

**SRI UMAMAHESWARI GOVERNMENT DEGREE COLLEGE
KONDANAGULA, NAGARKURNOOL (DIST) 509401.**



DEPARTMENT OF ZOOLOGY

DEPARTMENTAL PROFILE

SUBMITTED TO NAAC PEER TEAM



INDEX		
S.NO	CONTENT	PAGE NO
1.	Salient features of the zoology department	3
2.	History of the zoology department	4
3	Vision & Mission, SWOC Analysis,	5-6
4.	About the teaching non teaching faculty	7
5.	Curriculum vitae	8
	Criteria Wise Departmental Activities	
I	CURRICULAR ASPECTS	10-17
II	TEACHING LEARNING AND EVALUATION	18-46
	Student Seminars	19-22
	Quiz Programmes, Remedial classes, Puzzles	24
	Field trips	25-28
	Extension / guest lectures	29-33
	Evaluation	33
	STUDENT PROFILE (Social Status)	34-40
	Year Wise Result Analysis	41-46
III	RESEARCH AND CONSULTENCY	47-60
	Study Projects	47-53
	FDPs, MOUs	54-60
IV	INFRASTRUCTURE AND LEARNING RESOURCES	61-76
	Bio visual charts, Museum specimens	61-69
	List of chemicals, Equipments	70-71
	ICT Tools	73-75
V	STUDENTS SUPPORT AND PROGRESSION	77-78
VI	ORGANIZATION AND MANAGEMENT	79-81
VII	INSTITUTIONAL VALUES & BEST PRACTICES	82-84
X	Action plan 2022-23	85

SALIENT FEATURES OF THE ZOOLOGY DEPARTMENT

- The department was established in **1989**.
- The department has one lecturer; he has qualified APSET in 2013.
- In addition to regular teaching aids, OHP and ICT technology is used regularly.
- Departmental library is maintained.
- Study projects and assignments are given to the students.
- Conducting students' seminars on important topics.
- Organizing field trips relevant to the subject.
- Faculty members participated in Refresher and Orientation courses.
- The department has one lecturer with more teaching experience.
- The performance in University exams is far better than the average of University results
- The Departmental Library has reference Books, Paper Clippings, Previous Question Papers, Question Banks etc., which are kept for students' usage.
- Teaching practices involve using of Bio-Visual Charts, Permanent Micro slides and PPTs etc..
- The Department provides additional curricular modules to the students
- Quiz programmes and group discussion are conducted.
- Counseling is given to the students so that they would overcome personal as well as career problems.

HISTORY OF THE DEPARTMENT

- The Department of Zoology was established in the year 1989 under the private management.
- Sri. Ashok kumar was the first Head of the Department.
- , Dr. Krishnaiah, Sri.Ashokkumar ,C.Nagaraju are the successive Heads of the Department.
- Presently B.Johnbabu, Lecturer in Zoology, is the acting as Head of the Department.
- The Department has well equipped Labs with number of Specimens, Charts, Slides, Research Microscope, number of Compound Microscopes, Centrifuge, Hot , Electrical Heater etc., for performing the practicals related to Syllabus.
- Since the establishment, the Department has acquired lot of material and equipment needed to conduct the Practical.
- The faculty of Zoology Department consists of one Lecturer with more teaching experience.
- The performance in University exams is far better than the average of University results
- The departmental library has reference books, paper clippings, previous Question Papers, Question Banks etc. which are kept for the use of students.
- Teaching practices involved using of bio-visual charts, Permanent Micro-slides and PPTs etc.
- The department provides additional curricular modules to the students to give additional information.
- In addition to usual teaching aids the department makes use of OHP and MANA TV.
- The department conducts extension lectures every year by inviting prominent Lecturers and Readers from the departments of Aquaculture, Zoology and Bio-technology.
- The department has established MOUs and linkages with milk chilling center achampet.
- The students are evaluated regularly by conducting Unit-Tests, Assignments, Seminars , Quiz programs and Group Discussions
- Students who stand below average are treated with extra care.

VISION AND MISSION



VISION

To impart education that generates good citizens with academic excellence and strong commitment to society. To perpetuate value based education favorable to the progress of students and society so as to promote peace and harmony.

MISSION

Our mission is to offer high quality education dedicated to building minds with conviction, integrity, social and moral responsibility. We are committed to educating the students beyond the confines of a class room to make them better individuals and

develop their personalities, enabling them to face the challenges of the modern world.

SWOC ANALYSIS

STRENGTH	WEAKNESS
Experience faculty expertise in Teaching and Research	Single faculty limiting the development and quality and approach
Well Equipped zoology lab with OHP	No PG Programme in zoology
Well ventilated and spacious class room	
Availability of research microscope	

OPPORTUNITIES	CHALLENGES
Availability of many learning resources on campus in an effort to ensure academic excellence	To enhance self reliance among the students
To offer certificate courses related to Vermi culture and complete Blood profile test	Few of the students dropped out in the middle of the academic year due to getting marriages and poor background.
To be start in PG Programme	

ABOUT THE TEACHING FACULTY

S.No	Name of the lecturer	Designation	Qualification	Specialization	Experience
1	B.John babu	Lecturer	M.Sc,BEd,SET	Fish Pathology	15 years



NON TEACHING STAFF

S.no	Name of the faculty	Designation	Qualification
1	M.Lalitha	Store Keeper	Degree

2	B.Renuka	Office subordinate	Intermediate
---	----------	--------------------	--------------

CURRICULUM VITAE

Name : B. John babu

Father name : Sri. B. Bhadraiah

Gender : Male

Date of birth : 13-05-1983

Residence address : H.No-13-6,Bethavole Village,
Chilkur (Mandal) Suryapet Dist.

Office address : SUM.Govt.Degree College,
Kondanagula, Nagarkunool Dist.

Contact no. : 9440405216, 6300292563

Educational qualifications : M.Sc, B.Ed, APSET

Designation : Lecturer

Date of joining : 05-09-2008

Mode of appointment : Through RJD, CE Warangal

Teaching experience : 15 years

Extracurricular activities : DOST ADMISSIONS CO ORDINATOR
: NAAC CRITERIA 2 INCHARGE
: Class in charge BZC-III YEAR

Johnbabu Boliseti

- Worked as a lecturer in Zoology at **Govt Degree College,Atmakur,wanaparthy Dist.**From 05-09-2008 to 31-04-2015 and **SV.Gdc,palem** From 08-07-2013 to 09-10-2013
- Has been working as a lecturer in Zoology in **Sri Umamaheswari Govt Degree College Kondanagula** Since 10-10-2013 to till date.
- Post graduate (M.Sc Zoology) from Kakatiya University Warangal in First Division With Distinction.
- **Attended the AIVA-II two days National Conference conducted by department of zoology Nizam College OU Hyderabad on 27-02-2018 and 28-02-2018.**
- **Attended Two day State level work shop on BSc.Life Sciences CBCS Curriculum at Dr.BRR Govt Degree College Jedcherla, Mahabubnagar.Dist on 14-15 july 2017.**

Criteria wise Departmental Activities

I. Curricular Aspects

We follow the syllabus framed by Palamuru University, mahabubnagar dist. The common core syllabus has been introduced in Andhra Pradesh with effect from 1993 by the State Council for Higher Education Hyderabad. The first year syllabus was revised in the year 2016-17 Under the CBCS(Choice Based Credit System) for all Telangan state universities, And second time revised the first year syllabus on 2019-20. Improvement of syllabus is done by incorporating the additional inputs. Annual curricular plan is prepared in the beginning of the academic year in which teaching and other activities are related. In addition to the syllabus to create interest in subject additional inputs are given to the students. The Curriculum is being implemented according to the Almanac provided by the Affiliating University and Academic Calendar issued by the Commissioner of Collegiate Education, Hyderabad. The Incharge of the Department conducts the review meetings once in a month at their respective department to know the status of the completion of syllabus and to monitor the conduct of other co-curricular activities such as Remedial Coaching Classes, Student Seminars, Quiz Competitions, Assignments, Group Discussions, and Internal Exams etc. The faculty is encouraged to leverage the modern technology to make the teaching-learning process more effective. The Department also organizes various programs related to the academics such as Field Trips, Educational Tours, Personality Development Seminars etc.

SYLLABUS AND CREDITS

S.NO	PAPER	TITLE OF THE PAPER	THEORY CREDIT	PRACTICAL CREDITS	TOTAL CREDITS
1	I	ANIMAL DIVERSITY INVERTIBRATES	4	1	5
2	II	ANIMAL DIVERSITY VERTIBRATES	4	1	5
3	III	ANIMAL PHYSIOLOGY AND ANIMAL BEHAVIOUR	4	1	5
4	IV	CELL BIOLOGY GENETICS AND DEVELOPMENTAL BIOLOGY	4	1	5
5	DSE-1 (SEM-V)	IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY	4	1	5
6	DSE-2 (SEM-VI)	ECOLOGY, ZOO GEO GRAPHY AND EVOLUTION	4	1	5

Program Outcomes and Program Specific Outcomes of B.Sc (BZC) in Zoology

B. Sc (BZC) Zoology Programme

B.Sc. in Zoology is an undergraduate Program in Zoology. Zoology is the branch of science which deals with the study of animal kingdom including the evolution, structure, Physiology, classification, embryology, habits, habitat and distribution of all the animals.

The B.Sc. Zoology course is premeditated to introduce students to the study of zoology at the organismal and organ function levels. The theoretical part of the program deals with the general principles of classical as well as modern zoology. The program provides the student with an introduction to the recent advances in zoology in the areas of systematic, evolution, reproduction, development, animal diversity, biochemistry, cytology and animal ecology. This course is offered for candidates who are interested in the study of animals. The minimum time required to complete the course is three years.

Objectives:

Imparting quality education in Zoology has been the focus of the department right from its inception. Emphasis is given on education both within and outside the classroom.

The Department is dedicated to fulfil the following objectives through the curricular and cocurricular activities:

- To provide students with knowledge of fundamental principles in zoology that will provide a foundation for their later advanced course in more specific biological subjects.
- To make students familiar with animal classification schemes and other applied courses as well as developing an understanding of and ability to apply basic zoological principles.
- To integrate the laboratory and lecture sections of the course and directed toward teaching students both in the classroom and on the field.
- To provide quality education offering skill based programs and motivate the students for self-employment in applied branches of Zoology.
- To inculcate the value based education and entrepreneurial skills among the students.
- To create awareness on environmental issues through various activities.

PROGRAM OUTCOMES

After successfully completing B. Sc(BZC) Zoology Programme students will be able to:

PO1. Communicate scientific information through effective formal and informal methods generally used in sciences.

PO2. Conduct basic scientific research and provide inputs for societal benefits.

PO3. Develop competence in basic sciences and in the content of the specific courses that constitute the principal knowledge of their degree.

PO4. Compare and contrast the characteristics of animals that differentiate them from other forms of life.

PO5. Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments.

PO6. Understand and be aware of relevant theories, paradigms, concepts and principles of zoology.

PO7: Understand the structure and functions of cell types

PO8: Acquire time management and self-management skills.

PO9: Relate the various abiotic factors with health of living forms and ecosystems.

PO10: Explain the role of various biomolecules in living systems

PO11: Apply the knowledge of Zoology to understand the complex lifeProcesses and phenomena.

PO12: Recognize the need for, and have the preparation and ability to engage inindependent and life-long learning.

PROGRAM SPECIFIC OUTCOMES

PSO1. Ability to connect and apply biological knowledge to otherdisciplines and to integrate

PSO2. Explain the origin of life with context to the origin of eukaryoticcell and endosymbiotic theory of origin., fossil records, Darwinismand Neo-Darwinism, experimental evidences.

PSO3. Illustrate zoological science for its application in branches like medical entomology, apiculture, aquaculture and agriculture etc

PSO4. Understand animal interactions with the environment and identifythe major groups of organisms with an emphasis on animals and classify them within a phylogenetic framework.

S.U.M.GOV'T DEGREE COLLEGE, KONDANAGULA, NAGARKURNOOL DIST.**DEPARTMENT OF ZOOLOGY,****TIME TABLE For the A.Y 2022-23.**

		1 st period	2 nd period	3 rd period	lunch	4 th period	5 th period	6 th period	
DAY	YEAR	10:00-11:00	11:00-12:00	12:00-1:00	1:00-1:30	1:30-2:30	2:30-3:30	3:30-4:30	
MONDAY	I		Zoology-I		BREAK LUNCH		ZOOLOGY-III LAB		
	II			Zoology-II					
	III								
TUESDAY	I			Zoology-I					
	II								
	III		Zoology-III						
WEDNESDAY	I							ZOOLOGY-I LAB	
	II	Zoology-II							
	III		Zoology-III						
THURSDAY	I								
	II			Zoology-II					
	III		Zoology-III						
FRIDAY	I	Zoology-I							
	II			Zoology-II					
	III		Zoology-III						
SATURDAY	I					Zoology-I	ZOOLOGY-II LAB		
	II								
	III								

WORK LODE OF INDIVIDUAL LECTURER-2022-23.

The department of Zoology has a work load of 25 hours per week. There are one sanctioned post having zoology department. But only one lecturer deals with all 1,2,3,4 papers. In addition to these lecturer involved in Co curricular activities.

S.no	Name of the lecturer	Theory periods	Practical's	Total
1	B.John babu	I BZC-4	3	7
2		II BZC-4	3	7
3		III BZC-4	3	7
4		SEC/GE/PROJECT-4	0	4
5	Total	16	9	25

• Criteria - 2

• Teaching, Learning and Evaluation

- Faculty members take classes according to the **time table**.
- **Teaching diary**: is maintained regularly throughout the academic year.
- **Teaching methods**: Involves an informative lecture accompanied by demonstration wherever necessary.
- **Teaching notes**: The faculty members also give study material to the students.
- **Teaching aids**: Teaching aids are used for better understanding. We use teaching aids such as specimens, models, charts, OHP, PPTS, subject related animation videos



Awareness on AIDS programme by using power point presentation.



AIDS Awareness Rally

Student Seminars:

Certain topics are assigned to the students of BZC I, II, and III years to participate in seminars. Many students actively participated in seminars.

S. NO	ACADEMIC YEAR	DATE	NAME OF THE STUDENT	H.T.NO	GROUP/SEM	SEMINOR TOPIC
1	2016-17	07.09.2016	Y.VINOD	3051-14-445-529	BZC-3 YEAR	DIGESTIVE SYSTEM
		07.09.2016	N.KISHAN	3051-14-530		BLOOD GROUPS
		07.09.2016	R.SHIVA	16033051445522	BZC-ISEM	CANALM SYSTEM IN SPONGES
		07.09.2016	C.KALYANI	16033051445505	BZC-ISEM	LEECH DIGESTIVE SYSTEM
2	2017-18	05.09.2017	G.SHIVA	305115445516	BZC-III YEAR	BLOOD GROUPS IN MAN
		05.09.2017	G.SHIVA	305115445516	BZC-III YEAR	MIGRATION IN BIRDS
3	2018-19	16.07.2018	G.SWAPNA	18033051445507	BZC-ISEM	WATER VASCULAR SYSTEM IN STAR FISH
		23.01.2019	M.ANJANEYULU	16033051445515	BZC-V SEM	TYPES OF IMMUNITY
		23.01.2019	CH.LINGAMAIAH	16033051445504	BZC-V SEM	MABS
4	2019-20	02.11.2019	R.ANJALI	19033051445515	BZC-I SEM	DISEASES CAUSED BY PROTOZOVANS
		02.11.2019	G.SWAPNA	18033051445507	BZC-IIISEM	TYPES OF SCALES IN FISHES
5	2020-21	22.02.2021	T.KAVITHA	20033051445012	BZC-I SEM	AMOEBOID LOCOMOTION

		22.02.2021	V.KRISHNA	20033051445042	BZC-ISEM	FLAGELLARY LOCOMOTION
6	2021-22		RENUKA	19033051445	BZC V SEM	CELLS IN IMMUNE SYSTEM
			ANIL	19033051445	BZC VI SEM	FOOD CHAIN
			T.RAMA KRISHNA	19033051445	BZC VI SEM	ECOLOGICAL PYRAMIDS
7	2022-23	10.11.2022	SHARANI	22033051445	BZC-ISEM	LOCOMOTION IN PROTOZOVA
		23.11.2022	BHAGYA LAXMI	22033051445	BZC-ISEM	SCHISTOSOMA
		23.11.2022	RADHIKA	22033051445	BZC-ISEM	SCHISTOSOMA

STUDENTS SEMINARS LIST



Seminar by Vinod BZc III on digestion



Seminar by Kishan BZc III on blood groups



Seminar by Mounika BZc II migration in birds



Seminar by Shiva BZc I on canal system



G.SHIVA BZC-III YEAR ON BLOOD GROUPS



V.KRISHNA BZC-I SEM ON FLAGELLARY LOCOMOTION



T.KAVITHA BZC-I SEM ON AMEBOID LOCOMOTION R.ANJALI BZC-I SEM ON DISEASES CAUSED BY PROTOZOANS



G.SWAPNA BZC-III SEM ON SCALES IN FISHES



MD.MUJAHED BZC-III ON STRUCTURE OF NEPHRON



RENUKA BZCV SEM ON CELLS IN IMMUNOLOGY



ANIL BZCVI SEM ON FOOD CHIAN



BHAGYALAXMI BZCI SEM ON SCHISTOSOMA



SHARANI BZC ISEM ON LOCOMOTION IN PROTOZOVA



J.RAITHA BZCIV SEM ON RHIBOSOMES



RADHIKA BZCI SEM ON SCHISTOSOMA

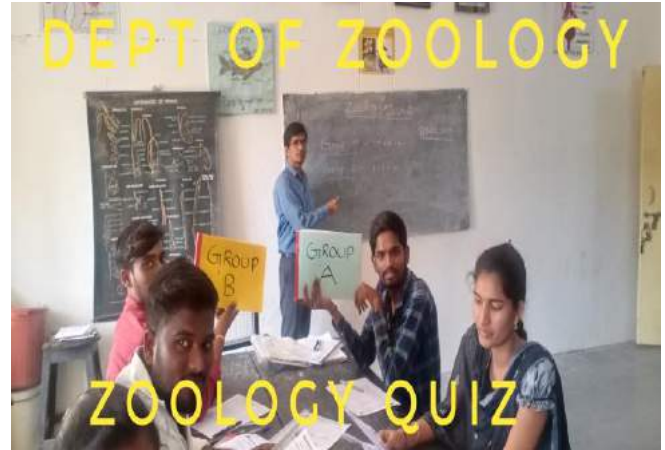
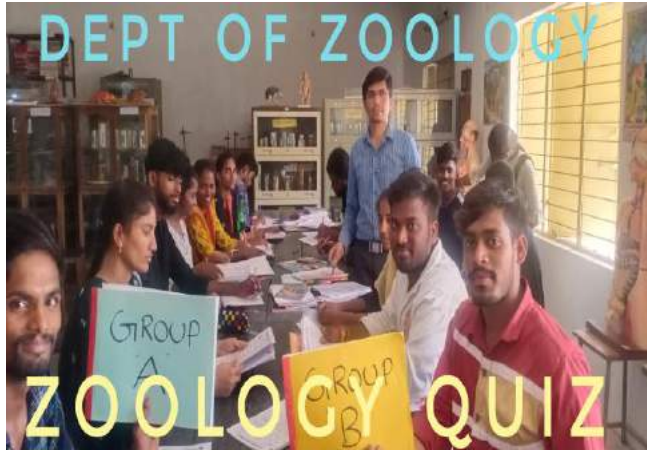
- **Remedial coaching:** remedial classes were conducted for B.Sc II and III year students by selecting by slow learners and failure students.
- **Group discussion:** students are divided into groups. Different topics are provided to the groups to discuss the given topic. Group discussion was on the topic of Blood groups. Students actively participated in the discussion.
- **Quiz programmes:** Quiz Programmes are conducted based on our UG Zoology syllabus and we encourage the students to participate actively in the programme.



Department of Botany & Zoology conducting a quiz to BZC I II & III year Students.

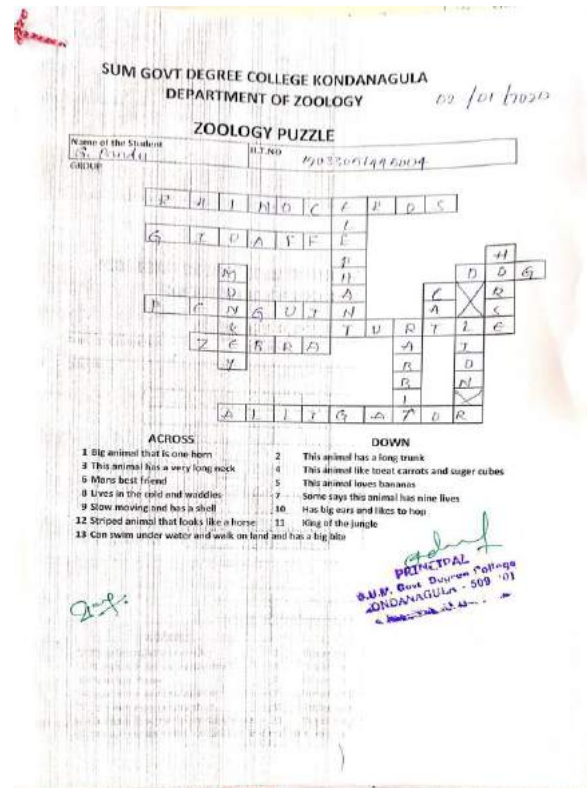
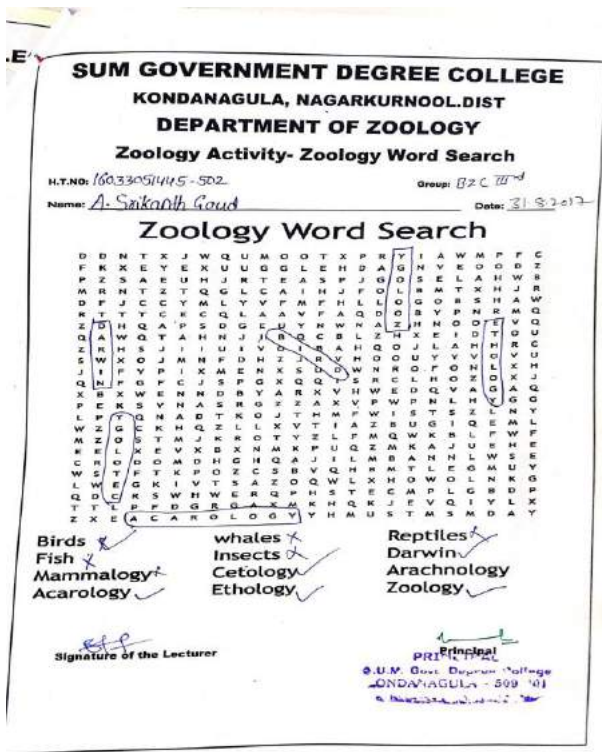


Quiz programme conducted by B. John babu lect. In zoology



Quiz programme conducted by B. John babu lect. In zoology to BZC V Sem students

Play Way Methods : Students Involving the Subject Puzzle game & Match the Sets



FIELD TRIPS; Department organized field trips every year to make the students learn practically by observing.

Field trips arranged to joint survey of Flora and Fauna of Mannanur area on 2016-17 academic year

Visited to poultry form near to Achampet on 2017-18 year

Visited to Kondanagula village local lake to collect the water samples and observed the protozoae and zooplanktons on 2016-17 year

Visited to pala shithaikarana kendram (milk chilling centre) at Achampet on 2018-19 year. In this progrsmme the department of chemistry and zoology involved.

Field visit at infosys company at hyderabad on 2019-20 year

Field visit arranged at college small pond to collect the water for the identification of zoo planktons

A field visit has arranged dept of zoology identification of zoo planktons in milaram chervu near to kondanagula on 2022-23

A field was succssfully conducted to visit poultry form at milaram village near to kondanagula on 2022-23 year.



Observing the fossils of Leopard & wild boar mannannur.



Observing Short film on Wild & Rarein the EEC animals of Nallamala forest



Identification of Protozoan's & Zooplanktons in water samples 2016-17



Field visit on poultry farm at Achampet. 2017-18



Field visit on milk chilling centre at Achampet.2018-19



Field visit at infosys, hyderabad 2019-20.



Field visit at college small pond to identify the zoo planktons on 2021-22 year.



Field visit at poultry form Milaram village near kondanagula on 2022-23



Field visit at milaram chervu near kondanagula on 2022-23

Assignments:

- Assignments are given to the students to increase the students learning capacity. For academically backward students assignments are given to learn and practice.

EXTENSION LECTURES

- For the benefit of the students the department arranged the extension lectures by eminent subject experts of nearby colleges and research institutes.

1. B.Johnbabu Lect.in zoology GDC Kondanaguala Extension lecture delivered on DARWINISM. on 05-09-2013 at GDC Amrabad(2021-22)

2. B.Johnbabu Lect.in zoology GDC Kondanaguala Extension lecture delivered on CYCLOSTOMATA. on 10-05-2022 at GDC Amrabad (2021-22)

3. Extension lecture given by Sri.L.Kodanda Ramulu, Lect.in zoology GDC, NAGARKURNOOL on CELL CYCLE & REGULATION(DUE to COVID-19 REASON ARRANGED ARRANGED EXTENSION AS ONLINE MODE THROUGH ZOOM PLATFORM on 05.06.2021.

4. B.JOHNABU Lect.in Zoology GDC Kondanaguala Extension lecture delivered on MITOSIS . on 27-01-2020 at KRR GDC KODAD(2019-20).

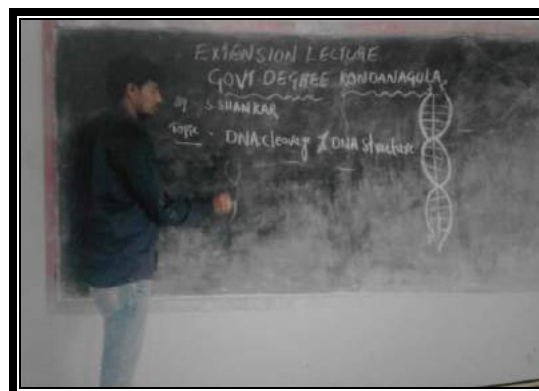
5. Dr. C. Nagaraju SV GDC Palem given Extension lecture on Structure of DNA & CANAL SYSTEM to BZC students on 09.09.2019.

6. Sri. S.Shankar lect in zoology GDC Amrabad given Extension lecture on ADLOSCENT & HEALTH to BZC students on 31.08.2018.

7. Sri. M.KURUMIAH Lect in zoology GDC Kollapur given Extension lecture on Haemotology to BZC students on 02.12.2016.



C.Nagaraju delivered extension Lecture on CANAL SYSTEM



Extension lecture on **ADLOSCENT& health** by Shankar lect. In zoo.

EXTENSION LECTURES/ GUEST LECTURES

S.No	Academic Year	Class	Name of the Resource person	Topic delivered	Date
1	2021-22	BZC VI SEM	B.JOHNBABU GDC KONDANAGULA	DARWINISM LECTURE DELIVERED AT GDC AMRABAD	27.06.2022
	2021-22	BSC II SEM	B.JOHNBABU GDC KONDANAGULA	CYCLOSTOMATA	10.05.2022
2	2020-21	Bzc IV SEM	Sri.L.Kodanda Ramulu GDC NGKL	CELL CYCLE & REGULATION(DUE TO COVID-19 REASON ARRANGED ARRANGED EXTENSION AS ONLINE MODE THROUGH ZOOM PLATFORM	05.06.2021
3	2019-20	BZC IV SEM	B.JOHNBABU GDC KONDANAGULA	MITOSIS AT KRR GDC KODAD	27.01.2020
	2019-20	BZC I SEM	Dr. C.NAGARAJU SV GDC PALEM	STRUCTURE OF DNA & CANAL SYSTEM	09.09.2019
4	2018-19	BZC ALL	Sri. S.SHANKAR GDC AMRABAD	ADLOSCENT & HEALTH	31.08.2018
5	2016-17	BZC (I,II,III)	Kurumaiah (GDC,Kollpur)	HEMATOLOGY	02-12-2016



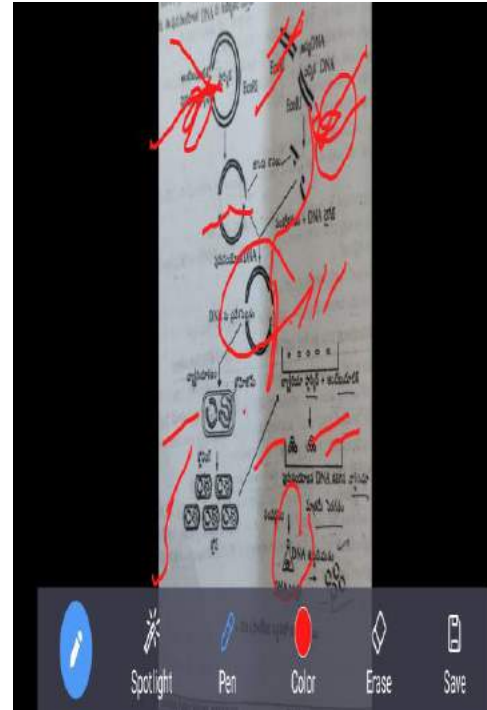
**Guest lecture on adolescent & health
By Shankar lect. In zoology 2018-19**



**Guest lecture on hematology
By kurumaiah lect. In zoology 2016-17**



EXTENSION LECTURE AT KRR GDC KODAD ON MITOSIS ON 2019-20



EXTENSION LECTURE BY SRI L.KODANADARAMULU THROUGH ZOOM APP(2020-21)



EXTENSION LECTURE AT GDC AMRABAD ON CYCLOSTOMATA ON 2021-22



EXTENSION LECTURE AT GDC AMRABAD ON DARWINISM ON 2021-22

Paper clippings:

paper clippings collected by staff and students from daily newspapers, important articles related to subject has been preserved by the department to impart the additional information to students.

EVALUATION

The department conducts unit tests, quarterly exams; half yearly and pre-final exams to record students progression. The performance of students is also evaluated by

- conducting quiz programmes,
- group discussions,
- students' seminars,
- Assignments.
- Student involvement in the classroom in answering the questions orally related to the subject.
- Arranging the classes for PG courses

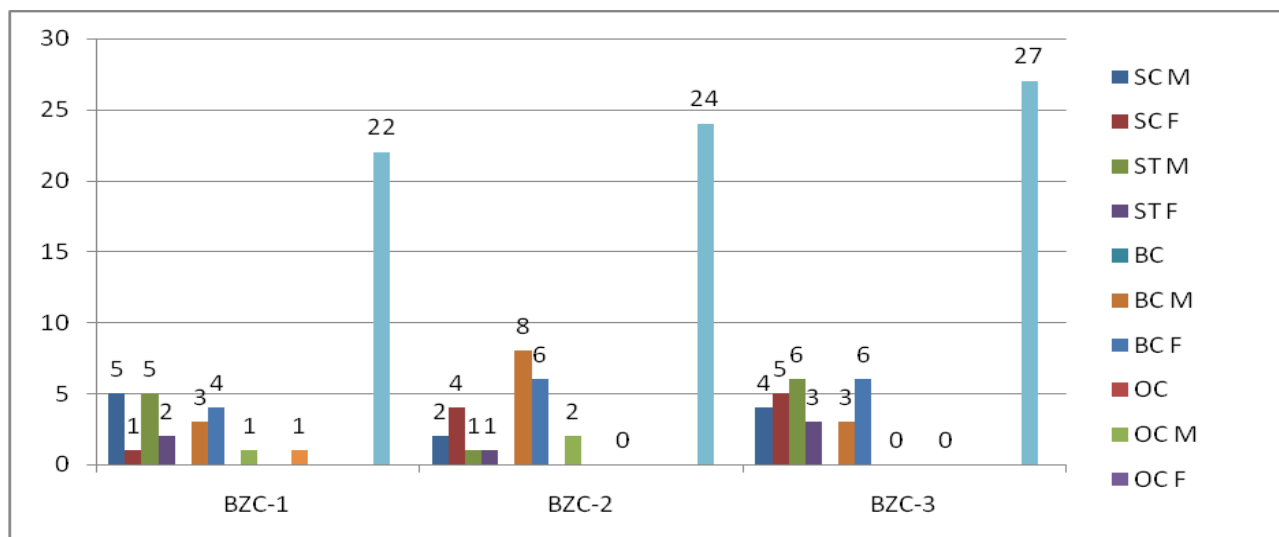
Student Profile

There is good demand for BZC seats in our college. 90% of our students who are socially backward class are admitted in UG course. Many SC and ST students are competing with OC students are getting admitted under open category. Almost all the SC, ST, and BC's are getting scholarships.

Social status of the students 2016-2017

GROUP	SC		ST		BC		OC		Minority		PHC		TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	
BZC-1	05	01	05	02	03	04	01	0	01	0	0	0	22
BZC-2	02	04	01	01	08	06	02	0	0	0	0	0	24
BZC-3	04	05	06	03	03	06	0	0	0	0	0	0	27

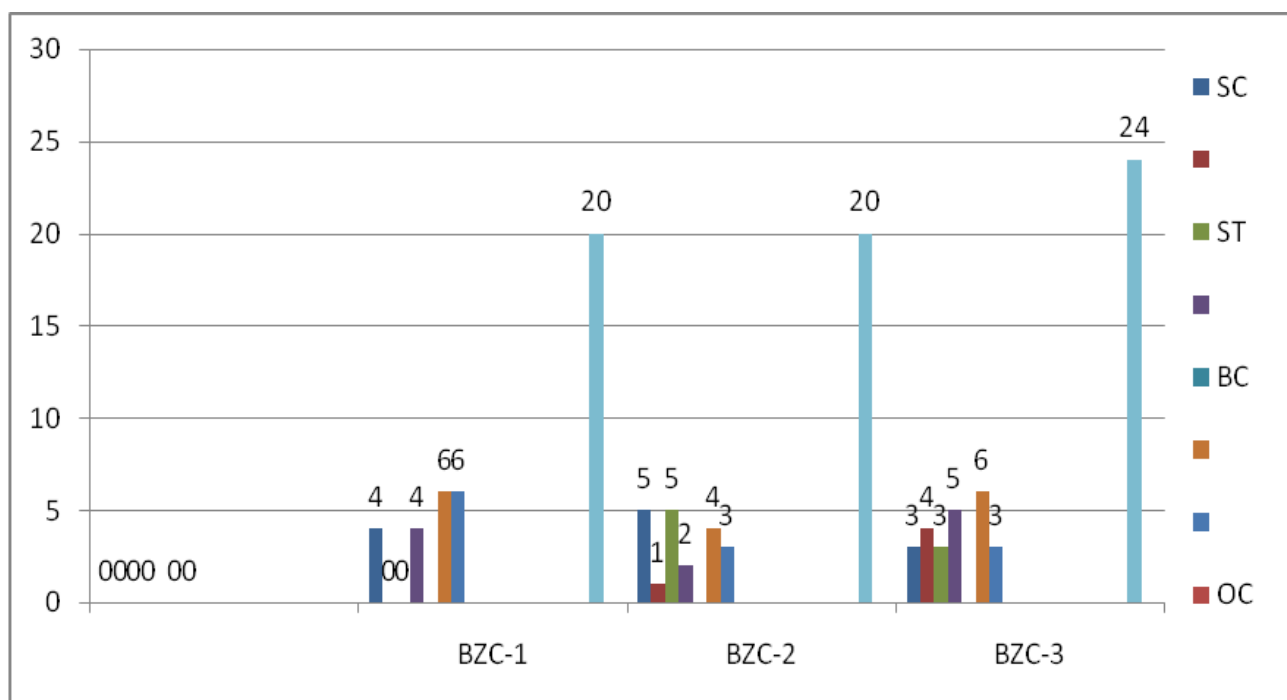
Graphical representation of the social status during 2016-17



Social status of the students 2017-2018

GROUP	SC		ST		BC		OC		Minority		PHC		TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	
BZC-1	4	0	0	4	6	6	0	0	0	0	0	0	20
BZC-2	05	01	05	02	04	03	0	0	0	0	0	0	20
BZC-3	03	04	03	05	06	03	0	0	0	0	0	0	24

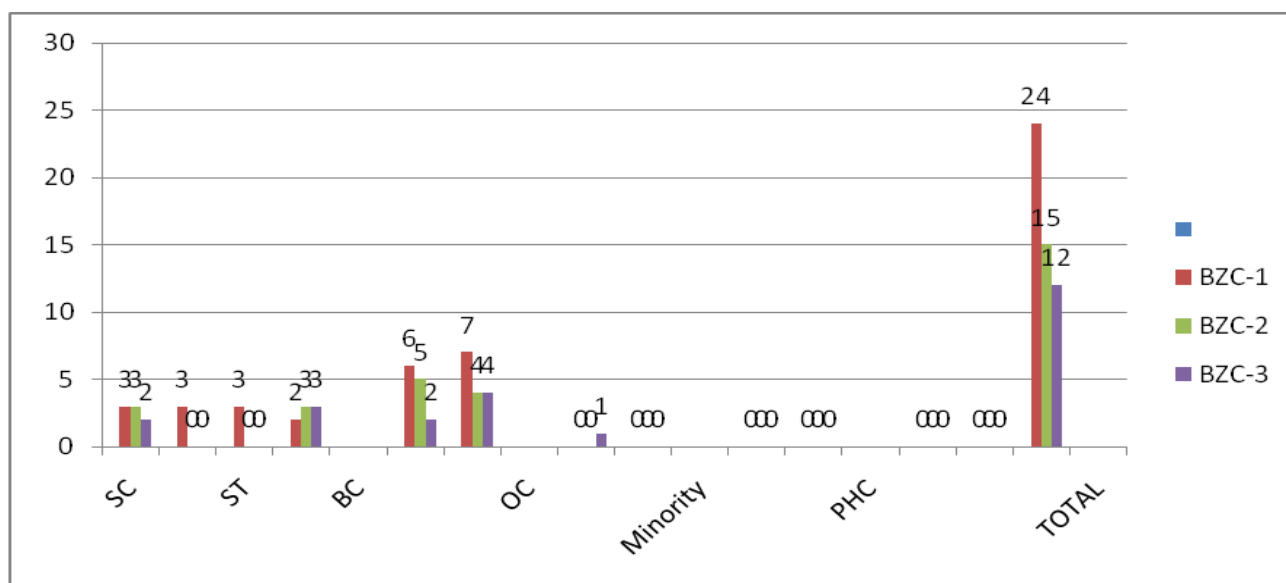
Graphical representation of the social status during 2017-18



Social status of the students 2018-2019

GROUP	SC		ST		BC		OC		Minority		PHC		TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	
BZC-1	3	3	3	2	6	7	0	0	0	0	0	0	24
BZC-2	3	0	0	3	5	4	0	0	0	0	0	0	15
BZC-3	02	0	0	03	02	04	01	0	0	0	0	0	12

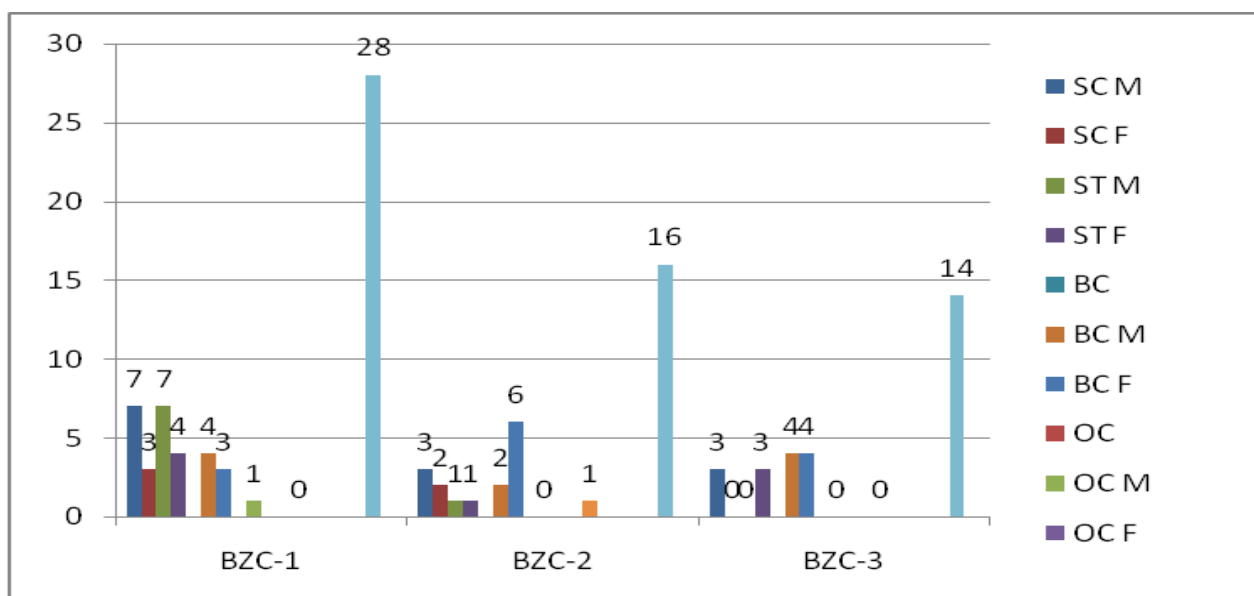
Graphical representation of the social status during 2018-19



Social status of the students 2019-2020

GROUP	SC		ST		BC		OC		Minority		PHC		TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	
BZC-1	7	3	7	4	4	3	1	0	0	0	0	0	28
BZC-2	3	2	1	1	2	6	0	0	1	0	0	0	16
BZC-3	3	0	0	3	4	4	0	0	0	0	0	0	14

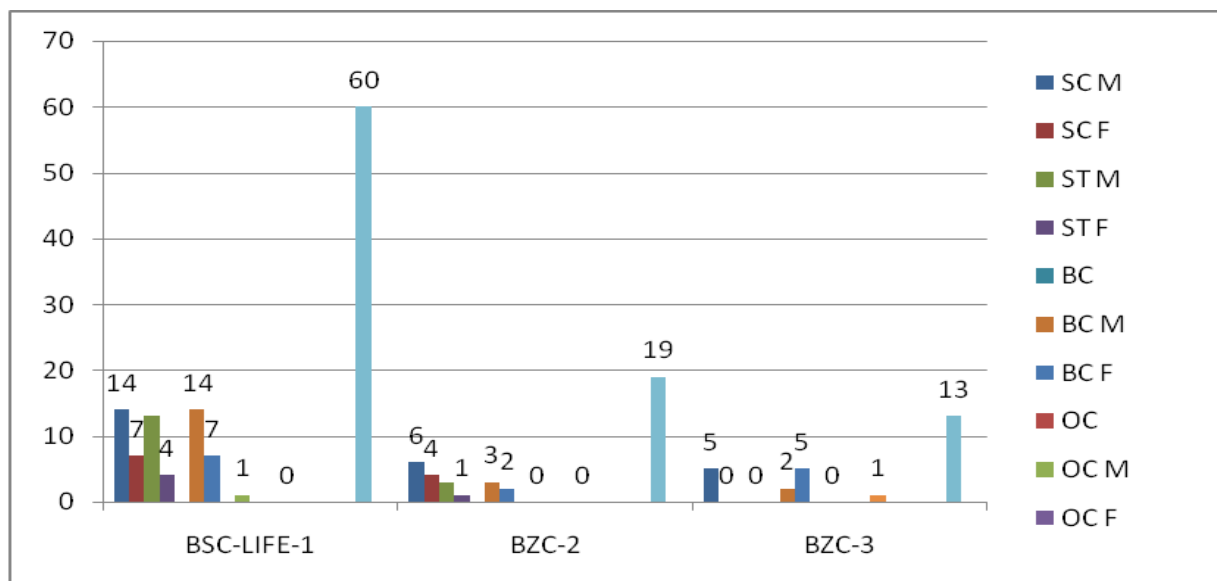
Graphical representation of the social status during 2019-20



Social status of the students 2020-2021

GROUP	SC		ST		BC		OC		Minority		PHC		TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	
BSC-LIFE-1	14	7	13	4	14	7	1	0	0	0	0	0	60
BZC-2	6	4	3	1	3	2	0	0	0	0	0	0	19
BZC-3	5	0	0	0	2	5	0	0	1	0	0	0	13

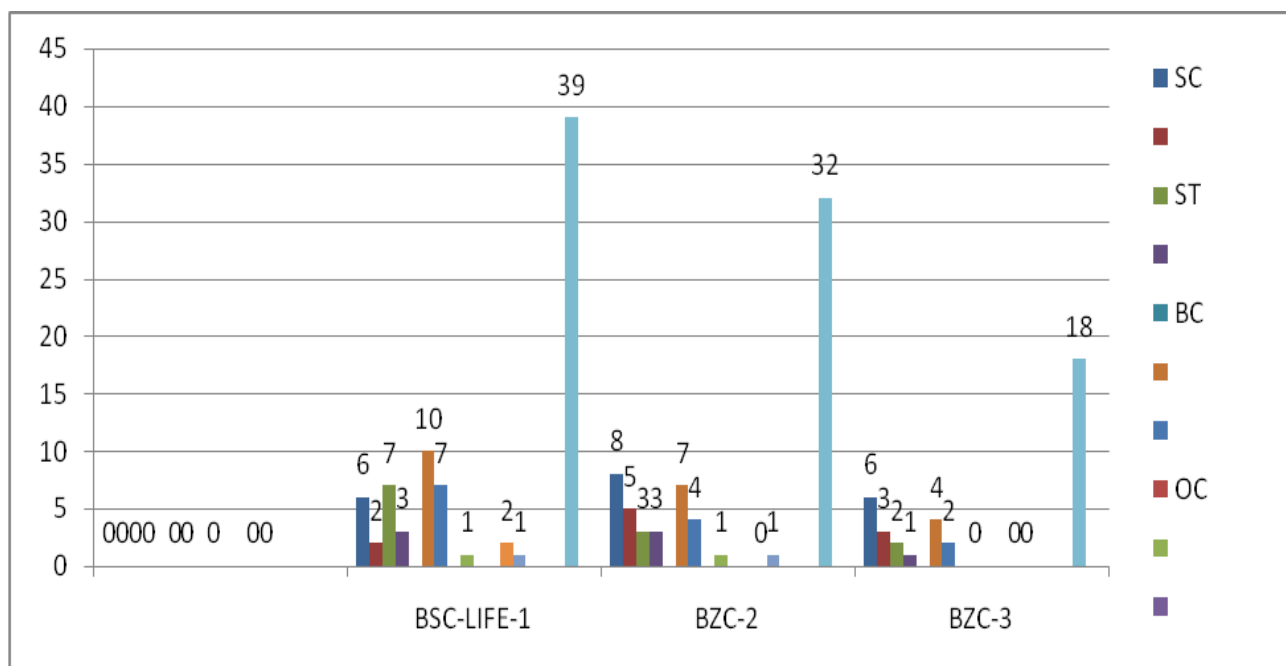
Graphical representation of the social status during 2020-21



Social status of the students 2021-2022

GROUP	SC		ST		BC		OC		Minority		PHC		TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	
BSC-LIFE-1	6	2	7	3	10	7	1	0	2	1	0	0	39
BZC-2	8	5	3	3	7	4	1	0	0	1	0	0	32
BZC-3	6	3	2	1	4	2	0	0	0	0	0	0	18

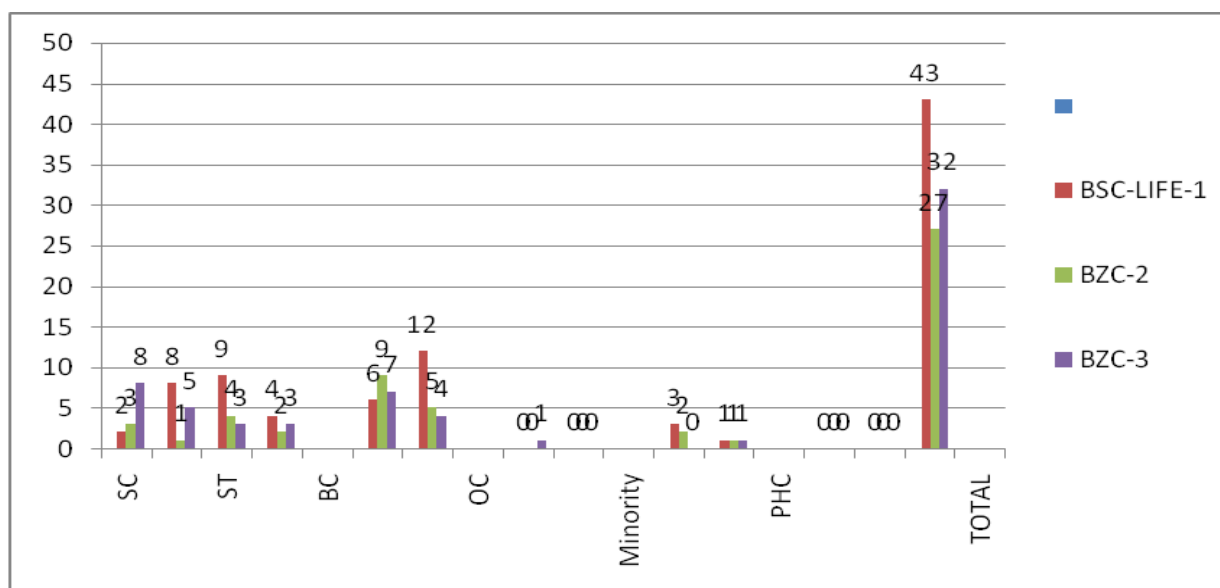
Graphical representation of the social status during 2021-22



Social status of the students 2022-2023

GROUP	SC		ST		BC		OC		Minority		PHC		TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	
BSC-LIFE-1	2	8	9	4	6	12	0	0	3	1	0	0	43
BZC-2	3	1	4	2	9	5	0	0	2	1	0	0	27
BZC-3	8	5	3	3	7	4	1	0	0	1	0	0	32

Graphical representation of the social status during 2022-23

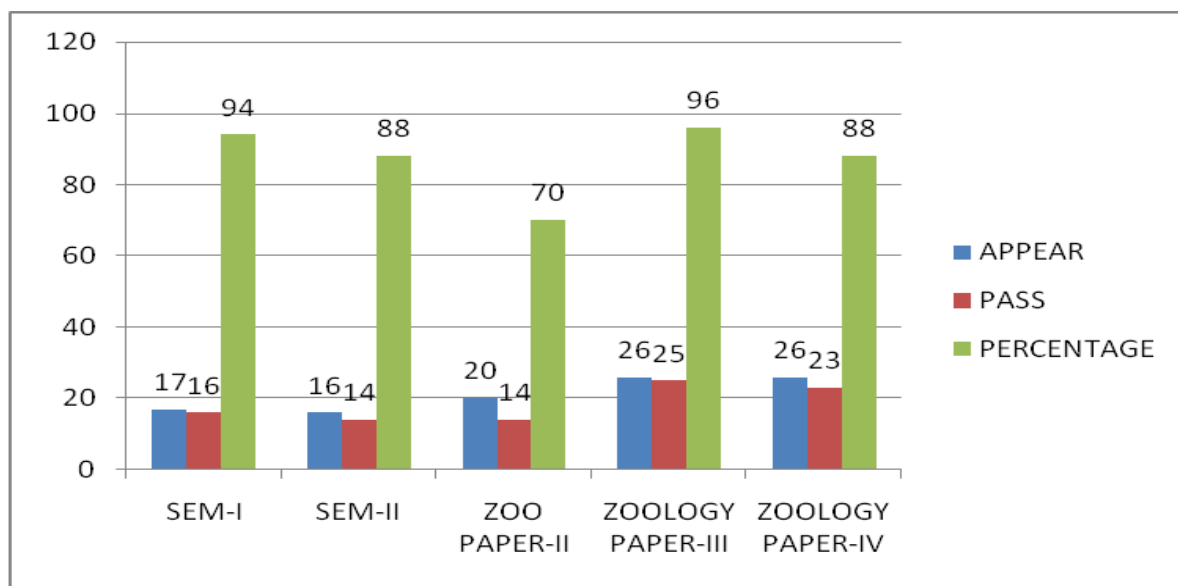


ANNUAL EXAMINATIONS PAPER WISE RESULT ANALYSIS

ACADEMIC YEAR 2016-17

PAPER	APPEARED	PASSED	PASS PERCENTAGE
Semester-I	17	16	94 %
Semester-II	16	14	88
II YEAR	20	14	70 %
III YEAR ZOO- 3	26	25	96 %
III YEAR ZOO- 4	26	23	88 %

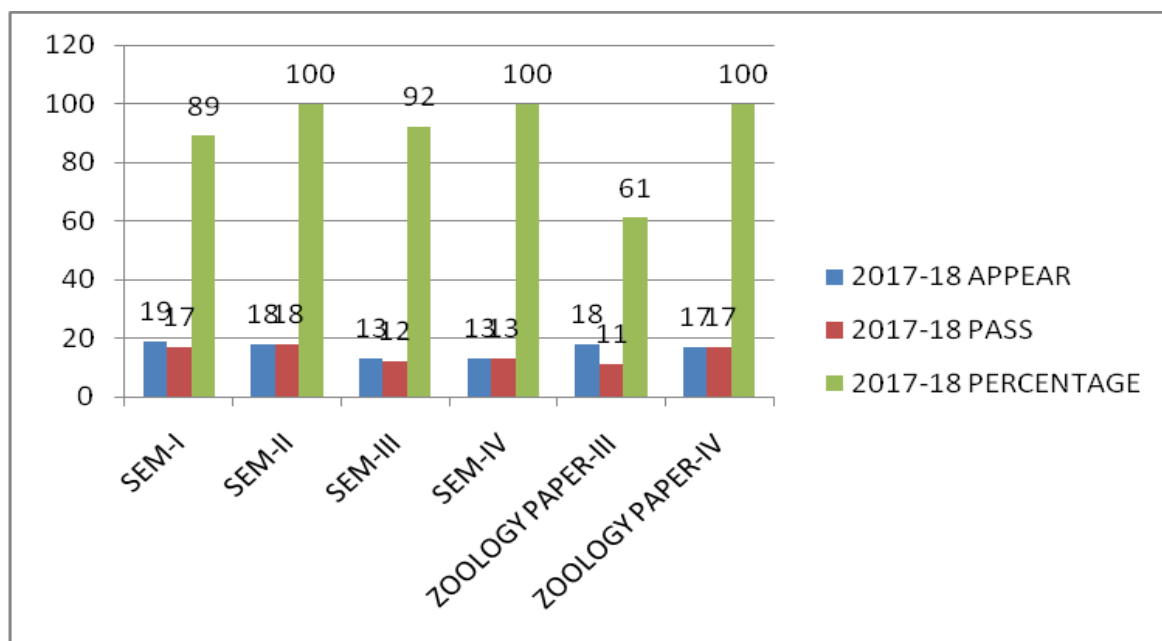
Graphical representation of the Results 2016-17



Result 2017-2018:

PAPER	APPEARED	PASSED	PASS PERCENTAGE
Semester-I	19	17	89 %
Semester-II	18	18	100 %
Semester-III	13	12	92 %
Semester-IV	13	13	100 %
III YEAR ZOO- 3	18	11	61 %
III YEAR ZOO- 4	17	17	100 %

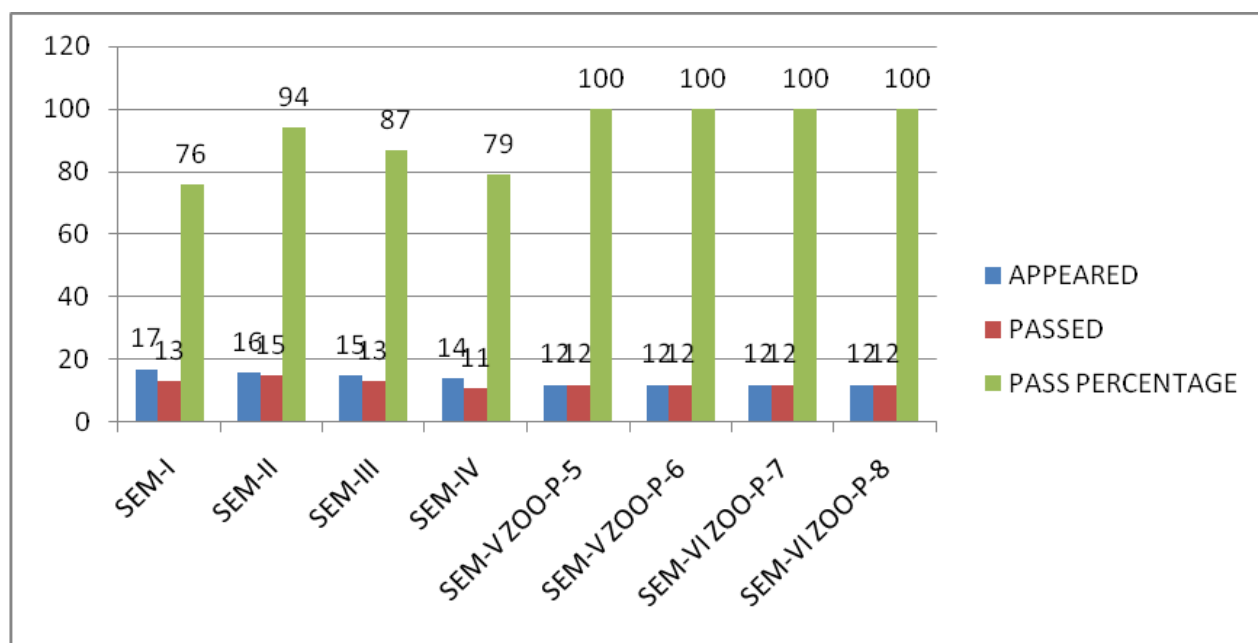
Graphical Representation of the Results 2017-18



RESULTS 2018-19

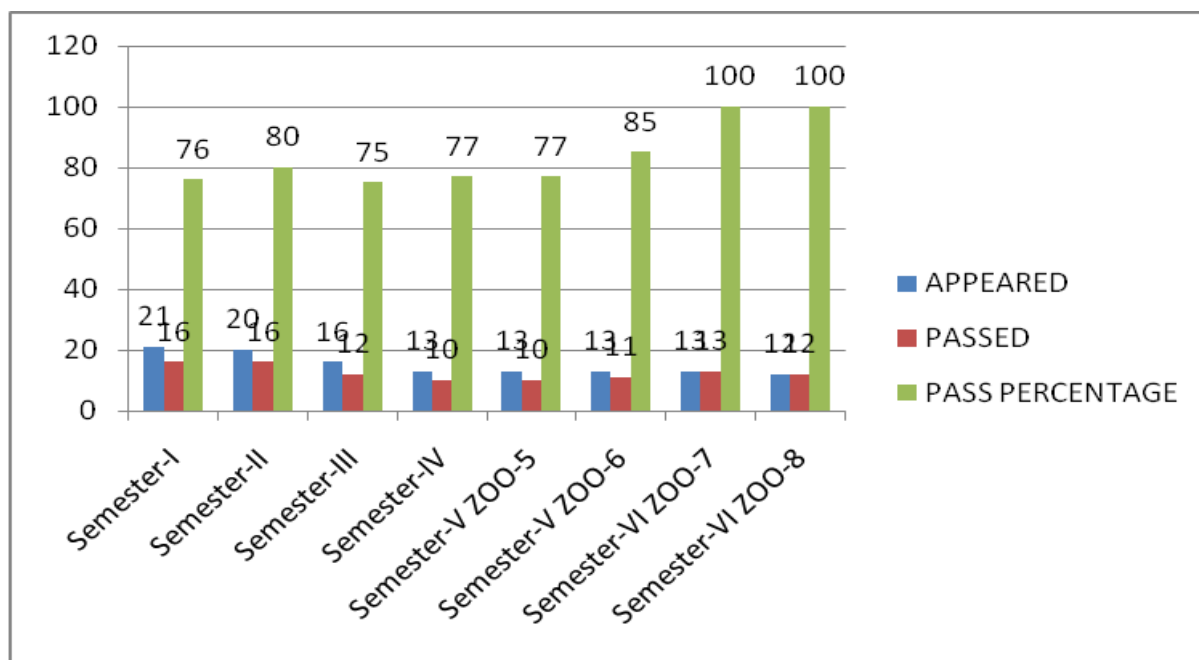
PAPER	APPEARED	PASSED	PASS PERCENTAGE
SEM-I	17	13	76 %
SEM-II	16	15	94 %
SEM-III	15	13	87 %
SEM-IV	14	11	79 %
SEM-V ZOO-P-5	12	12	100 %
SEM-V ZOO-P-6	12	12	100 %
SEM-VI ZOO-P-7	12	12	100 %
SEM-VI ZOO-P-8	12	12	100 %

Graphical representation of the Results 2018-19



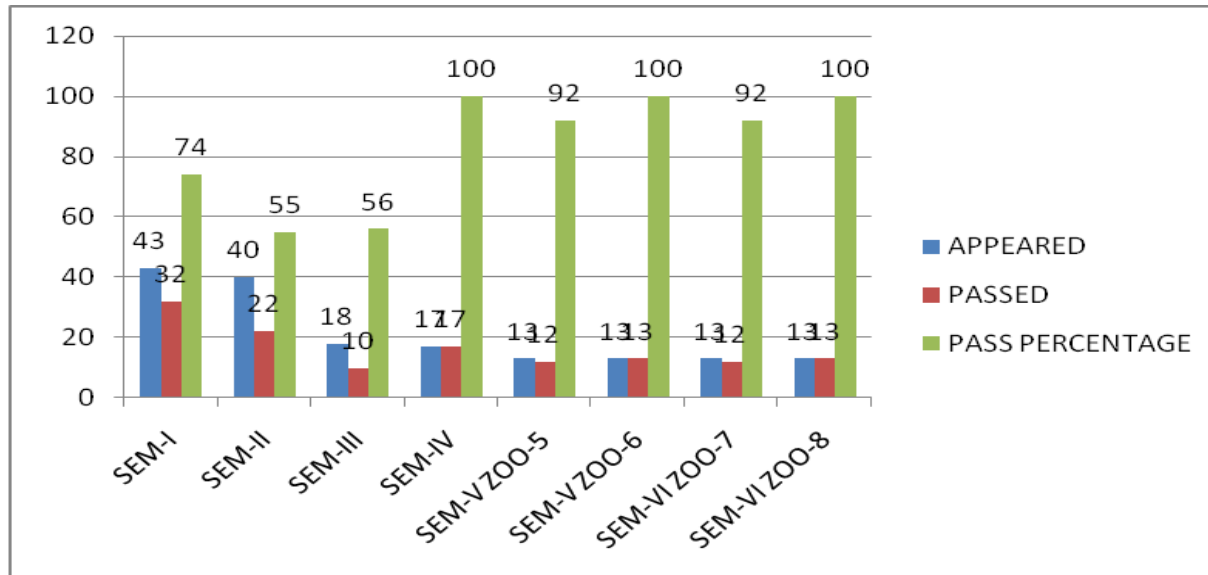
Result 2019-2020:

PAPER	APPEARED	PASSED	PASS PERCENTAGE
Semester-I	21	16	76 %
Semester-II	20	16	80 %
Semester-III	16	12	75 %
Semester-IV	13	10	77 %
Semester-V ZOO-5	13	10	77 %
Semester-V ZOO-6	13	11	85 %
Semester-VI ZOO-7	13	13	100 %
Semester-VI ZOO-8	12	12	100 %

Graphical representation of the Results 2019-20

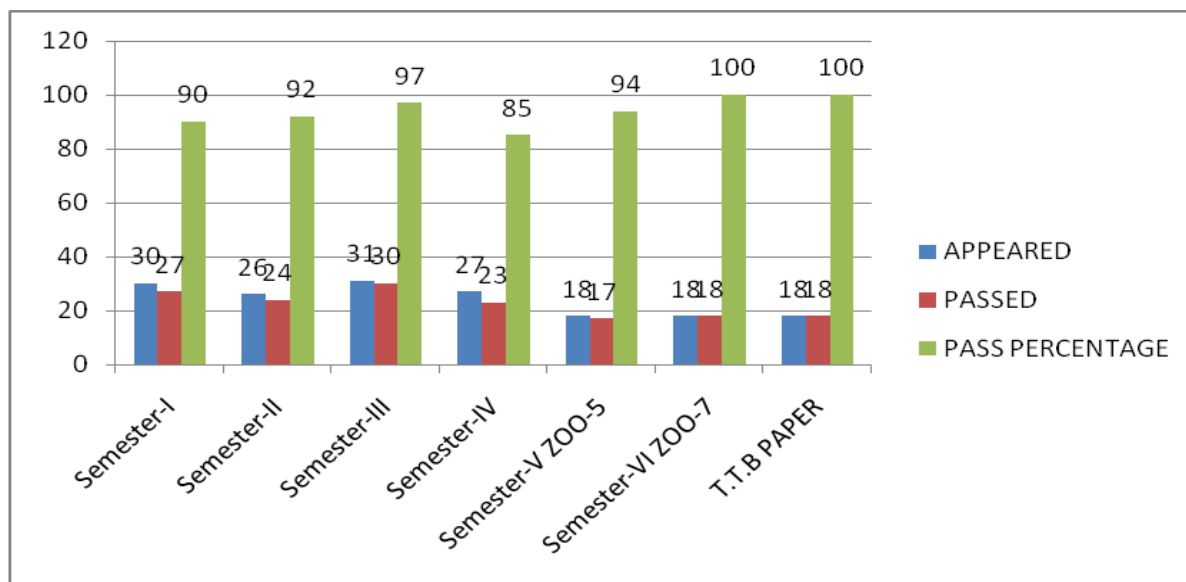
Result 2020-2021:

PAPER	APPEARED	PASSED	PASS PERCENTAGE
SEM-I	43	32	74 %
SEM-II	40	22	55 %
SEM-III	18	10	56%
SEM-IV	17	17	100 %
SEM-V ZOO-5	13	12	92 %
SEM-V ZOO-6	13	13	100 %
SEM-VI ZOO-7	13	12	92 %
SEM-VI ZOO-8	13	13	100 %

GRAPHICAL REPRESENTATION OF 2020-21 RESULTS

Result 2021-2022:

PAPER	APPEARED	PASSED	PASS PERCENTAGE
Semester-I	30	27	90 %
Semester-II	26	24	92 %
Semester-III	31	30	97 %
Semester-IV	27	23	85 %
Semester-V ZOO-5	18	17	94 %
Semester-VI ZOO-7	18	18	100 %
T.T.B PAPER	18	18	100 %



Criteria - 3

Research Consultancy and Extension

RESEARCH :

The faculty member may plan to submit the proposals for minor research projects.

- **Study projects:** To encourage the independent learning in addition to class room teaching some study projects are undertaken by the students. This helps the students to improve the writing skills and research culture. The bright students are selected and study projects are given to them.

Students Study Projects list

Academic year	Title of the project	Project done by	Class & Year
2016-17	Twins	Y.Vinod N.Blakrishna P.Shiva kumar Bhanuprakash Ravinder	III BZC
2016-17	Gestation periods of some mammals	All girls	III BZC
2016-17	Vitamins	All girls	I BZC
217-18	Identification of Blood Groups of Teaching & Non Teaching Staff of the College	G.SHIVA A.MOUNIKA U.KAVYA S.Ganesh PADMA	BZC-III YEAR

2018-19	Open Defecation & Health problems in India	s.kumar v.shireesha c.devi MD.Inthiyaz G.Mallesha J.Rajitha	BZC I YEAR
2019-20	Role of Government in public health: Current scenario in India and future scope	S.Kumar B.Preethi B.Sai Leela J.Rajitha A.Narender V.Prasanth	BZC I&II YEARS
2020-21	Identification of Blood Groups of BSc Life science Students I years	S.Kumar C.Devi J.Rajitha A.Kavitha G.Lalitha	BZC-III YEAR
2021-22	Identification of Zoo planktons in college small pond	A.Narender T.Ramakrishna G.Anil B.Sai Leela P.Jayamma	BZC III YEAR
2022-23	Identification of Blood Groups of BSc Life science Students II years	Fouziya Mounika Deva kumar Saidu babu M.Srinu	BZC II YEAR



A Study Project on Identification the zoo planktons in college small pond on 2021-22 year.



Blood groups identification work shop/project conducted by Dept. of zoology 2020-21.



Blood groups identification work shop/project conducted by Dept. of zoology 2020-21.



A STUDY PROJECT ON IDENTIFICATION OF BLOOD GROUPS

SRI UMA MAHESWARI GOVT DEGREE COLLEGE;

KONDANAGULA, NAGARKURNOOL (DIST).



CERTIFICATE

This is to certify that the following BSc.BZC I SEMESTER students have been done by a project on *OPEN DEFECACTION AND THE HEALTH PROBLEMS IN INDIA* as a part of JIGNASA student study project for the academic year 2018-2019 under the supervision of B.JohnBabu Lect. In Zoology, SUM GDC Kondanagula.

S.NO	Name of the student	Course	Semester
1	S. Kumar	BZC E/M	I Semester
2	V.Shireesha	BZC E/M	I Semester
3	Devi.C	BZC E/M	I Semester
4	M.L.Inthiyaz	BZC T/M	I Semester
5	G.Mallush	BZC T/M	I Semester
6	J. Rajitha	BZC E/M	I Semester

Hence certified

GUIDE TEACHER
B.JOHN BABU
LECT. IN ZOOLOGY
SUM GDC KONDANAGULA

SRI UMA MAHESWARI GOVT DEGREE COLLEGE

KONDANAGULA, NAGARKURNOOL (DIST).



CERTIFICATE

This is to certify that the following BSc.BZC I& III SEMESTER students have been done by a project on *Role of Government in public health: Current scenario in India and future scope.* As a part of JIGNASA student study project for the academic year 2019-2020 under the supervision of B.John Babu Lect. In Zoology, SUM GDC Kondanagula.

S.NO	Name of the student	Course	Semester
1	S. Kumar	BZC E/M	III Semester
2	B.PREETHI	BZC E/M	I Semester
3	B.SAI LEELE	BZC E/M	I Semester
4	J. RAHITHA	BZC T/M	III Semester
5	A.NARENDER	BZC T/M	I Semester
6	V. PRASANTH	BZC E/M	I Semester

Hence certified

GUIDE TEACHER
B.JOHN BABU
DEPT. OF ZOOLOGY
SUM GDC KONDANAGULA

Project on Open Defecation & Health problems In India 2018-19



Project on Role of Government in public health: Current scenario in India and future scope-2019-20





A STUDY PROJECT ON “IDENTIFICATION OF BLOOD GROUPS IN TEACHING & NON TEACHING STAFF.” 2017-18.



A STUDY PROJECT ON “IDENTIFICATION OF BLOOD GROUPS IN BSC LIFE SCIENCE STUDENTS” 2022-23.

The Department of Zoology Faculty Members Involved in Various FDP/Work Shops For the Improving their Academic and Research Knowledge.

S.NO	FDP TITLE	PLACE/CONDUCTED BY	YEAR
1	A One Week FDP on Emerging Trends in Science Usages of Research Tools and Techniques	Vadhaman College of Engineering Hyderabad	15.06.2020 to 20.06.2020
2	A Five Day FDP on Philosophy of Happy Life	Satya Institute of Technologies & Management,	12.06.2020 to 16.06.2020.
3	3 Day National Level FDP on Various Research Opportunities in Electronics & Communications	RISE Krishna Sai Prakasham Institute, ONGOLE	01.07.2020 to 03.07.2020.
4	A One Week FDP on Sustainability of Institution of Higher Learning in the Context of COVID-19 Challenges & Perspectives	Govt Degree College, Narsimpet	06.11.2020 to 11.07.2020
5	One Day FDP on Innovations & Intellectual Property Rights	APC MahaLaxmi College for Women, Thoothukudi	06.07.2020
6	A One Week FDP on Higher Education Requirements and Expectations	College of Engineering. Osmanabad	08.07.2020 to 12.07.2020
7	3 Day FDP on Responsibilities of Microbiologists in Combating Pandemic Diseases	KS Rangaswamy College of Arts & Science, Thiruchengode	08.07.2020 to 10.07.2020
8	Two Week National Level FDP on Hurdles and Solutions in Research Avenues	TARA Government Degree College, Sangareddy	13.07.2020 to 26.07.2020
9	A One Week FDP on Innovations in Higher Education A Teaching Learning Approach	Government Degree College, Mahabubabad	13.07.2020 to 18.07.2020
10	Awareness Workshop NIRFINDIA Rankings - 2021 for Higher Education Institutions	Collegiate Education and Technical Education Dept, Govt of Telangana	18 th -19 th , Jan-2021
11	Transformation through NAAC Accreditation Process, a National Level Workshop for higher educational Institutions	Collegiate Education and Technical Education Dept, Govt of Telangana	21 st - 22 nd June-2021
12		Government Degree College, Parkal, Telangana	

FDP CERTIFICATES

RISE Krishna Sai Prakasam Group of Institutions
 (Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada & Accredited by "NBA" for B.Tech. in FORESCIENCE & ME)
 NH 16, Vallur- 523272, Ongole, Prakasam District, Andhra Pradesh. www.risekrishnasai.org

Department of Electronics and Communication Engineering

Certificate ID: QFDIHS-CE000073

CERTIFICATE OF PARTICIPATION
 This is to certify that
Mr. B. JOHNBABU, Lecturer in Zoology
 of
SUM GDC Kondanagula
 has actively participated in Three day National level Online FDP on **"Various Research Opportunities in Electronics and Communication Engineering"** organized by the Department of Electronics and Communication Engineering, RISE Krishna Sai Prakasam Group of Institutions, Ongole in association with ISTE chapter from 01/07/2020 to 03/07/2020.

Mr. K. Suresh Babu
Coordinator
Dr. Ch. Venugopal Reddy
Professor & HOD
Dr. A.V. Bhaskara Rao
Principal

Terna Public Charitable Trust's
College of Engineering, Osmanabad
 Approved by AICTE, New Delhi and Affiliated to Dr. B.A.M.U., Aurangabad and Dr. B.A.U., Lonere (M.S.)

One Week Online Faculty Development Program on
"Higher Education 2020: Requirements and Expectations"

Certificate Of Participation
 This is to certify that
Mr. B. JOHNBABU
 from
 SUM GDC Kondanagula
 has participated in One Week Online Faculty Development Program on "Higher Education 2020: Requirements and Expectations" organised by Internal Quality Assurance Cell (IQAC), TPCT's College of Engineering, Osmanabad from 8th July to 12th July, 2020.

Dr. P. D. Paikrao
Co-coordinator
Dr. S. N. Holambe
Co-ordinator
Prof. U. A. Maske
IQAC Coordinator
Dr. V. V. Mane
Principal

SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT
 GAJULAREGA, VIZIANAGARAM, ANDHRA PRADESH, INDIA
 Email: sitam@sitam.co.in, website: www.sitam.co.in, FB: sitam.gyp

CERTIFICATE OF PARTICIPATION
B. JOHNBABU, Lecturer
 in zoology of
 SUM Govt Degree College, Kondanogula
 Participated in the Five Day online Faculty Development Program on
"Philosophy for Happy Life"
 conducted from 12th June -16th June 2020

Dr. K. SREELATHA
COVENER
Dr. M. SASIBHUSHANA RAO
DIRECTOR-SITAM
Dr. D.M. RAMMURTHY
PRINCIPAL - SITAM

TARA GOVERNMENT COLLEGE
 (Autonomous)
 SANGAREDDY, TELANGANA, INDIA
 ISO Certified 9001:2015 College || Accredited with "B" grade by NAAC || Affiliated to Osmania University

Certificate of Participation

This is to certify that Mr./Mrs./Miss./Dr. B. JOHNBABU, Lecturer in Zoology from SUM Govt. Degree College, Kondanagula, Kondanagula has participated in Two Week National Level Online Faculty Development Programme on **"Hurdles and Solutions in Research Avenues"** from 13.07.2020 to 26.07.2020 organised by Department of Computer Science and Applications, TARA GOVERNMENT COLLEGE(A), SANGAREDDY, TELANGANA STATE.

Dr. S. Nagaraj
Co-Convener
Dr. N. Netha
Convener
Dr. Krishna Murthy
Principal

VARDHAMAN COLLEGE OF ENGINEERING
 An Autonomous Institution, Hyderabad, 501218

Certificate of Participation

This certificate is presented to **Mr. B. JOHNBABU**, Palamuru University, SUM Govt Degree College, Kondanagula for participating in One Week Faculty Development Program on "Emerging Trends in Sciences - Usage of Research Tools and Techniques", organised by Department of Freshman Engineering, Vardhaman College of Engineering, Hyderabad, during 15th - 20th June, 2020. Your participation in this event is highly appreciable.

The participants gained knowledge on the following.

- ◆ COVID - 19, Emerging Environmental Concern
- ◆ Endnote for Academic Writing
- ◆ Introduction to Mathematica
- ◆ MENDELEY: A free Reference Manager
- ◆ Analysis of Natural Products using Mass Spectrometry
- ◆ Smart Materials with Huge Potential

Dr. Sreeddy
Co-ordinators
(Dr. Siddhartha Marjapati)
(Dr. Nilakantha Tripathy)
Dr. S. Srinivas Reddy
Convener & HOD (H&S)
(Dr. D. Srinivas Reddy)
Dr. S. Sai Satyanarayana Reddy
Principal
Dr. K. Mallikarjuna Babu
CEO & Director

A.P.C. MAHALAXMI COLLEGE FOR WOMEN
 Reaccredited by NAAC with "B" Grade
 Thoothukudi-628002

Certificate of Participation
 This is to certify that
B. JOHNBABU
 Lecturer in Zoology, SUM GDC Kondanagula
 attended the Faculty Development Programme on
"Innovation in Intellectual Property Rights"
 conducted on
July 6, 2020
 jointly organized by
 the PG Department of Chemistry & the APCW Research Forum

ADH714-CE000102

Dr. B. Shanmuga Priya
ORGANIZER
Dr. H. Kothala Subathra Christy
COORDINATOR/HOD
Dr. N. Meenakanti
PRINCIPAL

FDP CERTIFICATES

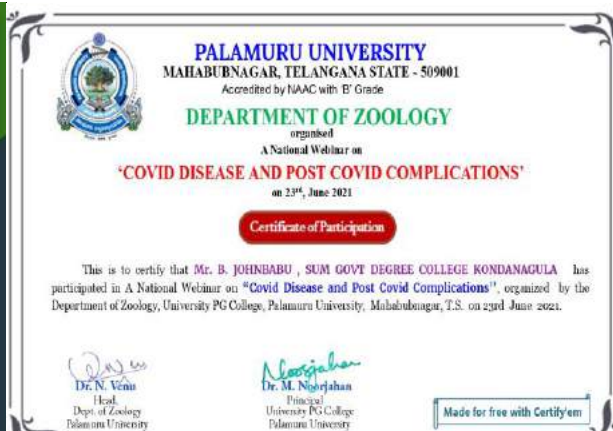


Work shops / Webinars

S.NO	Name of the Work shop/ Webinars	Place/Organized by	year
1	Attended 2 Day National Level Work shop on AIVA	Nizam College,(A) Osmania University, Hyderabad	27.02.2018 to 28.02.2018
2	Attended 2 Day Work Shop on U.G CBCS Curriculum in Life Sciences	Dr.BRR.Govt Degree College, Jadcherla,mahabubnagar.Dist	14.07.2017 to 15.07.2017
3	UGC-NAAC Accreditation Stratagies in Institutions	MES College, Erumely, Kerala	16.06.2020
4	National webinar on International Yoga Day	University of Hyderabad, Telanganna	21.06.2021
5	National webinar on Food& Nutritional Security in Changing Claimate	Dr.BRR Govt Degree College, Jadcheral, Telangana	26.03.2021
6	National webinar on COVID DISEASES AND POST COVID COMPLICATIONS	Dept.of Zoology, Palamuru University, Mahabubnagr	23.06.2021
7	National webinor on Fisheries Self Employment	Dr.BRR Govt Degree College, Jadcheral, Telangana	29.06.2021

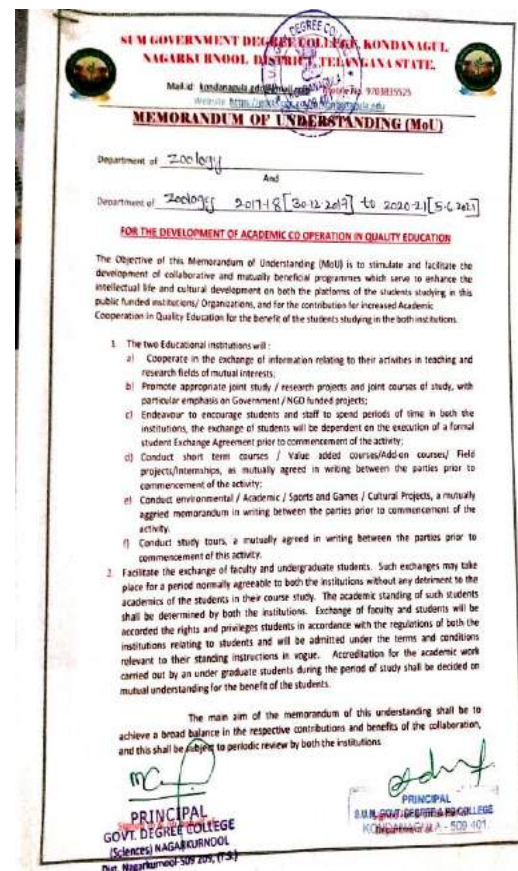
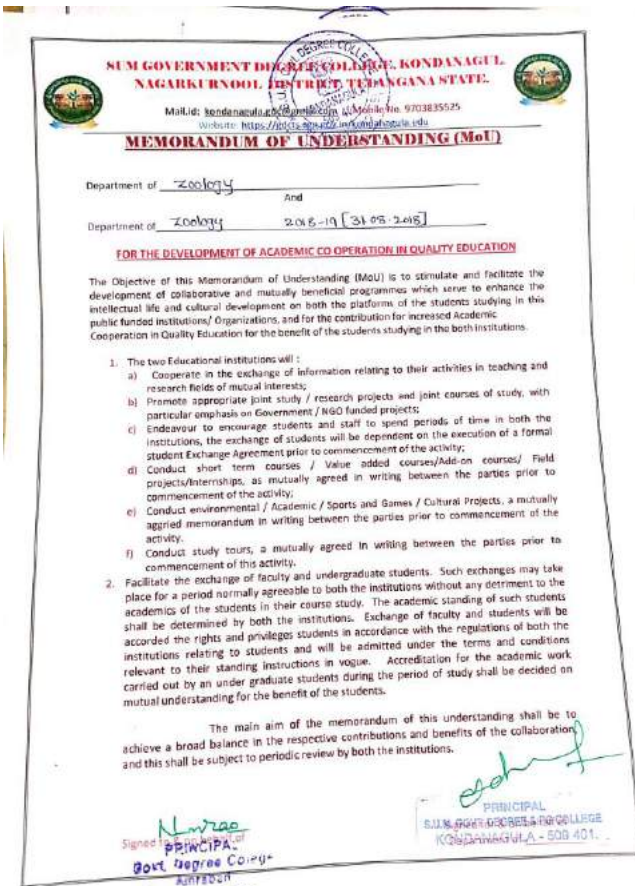


WORK SHOP/WEBINARS CERTIFICATES

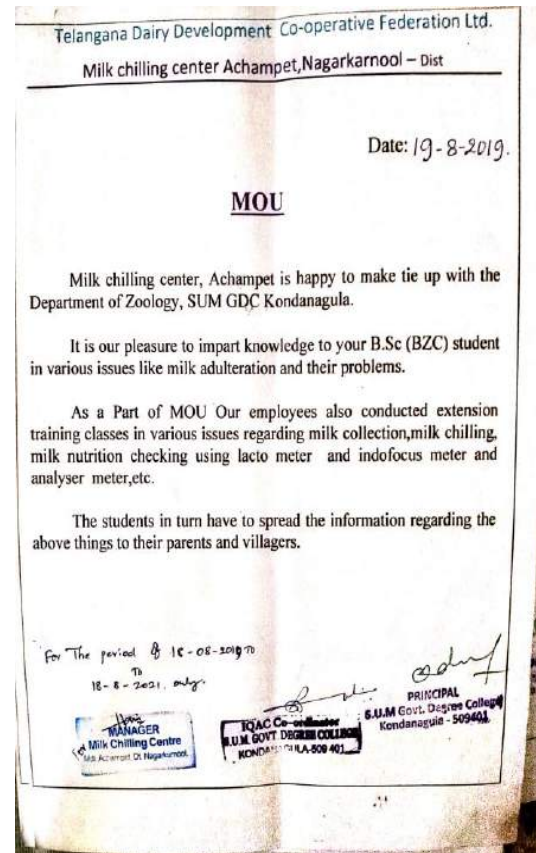
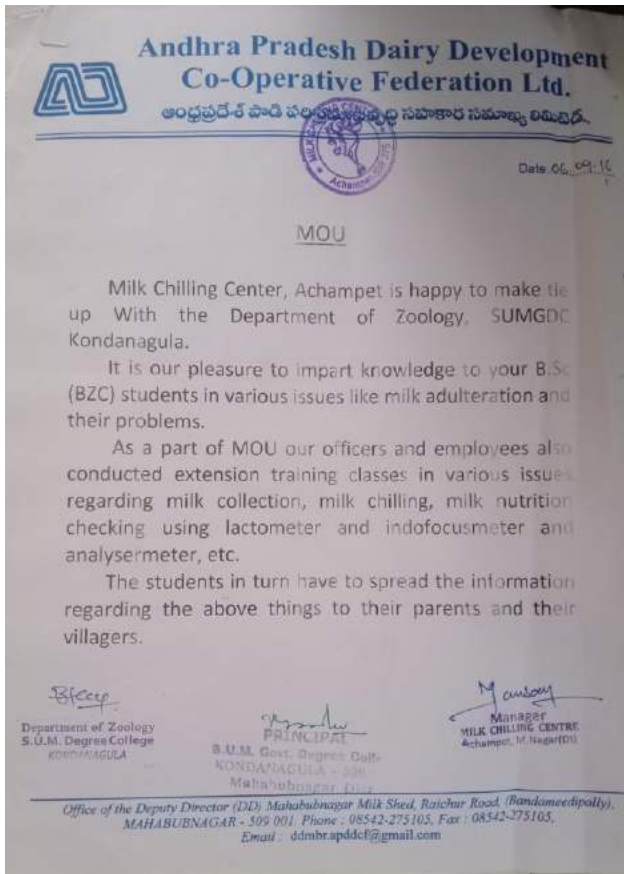


MOU's

Department of Zoology is having an **MOU** with **"MILK CHILLING CENTER, ACHAMPET** since 2016. As per the **MOU** the students of our College visit **MILK CHILLING CENTER, ACHAMPET** regularly and the Officers of Milk Chilling Centre Achampet to aware and give the knowlwdge on Milk Products, Milk adultration, Processing of Milk at Milk Chilling Center and other related toipcs to the students.



MOUs WITH GDC AMRABAD & GDC NAGARKURNOOL



MOU WITH MILK CHILLING CENTRE, ACHAMPET

CRITERIA: IV

IV. Infrastructure and Learning Resources

- Central library is being used by the students to take the books. In addition to this we have departmental library with **80 books** including academic books and reference books. These books are available to the students with the help of our faculty members.
- The department maintains previous question papers, question banks for student's reference.
- The department has one computer system with internet facility.
- Staff room, Departmental lab along with museum.
- Slides, Specimens, Microscopes, Models, bio-visual charts(84), OHP(1). Subject related Ppts, Youtube Lessons.
- Students are supplied with study material supplied by the faculty

• BIO VISUAL CHARTS IN ZOOLOGY DEPARTMENT

NON CHORDATES			
S.NO	NAME OF THE BIOVISUAL CHART	NO's	PHYLUM
1	Paramecium Structure	1	PROTOZOVA
2	Plasmodium	1	
3	Pathogenic Protozovans	1	
4	Canal System in Sponges	2	POROFERA
5	Sycon Development System	1	
6	Aurilia	1	CNEDERIA
7	Obelia colony	2	
8	Faschiola Hepatica	1	PLATI HELMINTHIS
9	Faschiola Hepatica Reproduction	2	
10	LEECH DIGESTIVE SYSTEM	1	ANNELIDA
11	LEECH EXCRETORY&REPRODUCTIVE ORGANS	1	
12	NERIS TRANSEVERSE SECTION	1	
13	APENDAGES OF PRAWN	1	
14	PRAWN DIGESTIVE SYSTEM-2	2	ARTHROPODA
15	PRAWN RESPIRATORY&CIRCULATORY SYSTEM-2	2	
16	PILA SHELL&MANTLE CAVITY	1	MOLLUSCA
17	ASTERIAS EXTERNAL FEATURES ASTERIAS DEVELOPMENT	1	ECHINODERMATA
18	ASTERIAS WATER VASCULAR SYSTEM	1	

CHORDATES

S.NO	NAME OF THE BIOVISUAL CHART	NO's	PHYLUM
19	HERDMANIA EXTERNAL CHARACTERS	1	PROTO CHORDATA
20	HERDMANIA BLOOD VASCULAR SYSTEM	1	
21	HERDMANIA DEVELOPMENT&RETROGRESSIVE META MORPHOSIS	1	
22	AMPHIOXUS DEVELOPMENT-2	2	
23	AMPHIOXUS DIGESTIVE SYSTEM	1	
24	AMPHIOXUS EXTERNAL FEATURES	1	
25	AMPHIOXUS CIRCULATORY & EXCRETORY SYSTEM	1	
26	SCOLIODON CRANIAL NERVES	1	PISCES(FISHES)
27	FROG DIGESTIVE SYSTEM	1	AMPHIBIANS
28	FROG RESPIRATORY SYSTE	1	
29	FROG EAR&EYE	1	
30	FROG NERVOUS SYSTEM-3	3	
31	FROG ARTERIAL SYSTEM	1	
32	FROG VENOUS SYETEM	1	
33	VARANUS APPENDICULAR SKELETON	1	REPTILES
34	LIZARD ARTERIAL SYSTEM	1	
35	LIZARD VENOUS SYSTEM	1	
36	FEATHER STRUGTURE AND DEVELOPMENT	1	AVES(BIRDS)
37	FOWL VERTIBRAE	1	
38	PIEGON ARTERIA SYSTEM	1	
39	PIEGION VENOUS SYSTEM	1	
40	ARCHAEOPTERYX	1	
41	DEVELOPMENT OF CHICK 20-30 HOURS EMBRYO	1	
42	DEVELOPMENT OF CHICK 83 HOURS EMBRYO	1	
43	DEVELOPMENT OF CHICK GASTRULATION	1	
44	PIEGON URINO GENITAL SYSTEM	1	
45	HUMAN EYE	1	MAMMELIA
46	RABIT APPENDICULAR SKELITON	1	
47	RABIT HEART	1	

CELL BIOLOGY

48	PRO KORYOTIC&EU KORYOTIC CELLS	1	CELL BIOLOGY
49	CELL MEMBRANE AND CELL WALL	1	
50	ENDOPLASMIC RETICULUM	1	
51	GOLGI COMPLEX	1	
52	RIBOSOMES, LYSOSOMES	1	
53	NUCLEUS	1	
54	CHROMOSOMES	1	
55	MITOSIS IN ANIMALS	1	
56	MEIOSIS IN ANIMAL 1 ST DIVISION	1	
57	MEIOSIS IN ANIMALS 2 ND DIVISION	1	
58	MITOCHONDRIAN	1	

EMBRYOLOGY/ DEVELOPMENTAL BIOLOGY			
S.NO	NAME OF THE BIOVISUAL CHART	NO's	PHYLUM
59	PLACENTA TYPES, HISTOLOGICAL	1	EMBRYOLOGY
60	PLACENTA TYPES, DISTRIBUTION OF VILLI	1	
ECOLOGY			
62	NITROGEN CYCLE	1	ECOLOGY
63	POND ECOSYSTEM	1	
64	FOOD CHAIN	1	
65	FOOD WEB	1	
ZOO GEOGRAPHY			
67	ZOO GEO GRAPHICAL DISTRIBUTION&REALMS	1	ZOO GEOGRAPHY
OTHER BIOVISUAL CHARTS			
69	HEART COMPARITIVE STUDY	1	
70	BRAIN COMPARITIVE STUDY	1	
71	VERTIBRATE MALE URINO GENITAL SYSTEM	1	
72	VERTIBRATE FEMALE URINOGENITAL SYSTEM	1	
73	E.COLI	1	
74	TYPHOID	1	
75	DIARHOEA	1	
76	AIDS	1	
77	ENDOCRINE GLANDS , STRUCTURE AND FUNCTION	1	
78	MUTATIONS	1	
79	TUBERCULOSIS	1	
80	FILARIASIS	1	
81	EVOLUTION OF AROTIC ARCHES	1	
82	LEPROSY	1	
83	GENITIC CODE	1	
84	COLOUR BLINDNESS&HEMOPHILIA	1	

MUSEUM SPECIMENS IN ZOOLOGY DEPARTMENT

S.NO	NAME OF THE SPECIMEN	NO's	PHYLUM
1	SPONGILLA	1	PORIFERA
2	EUSPONGIA	2	
3	SYCON	2	
4	PHYSALIA	2	CNEDERIA
5	VELELLA	1	
6	CIONA	1	
7	CORALLIUM	1	

8	GORGONIA	1	
9	AURILIA	2	

S.NO	NAME OF THE SPECIMEN	NO's	PHYLUM
10	PENNATULA	2	
11	OBELIA	1	
12	RIZOSTOMA	1	
13	MILLIPORA	1	
14	TUBIPHORA	1	
15	ADAMSIA	2	
16	PORPITA	2	
17	PLANERIA	2	HELMINTHIS
18	TENIA SOLIUM	1	
19	DRACANCULUS	1	
20	SIPUNCULUS	1	
21	ASCARIS-MALE	2	
22	ASCARIS-FEMALE	2	
23	HOOK WORM, ENCHYLOSTOMA	2	
24	FASHIOLA HEPATICA	2	
25	NEERIS	2	ANNELIDA
26	APHRODITE	1	
27	EARTH WORM	1	
28	HETIRO NERIS	1	
27	HIRUDUNERIA (LEECH)	3	
29	SACCULINA	2	ARTHROPODA
30	LIMMULUS	1	
31	ARENIA (SPIDER)	1	
32	COCKROACH	1	
33	BUTTER FLY	1	
34	SILK WORM	1	
35	JULUS	2	
36	SCOLOPENDRA	2	
37	PERIPETUS	1	
38	CANCER	2	
39	BELANUS	1	
40	SPIROSTREPTUS	1	
41	BUTHUS	2	
42	PALEMON	2	

43	LEPAS	2	
44	CRAY FISH	1	
45	APIS(HONEY BEE)	1	
46	LOCUST	2	ARTHROPODA
47	LEPISM	1	
48	MANTIS	1	
49	CENTIPID	1	
50	PENIUS (MERINE)	1	
51	CHITON	1	MOLLUSCA
52	UNIO	2	
53	SNAIL	1	
54	DENTELIUM	1	
55	TERIDO	1	
56	SEPIA	2	

S.NO	NAME OF THE SPECIMEN	NO's	PHYLUM
57	OCTOPUS	2	
58	NATILLUS	1	
59	HELIX	1	
60	LALIGO	2	
60	PERAL OIESTER	1	
62	MUREX SHELL	1	
63	PILA	2	
64	PECTIN	1	
65	PINCTADA	1	
66	MITILUS	1	
67	OPHIOTHRIX	2	ECHINODERMATA
68	ECHINUS	2	
69	HEART URCHIN	1	
70	CLYPEASTER	2	
71	CUCUMERIA	2	
72	ANTEDON	1	
73	STAR FISH	2	
74	CRINOID	1	
75	HOLOTHURIA	1	
76	BELANO GLOSUS	1	HAEMICHORDATA
77	HERDMANIA	1	PRORCHORDATA
78	AMPHIOXUS	1	

79	PETROMYZON	1	CYCLOSTOMATA
80	MYXINE	1	
81	PRISTIS	1	FISHES
82	TORPHIDO	2	
83	PLEURONECTES	2	
84	HIPPOCAMPUS& HIPPOCAMPUS DRY	1+1=2	
85	ANABAS	2	
86	ANGUILLA	1	
87	EXOCETUS	2	
88	CHANA	1	
89	ECHINIES	1	
90	TRYGON	1	
91	CATLA	2	
92	LABEO	2	
93	CIRHENUS MRUGELA	1	
94	CLARIOUS	2	
95	NOTOPTERUS	2	
96	LUNG FISH	1	
97	SCOLIODON	2	
98	HETERONUSTUS	1	
99	ECHTTYOPHIS	1	AMPHIBIANS
100	RANA, BUFO	1+1	

S.NO	NAME OF THE SPECIMEN	NO's	PHYLUM
101	RACOPHORUS	1	
111	HYLEA	1	
112	SALAMANDER	1	
113	AMMOCETUS LARVAE	1	
114	EXOLOTOL LARVAE	1	
115	DRACO	1	REPTILIA
116	GECO	1	

117	UROMASTIX	1	
118	TESTUDO	1	
119	TRIANYX	1	
120	CROCODILE	1	
121	PTEROPUS	1	MAMMALIA
LIST OF MODELS IN ZOOLOGY LAB			
1	PSITTACULA	2	BIRDS
2	ALCIDO	2	BIRDS
3	PACER DOMESTICUS	2	BIRDS
4	WOOD PEKKER	1	BIRDS
5	KORACIOUS	1	BIRDS
6	MANIS	1	MAMMALIA
7	LORIS	2	MAMMALIA
8	DIDELPHIS (APOSUM)	1	MAMMALIA
9	MACROPUS	1	MAMMALIA
10	PAVO	2	BIRDS
11	TACHYGLOSUS	1	MAMMALIA
12	URO MASTIX	1	REPTILIA
13	CORVOUS	1	BIRDS
14	CROCODILE	1	REPTILIA
15	FUNAMBULUS	1	MAMMALIA
16	HUMAN TONGUE	1	Physiology
17	HUMAN SKIN	1	Physiology
18	HUMAN DIGESTIVE SYSTEM	1	Physiology
19	HUMAN SKELETAL SYSTEM	1	Physiology
20	HUMAN RESPIRATORY SYSTEM	1	Physiology
21	HUMAN CIRCULATORY SYSTEM	1	Physiology
22	HUMAN LUNGS	1	Physiology

LIST OF EQUIPMENTS IN ZOOLOGY LAB

S.NO	NAME OF THE EQUIPMENT	NO's
1	Microscopes-35	35
2	Dissection Microscopes-7	7
3	Over Head Projector with Screen-1	1
4	Slide Cabinet-1000 Capacity-1	1
5	Slide Cabinet 100 Capacity-1	1
6	ANIMAL Bucketts-3	3
7	Charles Darwin-1	1
8	Gregor Johan Mendal-1	1
9	Alexander Fleming-1	1
10	Lamaark	1
11	Aristotil	1
12	Binacular Microscope-1	1
13	Rearch Microscope-1	1
14	Chart Cabinet 100 Capacity-1	1
15	Digital Photo Electrical colorimeter-1	1
16	Stop clock-5	5
17	Slide Projecter-1	1
18	B.P Apparatus Normal-2	2
19	B.P Apparatus Digital-1	1
20	GlucO Meter-3	3
21	Binocular Dissecting Microscope-3	3
22	Computer (DELL) -1	1
23	Electronic Chemical Balance-1	1
24	Chemical Balance -1	1
25	Slide Adjustment-2	2
26	Micro Pippets-2	2
27	Burate Stnds-40	40
28	Dissecting Trays Big-30	30
29	Dissection Trays Small-30	30
30	PH METER DIGITAL	1

LIST OF CHEMICALS

S.NO	CHEMICAL NAME	S.NO	CHEMICAL NAME	SNO	CHEMICAL NAME
1	Gelatin powder	7	Sodium Citrate	13	Sodium Bicarbonate
2	sodium Hydroxide Pillets	8	Uric Acid Reagent	14	Biureate Reagent
3	Ammonia solution	9	Millons Reagent	15	Failling Reagent
4	Sodium Nitrate	10	Necellers Reagent	16	Benedict Reagent
5	Sucrose	11	Phynoptalin Indicator	17	Universal indicator
6	Dextrose	12	Methyl Orange	18	Antigen Kit



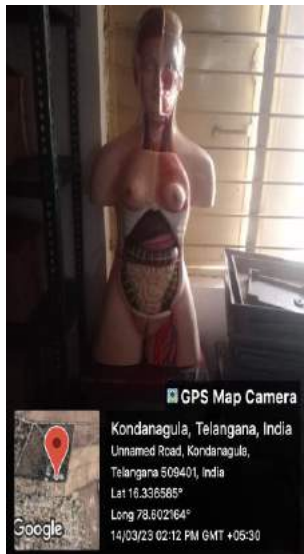
VERONUS SKELETAL SYSTEM



MICROSCOPES

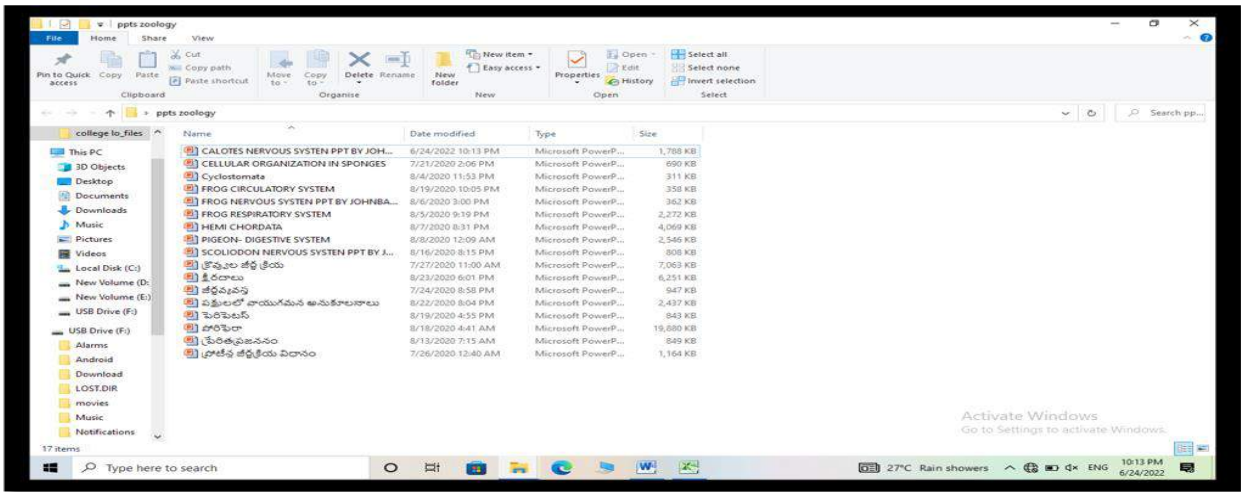


ZOOLOGY LAB SPECIMENS

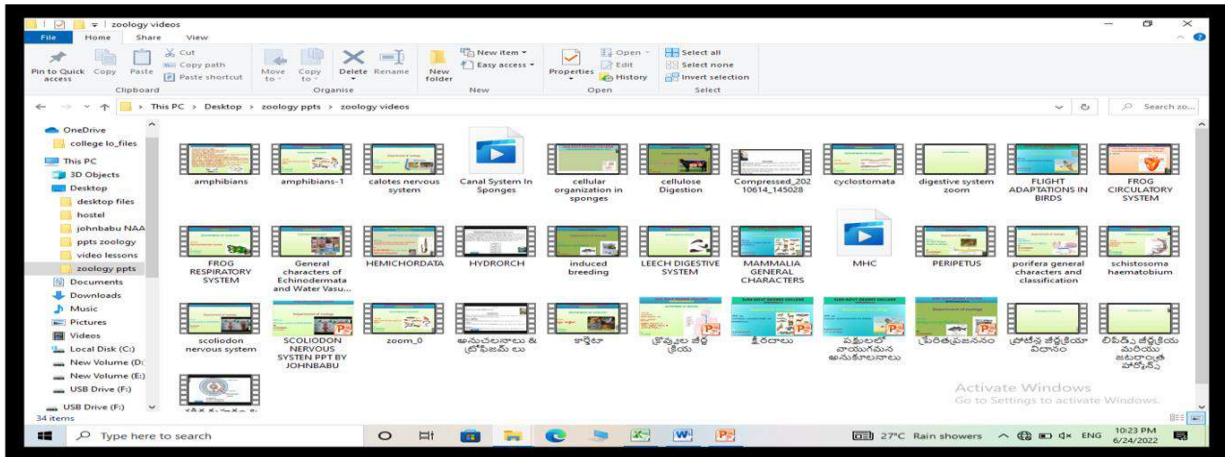


HUMAN TARSO MALE & FEMALE

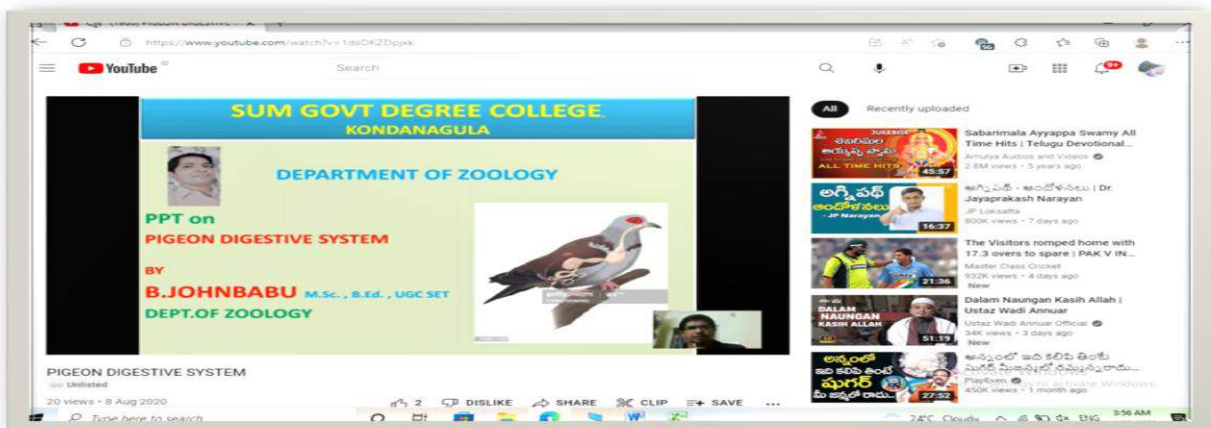
ICT CLASSES AND LEARNINGS RESOURCES



ZOOLOGY PPT LESSONS



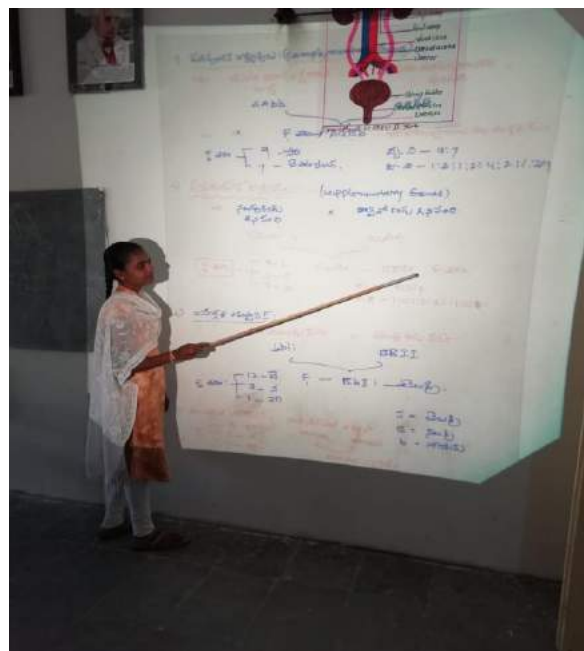
ZOOLOGY VIDEO LESSONS



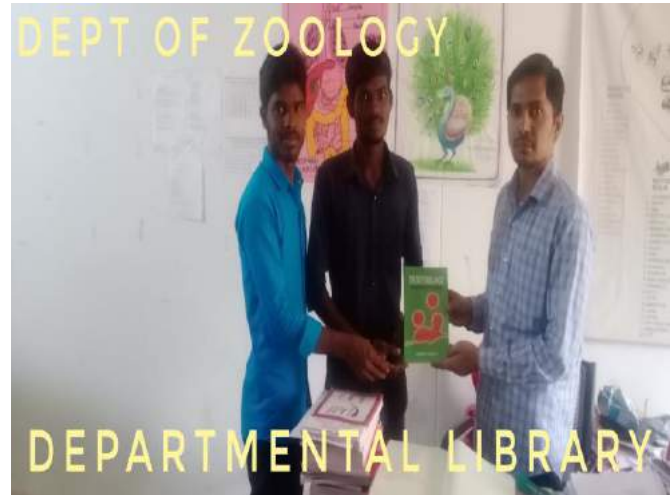
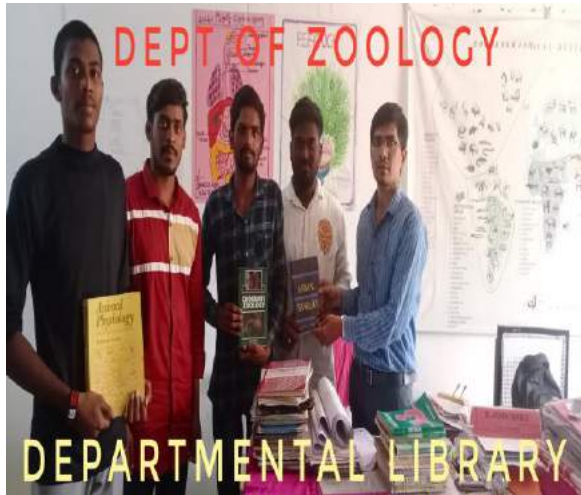
ZOOLOGY YOU TUBE LESSONS WITH LINKS

S.NO	NAME OF THE YOUTUBE LESSON	YOUTUBE LINK
1	Annelida General characters and classification	https://youtu.be/Vf7u3hOjRrs
2	Coelom and coelomo ducts	https://youtu.be/-CmHvUG6e-w
3	Taxes and Trophism	https://youtu.be/t0vOIDXi4ng
4	Operon concept	https://youtu.be/KT1y2bgLEgU
5	Rhibosomes	https://youtu.be/1N39xmwPFSI
6	Parental care in Amphibians	https://youtu.be/DgcdXbk8T8I
7	Dentition in Mammals	https://youtu.be/AjEDrSjztgM
8	Frog Nervous System	https://youtu.be/vDkt3GWmpCM
9	Cellular Organization In Sponges	https://youtu.be/30CBSf-NwDc
10	Types of Digestion & carbohydrates Digestion	https://youtu.be/BPJ1COh1vtk
11	Proteins Digestions	https://youtu.be/WEexjX3Zk8c
12	Lipids Digestion & Gastro intestinal Hormones	https://youtu.be/jWIVpUqyemc
13	Schistosoma Haematobium	https://youtu.be/theozl8ve30
14	General Characters of Echinodermata & Water vascular system	https://youtu.be/edPjBqykgLE
15	Leech External Features & Digestive system	https://youtu.be/zX2txciWIXs
16	Leech Reproductive system	https://youtu.be/yEGSNptRpuo
17	Amphibians G.C & Classification	https://youtu.be/2T3BVG2uxD4
18	Chordata G.C & Classification	https://youtu.be/2zrW3LjkrPY
19	CYCLOSTOMATA	https://youtu.be/aMYsw6Hyh0U
20	FROG RESPIRATORY SYSTEM	https://youtu.be/AUeDliM-Tt8
21	CALOTIS NERVOUS SYSTEM	https://youtu.be/-jQyrmKcY5U
22	HEMICHORDATA	https://youtu.be/GTxzD-vBz4M
23	PIGEON DIGESTIVE SYSTEM	https://youtu.be/1dsOKZDpjxk
24	DIGESTION OF CELLULOSE	https://youtu.be/XtmQ9AXKy5M
25	INDUCED BREEDING	https://youtu.be/wjMYPLzqd8s
26	SCOLIODON NERVOUS SYSTEM	https://youtu.be/O9gUvNHrsmc
27	PORIFERA G.C AND CLASIFICATION	https://youtu.be/uZ-Z-0L1XtM
28	FROG CIRCULATORY SYSTEM	https://youtu.be/8bVCLP4MlvG
29	PEROPETUS	https://youtu.be/NUda6qrtEx4
30	FLIGHT ADAPTATIONS IN BIRDS	https://youtu.be/_W3HLxMYW04
31	G.C OF MAMMALIA	https://youtu.be/q_hZyIt0vv0
32	ELPHIDIUM	https://youtu.be/vprt0aeSliQ
33	CELLS IN IMMUNE SYSTEM	https://youtu.be/yO3POjhOQh0
34	WATER VASCULAR SYSTEM IN STAR FISH	https://youtu.be/edPjBqykgLE
35	G.C AND CLASSIFICATION OF AMPHIBIANS	https://youtu.be/8jwUIPkj7Qg
36	DNA	https://youtu.be/59rU2bNoUtM
37	Structure of Immunoglobulin	https://youtu.be/_JDMIIZYvWg

S.NO	NAME OF THE YOUTUBE LESSON	YOUTUBE LINK
38	Types of Eggs	https://youtu.be/lfYydnwPbrQ
39	Types of Immunoglobulins	https://youtu.be/0m2O_-nWla8
40	Ultra Structure of Animal cell	https://youtu.be/etSNjfa3FYy
41	Metamorphosis in Insects	https://youtu.be/gpM7pgDWNu8
42	Food Chains and Food Web	https://youtu.be/ug0FtrT36js
43	Xerorch	https://youtu.be/RjPjVSzq9xw
44	Trail and Error Theoty& Classical conditioing	https://youtu.be/6haLBM1TmYA
45	Symbiosis	https://youtu.be/kVCbDkK2w2A
46	Canal System In Sponges	https://youtu.be/G174DTdWYHM
47	Reproduction in Protozovans	https://youtu.be/xzKLzLR5cJo
48	MHC	https://youtu.be/TL5MmnO5hT0
49	Locomotion in Protozovans	https://youtu.be/FagZyqKwZ9k
50	Mendal Laws	https://youtu.be/9SHJN1lQuKo
51	Hydrorch	https://youtu.be/EXOs8h6QDnE
52	Nitrogen Cycle	https://youtu.be/DRLEoi4H0Sk
53	Ecosystem	https://youtu.be/f8FZAlv_R0Y
54	Prawn Reproductive System	https://youtu.be/j_loxZBxz_k
55	Mitosis	https://youtu.be/GsiN07MI0UQ



ZOOLOGY ICT CLASSES



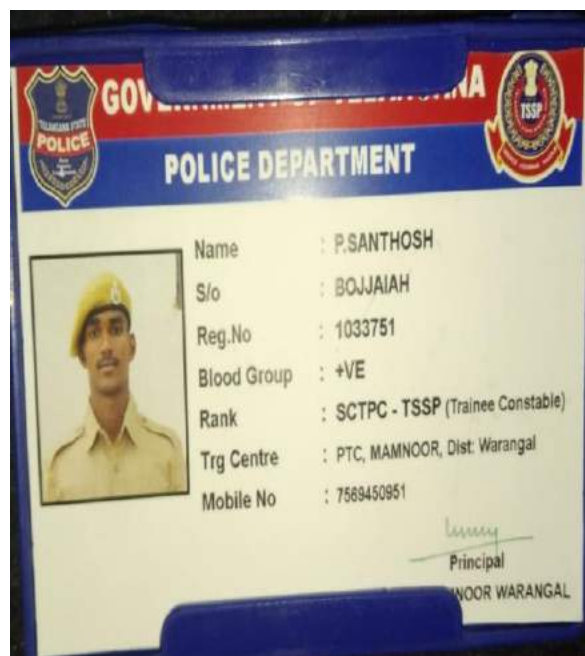
DEPARTMENTAL LIBRARY BOOKS ISSUED TO STUDENTS



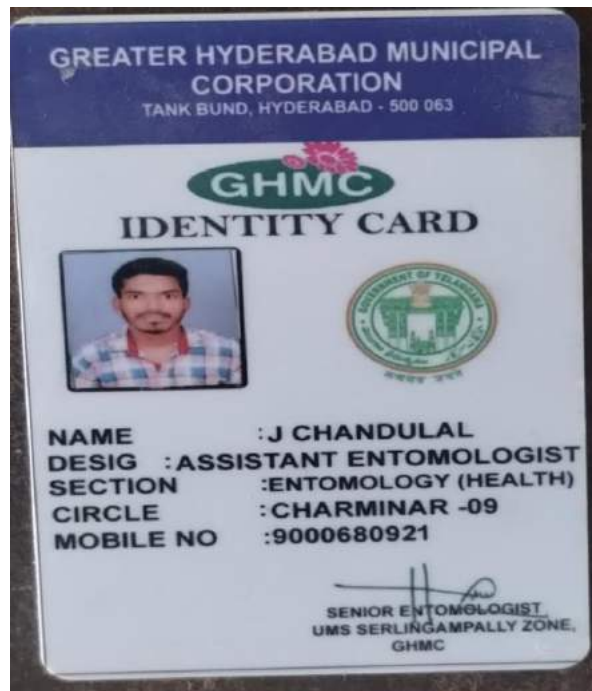
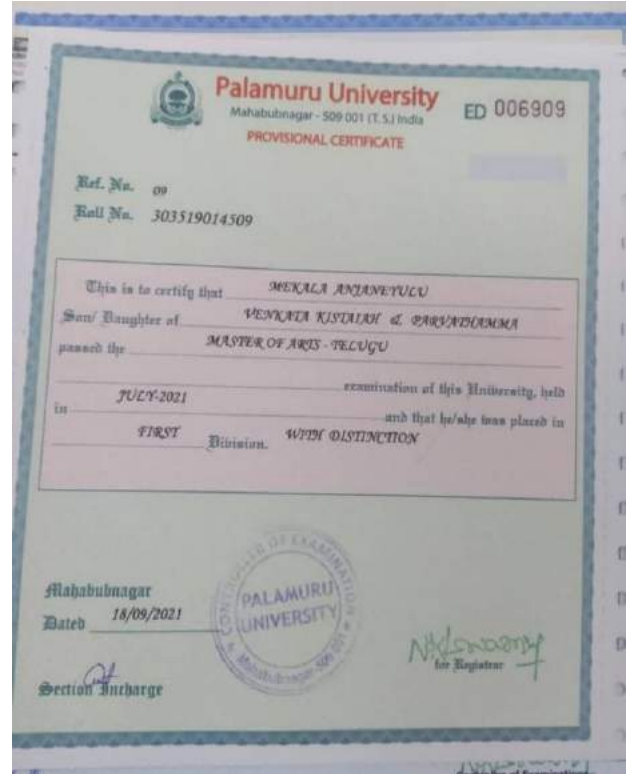
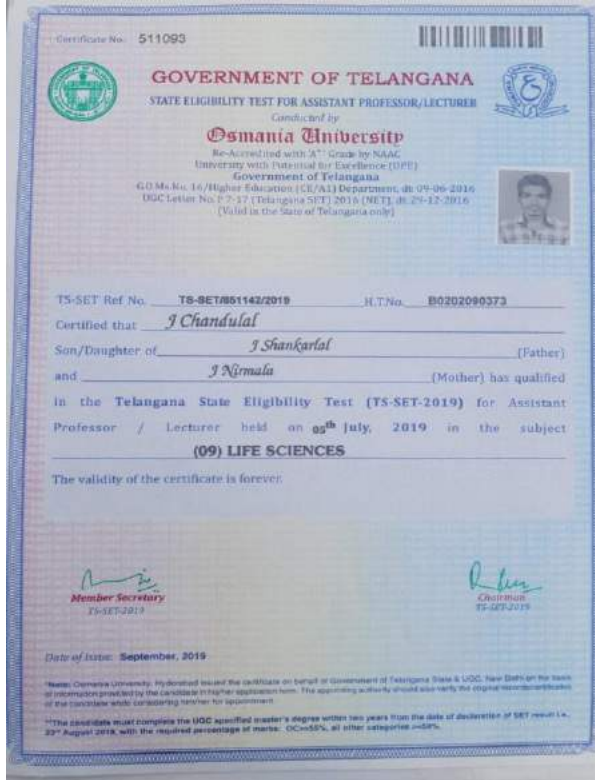
DEPARTMENTAL LIBRARY BOOKS ISSUED TO STUDENTS

V. Students Support and Progression

- Based on the information present in the bio-data forms the department takes up counseling pertaining to academic and career matters
- Students are motivated for higher studies. Most of our students joined **B.Ed, PG courses**. In 2018-19 academic year **V.Priyanka** H.T.NO 16033051445519 BZC Students got **90 rank in pg entrance zoology** conducted by Osmania University and she got free seat at Palamuru University, Mahabubnagar Campus.
- There are Two BZC students had **selected to Army**.
- **Santhosh H.T.NO 17033051445515** BZC Student has selected as **Police constable job**.
- **J.Chandulal** BZC Student of this college has passed **TS.SET-2019** Exam conducted by Osmania University and he worked as a asst.entomologist at GHMC,HYD.TS.
- **M.Priyanka H.T.NO 305114445516** BZC Student selected as a **Police Constable**.
- Students who studied Zoology as optional subject are occupying good positions.
- **R.Manikya H.T.NO 305114445501** BZC student got **100/100 marks** in PU Annual Examination 2016-17 in Zoology IV Paper and **N.Niranjane H.T.NO 305114445509** got **99/100 marks** in Zoology IV Paper.



BZC STUDENTS SELECTED AS POLICE CONSTABLE



J.CHANDULAL SELECTED AS ASST.ENTOMOLOGIST AT GHMC HYDERABAD

VI. Organization and Management

- Departmental meeting is being conducted to review the progress of the syllabus and practical's.
- The faculty members are involved actively in many committees of the college to help the college administration and for the development of college.
- Students are encouraged to participate in all events of national relevance like NSS day, National Science Day, World Environmental day, International YOGA Day, World population day AIDS awareness day, Anti leprosy day and participation in Blood donation camp etc.
- In college level every year the department of zoology conducted Blood Grouping Identification Programme to teaching & Non teaching staff and Students



National Voters Day



Awareness on Cyber Crimes by SI of Balmoor



Telanganaku Haritha Haram

కళాశాల అభివృద్ధికి అందరి సహకారం అవసరం



మాస్కా నిర్వహించారు. ముందుగా కళాశాలలో ఏర్పాటు చేసిన విద్యా దాత కేవలం భగవంతుని వల్ల విద్యను పొందగలిగిన మేం నువ్వే ఆర్జించాడు. అనంతరం ప్రీస్టేజిల్ మాట్లాడుతూ.. నల్లమల ప్రాంతమైన కొండనాగులలో పాఠశాలలు, కళాశాలలు ఏర్పాటు చేయడంకోసం ఎంతో కృషి చేశారన్నారు. కళాశాల అభివృద్ధికి పూర్వ విద్యార్థులు సాయం అందించాలన్నారు. కార్యక్రమంలో జేపావోపి ఏర్పాటుకొని కళాశాల నిర్మాణం సర్టిఫికేట్ రాష్ట్ర డా. దూపింగ్, రవి, ఆశీష్, వెంకటయ్య, ఈశ్వర్ లాల్, డా. కృష్ణగోపాల్, జానకమ్మ, సర్పంచిలు, పూర్వ విద్యార్థులు పాల్గొన్నారు.

Old Students Alumni Programme



International Women's Day



Telangana Bhasha Dinostavam



Mahindra Pride Training Programme(2019-20)



Mahindra Pride Training Programme(2021-22)



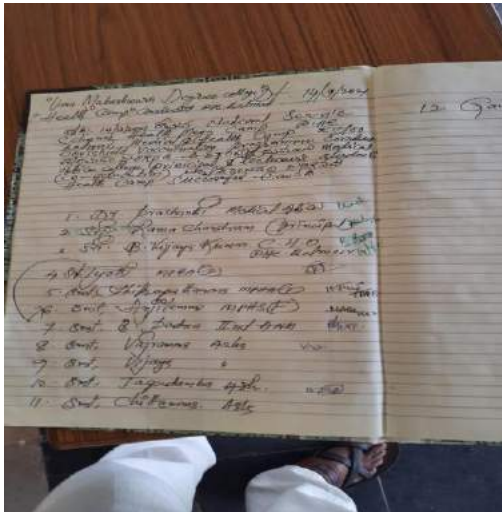
National science day celebrations



INTERNATIONAL YOGA DAY CELEBRATIONS AT COLLEGE



COVID-19 MEGA VACCINATION DRIVE COLLEGE HEALTH CLUB & DEPT OF ZOOLOGY on 14.09.2021



BATUKAMMA (TELANGANA FLORAL FESTIVAL)

VII. Best Practices

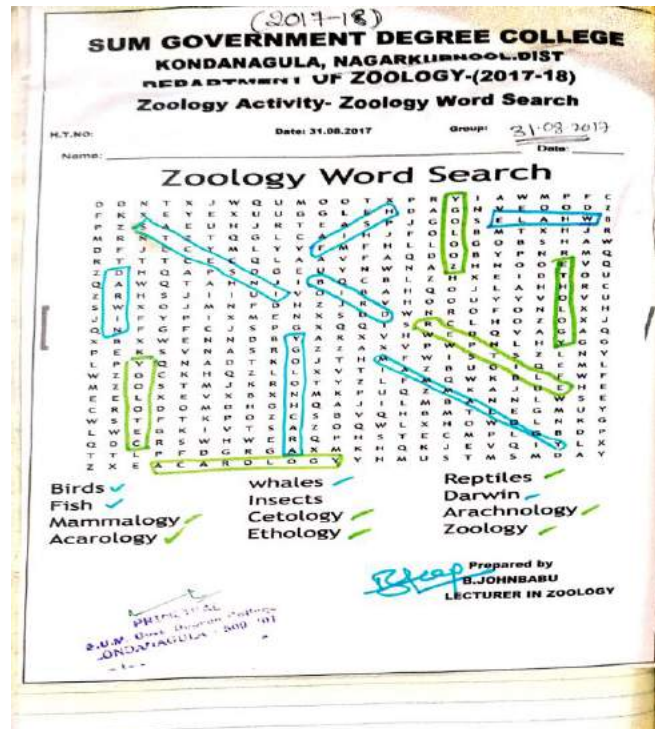
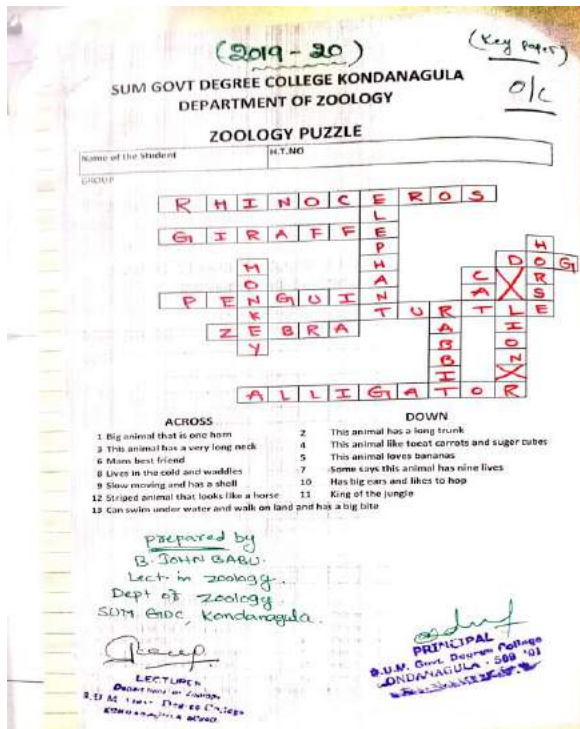
Department of Zoology is having a MoU with Milk Chilling Centre, Achampet they were aware the students to increase the quality and quantity of Milk Production. And also MoU with Dept of Zoology in Various Government Degree Colleges in Nagarkurnool Dist to share subject knowledge among the students.

- Quiz programmes and zoology puzzles are conducted periodically.
- Students are encouraged to participate in various college activities.
- Models, bio-visual charts, OHP. Subject related ppts are used in regular teaching.
- PG entrance coaching classes conducted along with regular syllabus.
- PG entrance books are available at department for best results of students.(in 2019 academic year J.CHANDULAL student of this college passed TS-SET.2019 Exam conducted by Osmania University Hyderabad for Eligible for Asst Prof/Lecture ship
- V.PRIYANKA BZC student got 90 rank in PG Entrance zoology at palamuru university campus).

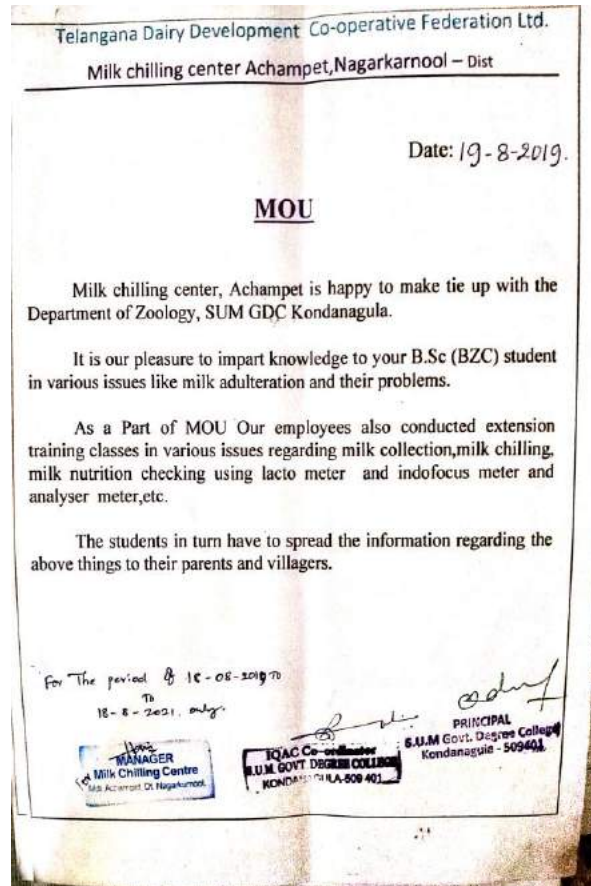
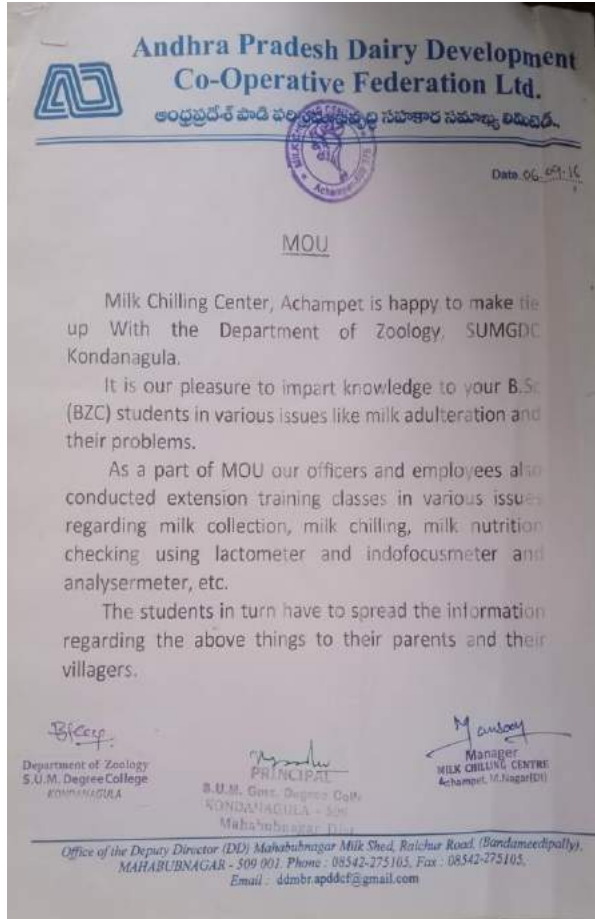
S.NO	NAME OF THE BEST PRACTICES	ACADEMIC YEAR
1	COLLECTION OF ANIMAL PHOTOGRAPHS	2016-2017
2	IDENTIFICATION OF BLOOD GROUPS OF TEACHING & NON TEACHING STAFF	2017-2018
3	ZOOLOGY WORD SEARCH	2017-2018
4	ZOOLOGY PUZZLE	2019-2020
5	A NATIONAL LEVEL ONLINE e-QUIZ ON AWARENESS ON COVID-19	2020-2021
6	IDENTIFICATION OF BLOOD GROUPD IN BSC I YEAR LIFE SCIENCE STUDENTS	2021-2022



IDENTIFICATION OF BLOOD GROUPS OF TEACHING & NON TEACHING STAFF



ZOOLOGY WORD SEARCH & PUZZLE AS A BEST PRACTICE



MOUs with MILK CHILLING CENTRE, ACHAMPET

ACTION PLAN -2022-23

- To concentrate more on student problems and to improve their results.
- Propose to strengthen our laboratories with RUSA funding.
- To introduce job oriented courses like Sericulture & Vermiculture.
- Propose to field trip to **NIN** Institute and **ICRISAT**.
- Propose to contribute Gold Medal to Zoology topper.
- To train the students for effective English speaking
- We plan to subscribe for few more journals
- We plan to organize a State level Seminar on **Recent Trends in LIFESCIENCES**
- We plan to install **AQUARIUM** in the ZOOLOGY lab
- We plan to supply material to the academically backward students.



THANK YOU