference books, Study material, Books for competitive examinations, General Knowledge etc.



- **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
- **Bird Conservation** - for protecting house sparrows from extinction ( Mission Sparrow)



#### Plan of Action 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

## **APPENDICES**

- **APPENDIX - I: TEACHER'S PERSONAL PROFILE**
- **APPENDIX - II: DEPARTMENTAL TIME-TABLE (2019-20), SYLLABUS & WORK LOAD**
- **APPENDIX - III: ZOOLOGY (CBCS) SYLLABUS AND STRUCTURE**

## APPENDIX - I

## TEACHER'S PERSONAL PROFILE

1	Name in Full	P.Sree Latha
2	Designation	Asst. Prof. of Zoology
3	Father's Name	P.Nagi Reddy
4	Date of Birth	26/05/1969
5	Qualifications	M.Sc. (Zoology), B.Ed., NET qualified
6	Teaching Experience	12 yrs at Junior College Level & 10 yrs 11 months at UG level
7	Books Published	Nil
8	Research Papers	Nil
9	Computer Skills	MS Office
10	e- mail	pashamsrilu4@gmail.com
11	Training Programs attended	Attended 3- Day Induction Training programme at DRC, Nizamabad from 28-11-2011 to 30-11-2011
12	Orientation Course	Attended Orientation Course at UGC, HRDC- JNTUH from 11-07-2016 to 08-08-2016 (29 days)
13	Refresher course-1:	Completed R.C, Summer School at UGC, HRDC-MANUU from 24-05-2017 to 13-06-2017 (21 days)
14	Refresher course-2:	Completed R.C. on Gender Sensitization (online) at UGC, HRDC - O.U. from 27-07-2020 to 08-08-2020 (13 days)

15	Short term Trainings, seminar & conferences attended	<ol style="list-style-type: none"> <li>1. Attended S.T.C. on Effective teaching and Communication Skills at 10-06-2013 to 15-06-2013 at UGC, ASC, JNTUH</li> <li>2. Attended S.T.C on Soft Skills and Professional Ethics 26-08-2019 to 31-08-2019 at UGC, HRDC, JNTUH</li> <li>3. Attended S.T.C. on Challenges in Discovery of Antiviral agents and Vaccines from 08-06-2020 to 13-06-2020, at UGC, HRDC, JNTUH</li> <li>4. Attended FDP on ICT tools 12-08-2020 to 19-08-2020 at UGC, HRDC, and O.U.</li> <li>5. Attended FDP on Capacity Building and Skill Enhancement for Higher Education teachers 20-07-2020 to 25-07-2020 at Priyadarshini Degree and PG College, Nampally, Hyderabad</li> <li>6. National seminar from 08-01-2014 to 09-01-2014 on Emerging Trends in Microbial Technology at SRR Govt. Arts and Science College, Karimnagar, TS</li> <li>7. National seminar from 25-07-2014 to 26-07-2014 on Accreditation of Higher Educational Institutions at Kakatiya Govt. College, Hanamkonda, TS</li> <li>8. National seminar from 22-08-2014 to 23-08-2014 on Recent Developments in Biological Sciences at Govt. degree College, Siddipet, TS</li> <li>9. Accreditation of Higher Educational Institutions at Kakatiya Govt. College, Hanamkonda</li> <li>10. Emerging Trends in Microbial Technology at SRR Govt. Arts and Science College, Karimnagar, TS</li> <li>11. Attended one day regional workshop on 17th April 2019 at Giriraj Government College (A), Nizamabad, Telangana, on "Implementation of E-Office at Government Degree colleges".</li> <li>12. 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</li> <li>13. National Conference on 1-01-2020 on e- Content Development on OERs in Higher Education -Issues and Challenges and presented a paper</li> </ol>
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16	Seminars Organised	Organised a National level Webinar on Yoga
17	Extension Service:	<p>Acting as academic coordinator Convener for Internal Complaints Committee Convener for Green Audit Committee</p> <p>Convener for Staff Council and as a member in many other committees</p> <p>Delivered Extension lectures at various GDCs and Junior colleges of Mancherial district</p> <p>Attended as a Subject Expert for recruitment of guest faculty at Telangana Tribal Welfare Residential Degree College for Girls, GDC, Kaghaz nagar of Komaram Bheem Asifabad districts</p> <p>Attended as Judge for several District and cluster level Science fairs at Mancherial and KBM Asifabad Districts</p>

## APPENDIX - II

## DEPARTMENTAL TIME-TABLE (2019-20)

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	B.Z.C. I YR E/M	B.Z.CA. I YR E/M	B.Z.C. III YR ZN-3 T/M		B.Z.C. I YR T/M	ZN-4 LAB	
TUESDAY	B.Z.C. I YR E/M	B.Z.CA. I YR E/M	B.Z.C. III YR ZN-3 T/M		B.Z.C. I YR T/M		BZC I YR B-3 LAB
WEDNESDAY	B.Z.C. I YR E/M	B.Z.CA. I YR E/M	B.Z.C. III YR ZN-3 T/M		B.Z.C. I YR T/M	ZN-3 LAB	
THURSDAY	B.Z.C. I YR E/M	B.Z.CA. I YR E/M	B.Z.C. III YR ZN-4 T/M		B.Z.C. I YR T/M		
FRIDAY	BZC I YR B-1 LAB		B.Z.C. III YR ZN-4 T/M		BZC I YR B-3 LAB		BZC I YR B-1 LAB
SATURDAY	BZC I YR B-2 LAB		B.Z.C. III YR ZN-4 T/M				BZC I YR B-2 LAB

**SYLLABUS UNDER CHOICE BASED CREDIT SYSTEM (2019-2020)**

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. T/M	2*2 = 4	4	02	10
2	BZC –I Yr. E/M	1*2 = 2	4	*	6
4	B.Z.CA-I Yr. E/M	1*2 = 2	4	*	6
5	B.Z.C III Yr. T/M	2*2 = 4	6	*	10
<b>TOTAL</b>		<b>12</b>	<b>18</b>	<b>02</b>	<b>32</b>

**Total workload / week = 32**

**APPENDIX -III****INFRASTRUCTURE AND LEARNING RESOURCES**

The department has following Infrastructure and Learning Resources:

- One Spacious class room and a lab partitioned
- Digital board - 1
- LCD Projector -1
- Desktop Computer - 1

**Departmental Library** - 45 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 Permanent articles
- Register for Chemicals
- Budget Register
- Register for Non Consumables

**Laboratory Equipment available**

- Dissection Microscopes - 5
- Student Microscope - 1
- Dissection Trays -13
- Burette Stands -5
- Conical Flasks - 13
- Measuring jars -6
- Reagent Bottles -5
- Beakers - 23
- Burettes (Borosil glass) - 5
- Pipettes - 15
- Permanent Specimens - 34
- Permanent Slides - 7
- Skeleton of Pigeon (Pectoral, pelvic Girdles, Humerus, Radioulna)
- Bio Visual charts - 9



