



Commissionerate of Collegiate Education
Government of Telangana

**GOVERNMENT DEGREE COLLEGE
CHENNOOR**

MANCHERIAL Dist, TELANGANA

**PROFILE OF
DEPARTMENT OF ZOOLOGY
2015 - 2020**



DEPARTMENT HISTORY

The Department of Zoology was established in this college with B.Sc.(BZC) course in the year 2008 with a view to provide Science education to the students of this region. Eminent and well experienced faculty served at this department. Many eminent scholars with required knowledge and skills were produced from this department. Alumni members of this department achieved greater positions in their lives.

EXECUTIVE SUMMARY:

- ❖ **With a view to provide quality Science Education to the students of this region, Department of Zoology was established year 2008 with B.Sc.(BZC) TM course .**
- ❖ **Well experience teacher presently working, with rich teaching and research experience.**
- ❖ **Enthusiastically, Teacher of Zoology Department have conducted a good number of Co- curricular activities such as Student Seminars, Assignments, Group Discussion, Extension Lectures, Science Quiz, Essay Writing, Field Visits and Study Projects etc. to increase their participative and collaborative learning.**
- ❖ **To leverage the technology, interestingly, the Zoology Teachers are effectively using ICT for making the teaching-learning more effective.**
- ❖ **To provide first-hand knowledge to the students, Field Trips and Study Tours have been conducted during the last three years.**
- ❖ **As far as physical and infrastructural facilities are concerned, Department of Zoology has one staff room, 1 spacious classroom, Digital Classroom cum Zoology Lab and two CCTV Cameras for safety and security.**
- ❖ **The Departmental Library has Text books and Reference books.**
- ❖ **During the last five years, a good number of BZC students have progressed to higher education i.e., M.Sc, B.Ed, M.B.A and Other Courses etc.**

- ❖ Eminent, Scholastic and Rich experienced Teachers have served at the Department and moulded many students to reach greater heights in their life.
- ❖ The Teachers of Department of Zoology are rendering their valuable services in various Academic, Administrative, IQAC and Extension Committees .
- ❖ The Zoology Department has played a significant role in initiation and adoption of Best Practices such as Student Study Project and Student Quality Circles etc which yielded good results as well.

STRENGTHS, WEAKNESSES, OPPORTUNITIES & CHALLENGES:

Strengths:

- ❖ Teachers are with rich and varied experience in teaching and research.
- ❖ Well equipped Zoology Lab and Digital Classroom for ICT teaching.
- ❖ Well ventilated and spacious classrooms.
- ❖ Availability of CCTV Cameras for safety and security.

Weakness

- ❖ Less number of Teachers than required.
- ❖ Less number of admissions.
Non-availability of separate class room and Lab .

Opportunities

- ❖ There is lot potential increase the admissions in the days to come.
- ❖ P.G Course i.e., M.Sc, Going to introduce to cater to demands of this region students.
- ❖ More number of Certificate and Value Added Courses can also be introduced in future.

Challenge

- ❖ The ICT facility can be arranged in each and every class to leverage the Sever competition from private colleges which are indulging in unfair practices in admissions.
- ❖ The College is suffering from location problem i.,e. so far long from town.

BASIC INFORMATION

Table 1: Academic Information (Under Graduation Level)

Profile of Department of Zoology, GDC, Chennai

Year	Name of the Programme	Duration in Years	Entry Qualification	Medium of Instruction	Sanctioned Strength	No. of Students Admitted
2019-20	B.Sc.(BZC)	3 Years	Intermediate	Telugu	60	15
2019-20	B.Sc.(BZC)	3 Years	Intermediate	English	60	16
2018-19	B.Sc.(BZC)	3 Years	Intermediate	Telugu	60	39
2018-19	B.Sc.(BZC)	3 Years	Intermediate	English	60	08
2017-18	B.Sc.(BZC)	3 Years	Intermediate	Telugu	50	36
2016-17	B.Sc.(BZC)	3 Years	Intermediate	Telugu	50	31
2015-16	B.Sc.(BZC)	3 Years	Intermediate	Telugu	50	37

Chart 1: Number of Teachers working against sanctioned post in Dept. of Zoology during the last five years:

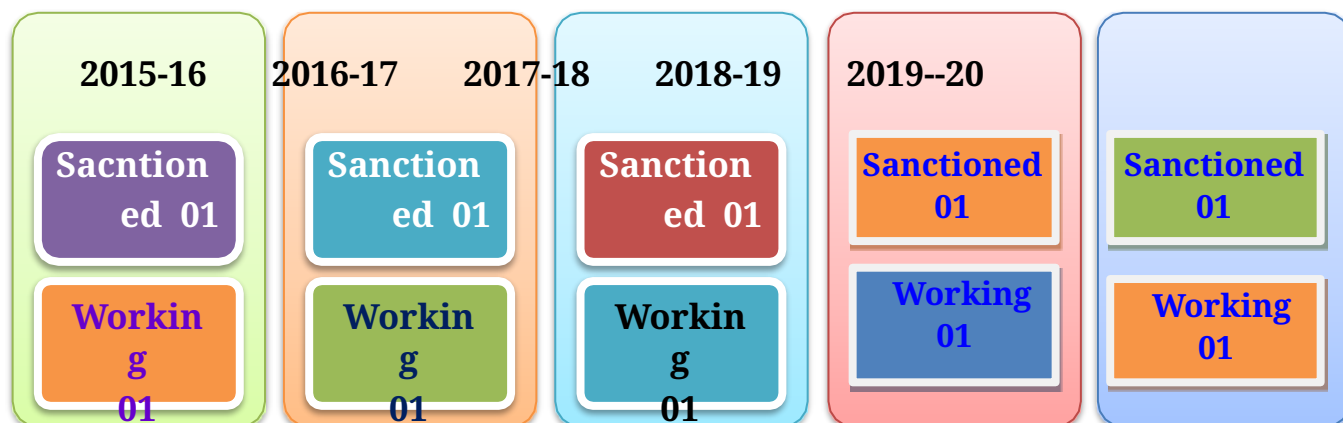


Table 2: Details of Qualification of Teaching Faculty during the last five years

Profile of Department of Zoology, GDC, Chennai

Year	Name of the Teaching Faculty	Qualification	Designation	Experience
2019-20	Sri.Ch. Narayana Reddy	M. Sc.,	Associate Professor	20 Years
2018-19	Sri.Ch. Narayana Reddy	M. Sc.	Associate Professor	19 Years
2017-18	Sri.Ch. Narayana Reddy	M. Sc.,	Associate Professor	18 Years
2016-17	Sri.D.Krishna Gopal Rao	M.Sc., M.Phil.,	Contract Lecturer	11 Years
2015-	Sri.D.Krishna Gopal Rao	M.Sc., M.Phil	Contract Lecturer	10 Years

CRITERION-WISE EVALUATION OF THE DEPARTMENT

CRITERION-1 CURRICULAR ASPECTS

1.1 Curricular Planning and Implementation

The College is affiliated to Kakathiya 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 Affiliating University and Academic Calendar issued by the Commissioner of Collegiate Education, Hyderabad. The In-charge 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, TSKC and TASK etc.

Introduction of CBCS: The Govt. of Telangana introduced Choice Based Credit System (CBCS) in the state as per the guidelines given by the UGC in all the 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.(BZC) Final year both in English medium and Telugu medium.

1.3 Curriculum Enrichment

According to the suggestions and guidelines of the Telangana State Council of Higher Education

(TSCHE), the Affiliating University i.e., Kakathiya 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

Sl. No	Title of the Project	Name of the Supervisor	Name of the Students
1.	Vermicultur project	Ch.Narayana Reddy	Ch. Baghya Laxmi N.Shivani Md. Sahera G.Vani N.Swathi



1.4 Feedback System

Feedback has been collected manually from the students on teacher's performance and has been analyzed

to find out the performance of the Teachers across the parameters. It helps to find out the gaps and to make teaching learning process more effective and to meet the needs of the students in all aspects. The responses have been collected on Likert's five point rating scale ranging from Poor to Excellent from about 20 students each.

Table 4: Teacher-wise and Year-wise Feedback Analysis Overall Response

Sl. No	Name of the Teacher	Feedback Analysis Overall Response in %				
		2015-16	2016-17	2017-18	2018-19	2019-20
1	D.Krishna Gopal Rao	37% V. Good	37% V. Good	-	-	-
2	Sri.Ch.Narayana Reddy	-	-	71% Excellent	70% Excellent	72.25% Excellent_

Year & Course	2015-16		2016-17	2017-18		2018-19		2019-20	
	Intk.	Adm.	Adm.	Intk.	Adm.	Intk.	Adm.	Intk.	Adm.
B.Sc. (BZC) TM	50	37	31	50	36	60	16	60	15
B.Sc. (BZC) EM	50	7	5	50	7	60	08	60	16

Table 6: Students Admitted from the Reserved

Year & Cast e	SC		ST		OBC		General		Total		Grand Total
	M	W	M	W	M	W	M	W	M	W	
2015-16	5	9	2	3	9	7	0	2	16	21	37
2016-17	1	12	0	0	5	12	0	1	7	24	37
2017-18	2	8	1	0	0	18	1	0	4	32	36
2018-19	3	7	2	3	3	18	1	0	9	30	39
2018-19	0	0	0	0	0	0	0	0	1	7	8
2019-20	0	3	0	1	4	6	0	1	4	11	15
2019-20	3	3	0	0	3	7	0	0	6	10	16
Total	14	42	5	7	19	68	2	4	47	135	188

2.2 Catering to Student Diversity

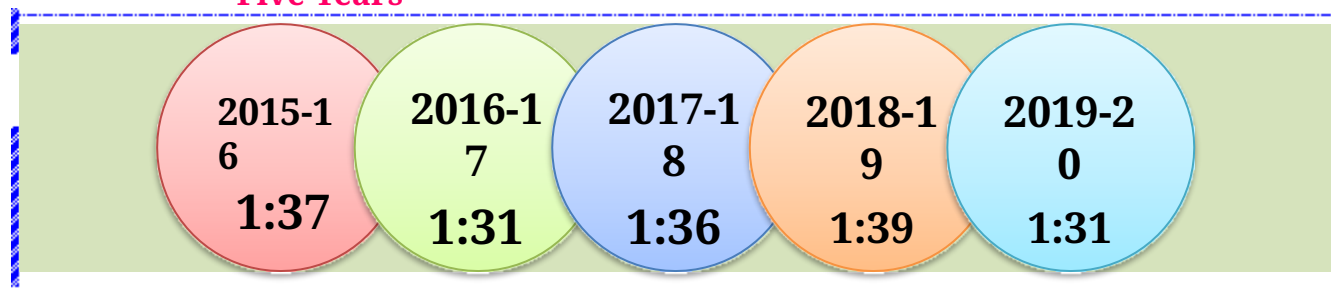
The Department of Zoology takes every measure possible to understand the needs and requirements of

the students before the commencement of the program. Students are counselled 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.

Table 7: Student Full Time Teacher Ratio for the last

Year	Student Full Time Teacher Ratio
2015-16	1:26
2016-17	1:22
2017-18	1:17
218-19	1:11
2019-20	1:16

Chart: 2: Student Full Time Teacher Ratio for the last Five Years



2.3 Teaching-Learning Process

Learning at the college has been changed from teacher centric to the 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 at the Department of Zoology. 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, brain storming activities, creating mind

maps facilitate participative learning. Extension activities, internships and trainings ensure experiential learning for students.

4. Academic Activities

The staff maintains teaching diaries, synopsis and prepares Annual Academic plans to have more systematic approach. Departmental meetings are convened every month to

discuss various issues pertaining to academic as well as administrative matters. The faculty of the department strictly adheres to the academic schedule as per the almanac

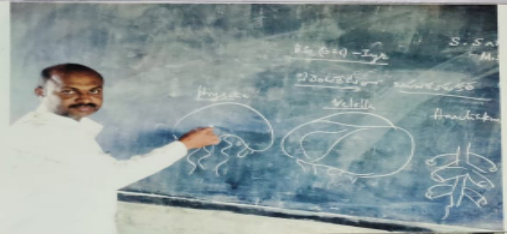
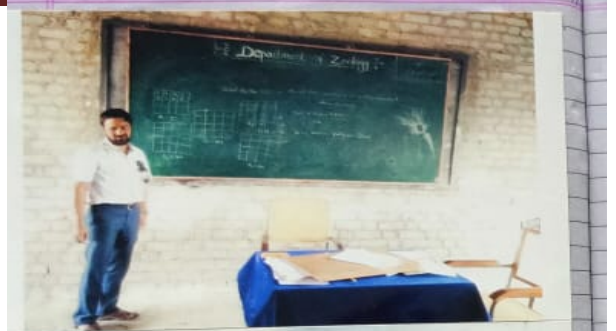
furnished by the university. The time table is framed and workload is distributed among the staff as per the time table.

1. Extension Lectures Arranged to Students

The Department of Zoology conducts Extension Lectures on latest topics in the Zoology Subject by

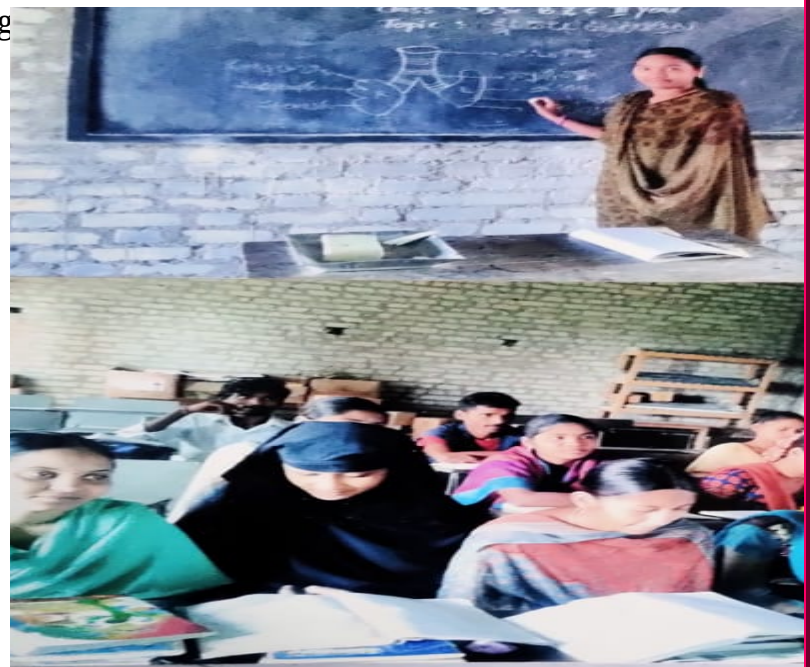
inviting eminent Lecturers from other colleges.

Profile of Department of Zoology, GDC, Chennai

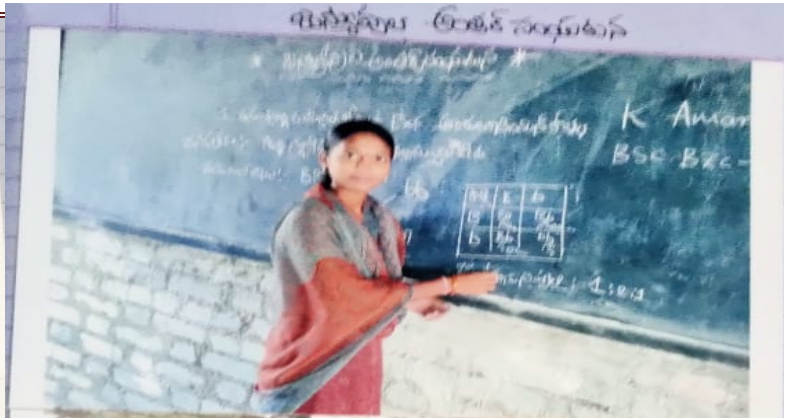
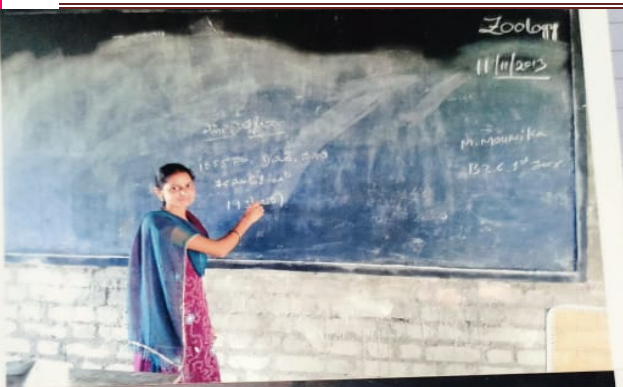


2.4.2 Student Seminars

Teachers of Zoology Department have conducted a good number of Student Seminars in various topics



Profile of Department of Zoology, GDC, Chennai



2.4.3 Study Tours and Field

The Department has arranged Study Tours and Field Visits to various departments such as Fisheries

department, Sericulture Department , Gollavagu Project visited , Village Bheemavarm, Mandal Jaipur, Dist: Adilabad. Date 22/01/2015.



Profile of Department of Zoology, GDC, Chennai



2.4.7 Remedial Coaching for Slow

Remedial classes are arranged in the department every year to the academically slow learners, our staff actively participates in taking classes for them. These students are given extra coaching in various subjects and topics to improve their academic performance in each year.

Table 8: Remedial Coaching for Slow Learners

SL. No	NAMES OF THE FACULTY	2015-16	2016-17	2017-18	2018-19	2019-20
1	D.Krishna Gopal Rao	05	2	-	-	-
2	Sri. Ch.Narayana Reddy	-	-	03	03	01
	Total	05	02	03	03	11

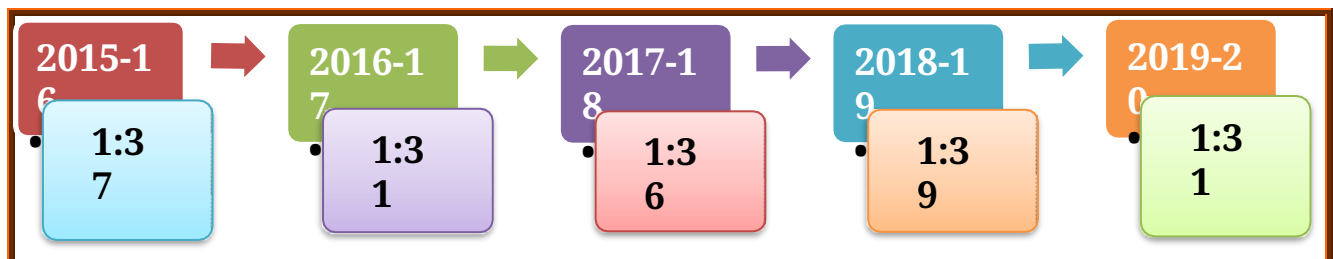
2.5 Teachers using ICT for Effective Teaching:

For effective and efficient teaching, Teacher in the Zoology Department is effectively using ICT with

PPT. The Digital Classroom is available in the Department of Zoology.



Chart 3: Ratio of Students to Mentor for Academic and Stress Related Issues:



2.6 Innovation and Creativity in Teaching-Learning:

At Department of Zoology innovative, creative and techno oriented teaching methods are being widely adopted for making the teaching-learning process more effective. Modern teaching tools such as LCD Projectors, Smart Boards, Virtual Boards 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

The following innovative and creative Teaching-Learning techniques have

- ❖ Subject teacher is sharing the subject and competitive information in the 'WhatsApp' group.
- ❖ The subject teacher prepare the subject PPTs in an effective manner and teaching on smart interactive boards to create more interest on learning among students.
- ❖ For better understanding of the subject concepts group discussions and debated 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

Profile of Department of Zoology, GDC, Chennai

- Dept. of Zoology organized 'Science Day' and Science Quiz competitions conducted by involving the large number of students to acquaint with the Science subjects.

2.7 Teacher Profile and Quality

The department has one contract faculty as per the existing State Government guidelines. The staff member is actively engaged in academic as well as research activities by their competencies and interests.

Year	Sanctioned	Name of the Teaching Faculty	Qualification	Designation	Experience
2015-16	01	1.Sri. D.Krishna Gopal Rao	M.Sc., M.Phil.,	Contract Lecturer	10 Years
2016-17	01	1. Sri.D.Krishna Gopal Rao	M.Sc. M.Phil.,	Contract Lecturer	11 Years
2017-18	01	1. Sri.Ch.Narayana Reddy	M.Sc.,	Associate Professor	16 Years
2018-19	01	1. Sri. Ch.Narayana Reddy	M.Sc.,	Associate Professor	17 Years
2019-20	01	1. Sri.Ch.Narayana Reddy	M.Sc.,	Associate Professor	18 Years

Chart 4: Full Time Teachers against Sanctioned Posts during the Last Five Years

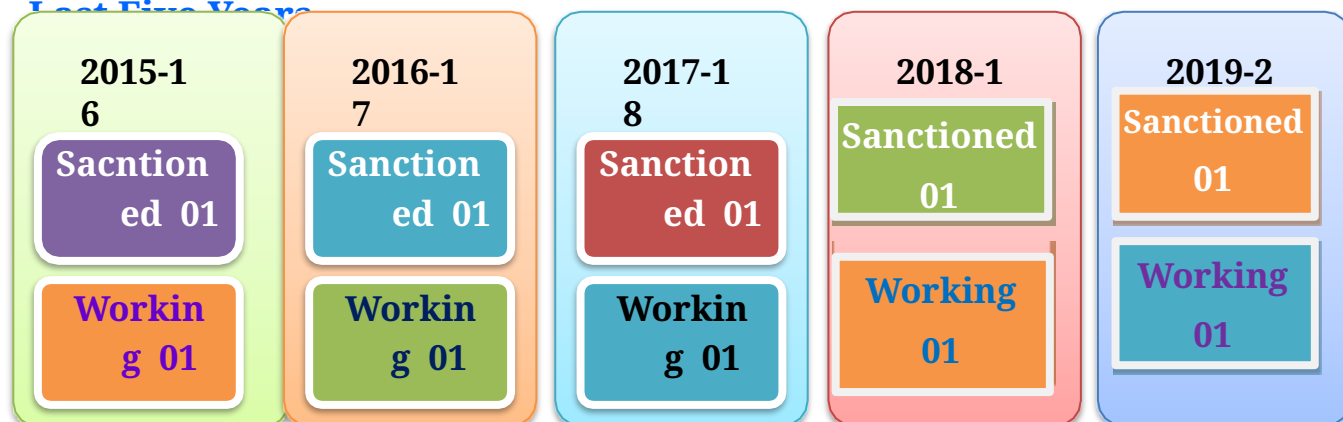
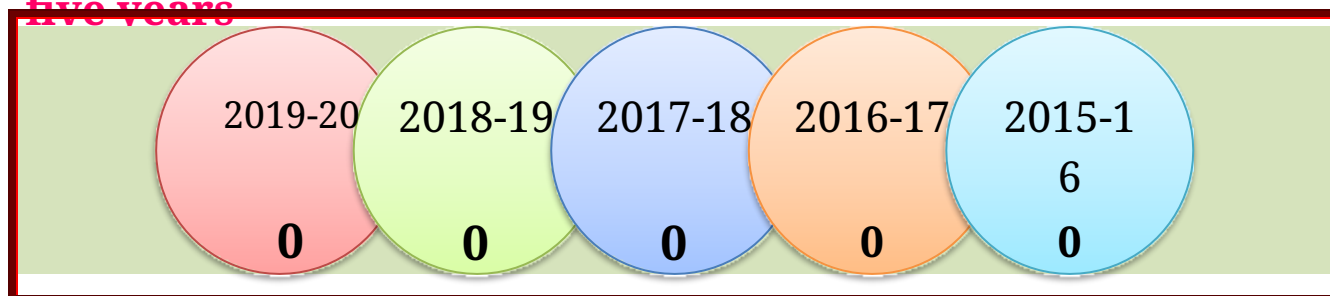


Chart 5: No. of Full Time Teachers with Ph.D. during the last five years

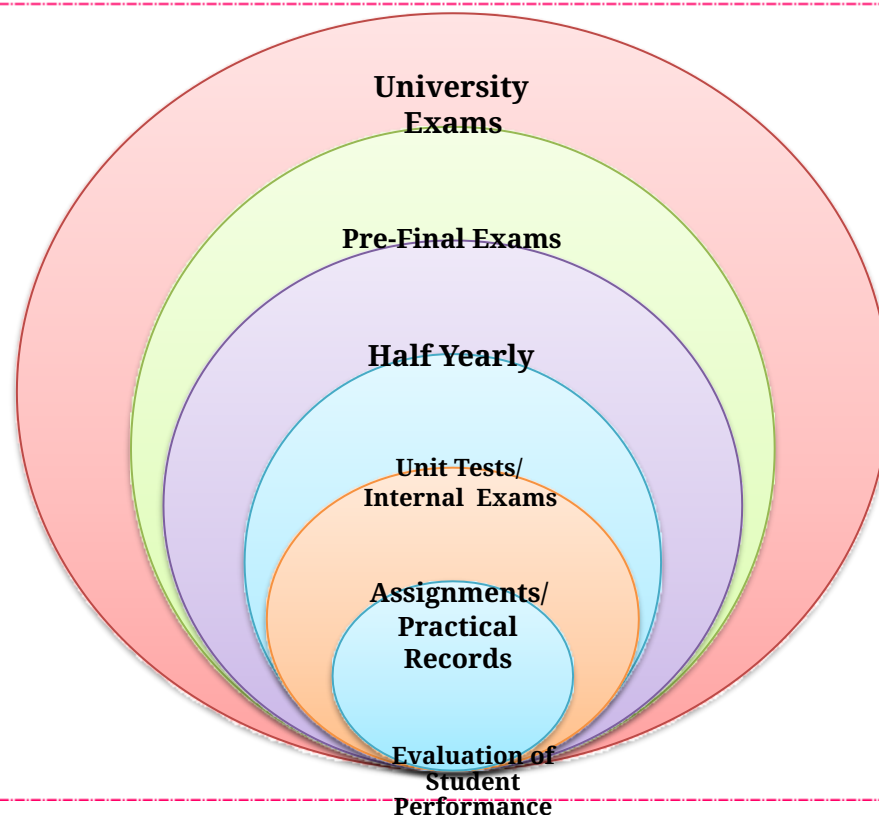


2.8 Evaluation Process and Reforms

Evaluation of the Students' Performance:

The department conducts slip tests and assignments regularly for all the years for assessing their performance. Marks lists are prepared and placed in a separate register. The department also conducts student tutorials particularly for final years, in which the students actively participate and the same will be recorded in a separate file. The staff also submits the reports of slip tests and assignments conducted in the department in their performance indicators. The college conducts pre-final exams at the end of every academic year to prepare the students for university examinations.

Chart 6: Evaluation Process



Participation in Examination

All the teachers of the department are extensively involving in examination duties like External examiner

for Zoology practical examinations, invigilation, observers, as evaluators for Kakathiya University.

2.9 Reforms in Evaluation

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 Kakathiya University to which this college is affiliated, has introduced the new CBCS

2.6 Student Performance and Learning Outcomes

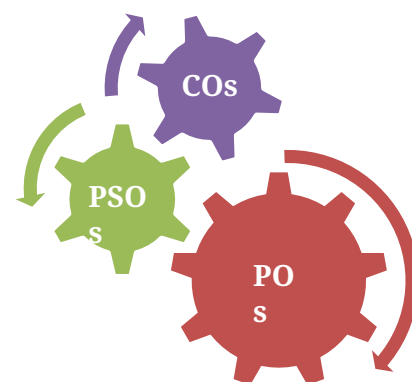
The Program Outcomes (POs), Program Specific Outcomes (PSOs) and the Course Outcomes (COs), of

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.

The detailed Program Outcomes, Program Specific Outcomes and

Course Outcomes are placed on the college website and are made available to all the stake holders 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 alumnae are also highlighted.



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

Programme Outcomes The primary objective of the department is to impart quality education in the subject of Zoology as a basic science and its applied branches to the students from rural Telangana with very minimum fees.

To provide quality education in a branch of Biological sciences i.e Zoology with-different specializations. To facilitate Higher education- & research in zoology.

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 Inculcate the spirit of resource conservation and love for nature.-

To conduct field studies and different projects of local and global interests.-

To provides opportunities for professional and personal development through- curricular and co- curricular activities.

Provide consultancy and organize extension activities.-

;Programme Specific Outcomes:

1. The specific learning goals for General Zoology are to provide students with a working knowledge of fundamental principles in zoology that will provide a foundation for their later advanced course work in more specific biological subjects.
2. As General Zoology is a basic course, students will become familiar with animal classification schemes and associated taxonomic group diagnostic characteristics as well as developing an understanding of and ability to apply basic zoological principles.
3. The laboratory and lecture sections of the course are highly integrated and directed toward teaching students the principles of animal evolution, classification, form and function.

Course Outcomes:

Students will be able to identify and define an invertebrate. Students will be able

Profile of Department of Zoology, GDC, Chennai

organisms, their populations, and communities, on ecosystems and ultimately at the level of the biosphere. If ecologists can achieve an understanding of these relationships, they will be well placed to contribute to the development of systems by which humans could sustainably use ecological resources.

Motivating the farmers to plant high yielding mulberry varieties to increase income and productivity- Imparting training in mulberry cultivation, silkworm rearing and silk reeling.

“To provide education on Bee improvement and awareness to the public of the values of the native Irish honey bee.”

To provide information as to where local improvement groups are established. To provide information about ongoing events.

Developing DNA - based diagnostics and genetically engineered vaccines for animals, Studying animal genomics and its varied applications.

To undertake a laboratory or fieldwork project on aspects relevant to research on topics of genetic and marine Biology.

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.

Table 10 Year-wise Pass Percentage of University Exams for the

Sl. No	Academic Year	Group	Appeared	Passed	%
1	2015-16	B.Sc.(BZC)	29	0	0
2	2016-17	B.Sc.(BZC)	29	14	48
3	2017-18	B.Sc.(BZC)	20	08	40
4	2018-19	B.Sc.(BZC)	17	12	70
5	2019-20	B.Sc. (BZC)	21	08	38

Table 11: Subject wise and Teachers wise Result Analysis-2018-19 (B.Sc. (Zoology)TM) Semester- I, III & V

Sl.No	Subject	Name of the Teacher		Appeared	Passed	%
1	Animal diversity- Invertebrates	Sri.Ch.Narayana Reddy	I - SEMESTER	28	15	53%
2	Animal Diversity- Vertebrates & Developmental Biology	Sri.Ch. Narayana Reddy	III - SEMESTER	26	23	88%
3	Physiology and Biochemistry	Sri.Ch.Narayana Reddy	V- SEMESTER	20	19	95%
4	Applied Zoology	Sri.Ch.Narayana Reddy		20	19	95%

Table 12: Subject wise and Teachers wise Result Analysis-2018-19 (B.Sc. (Zoology)-TM) Semester-II, IV & VI

Sl.No	Subject	Name of the Teacher	Semester/ Year	Appeared	Passed	%
1	Ecology, Zoogeography & Animal behavior	Sri.Ch.Narayana Reddy	II- SEMESTER	30	15	50%
2	Cell and Molecular Biology, Genetics, Evolution	Sri.Ch.Narayana Reddy	IV- SEMESTER	30	15	50%
3	Immunology and Animal Biotechnology	Sri.Ch.Narayana Reddy	VI- SEMESTER	21	17	80%
4	Aquatic Biology	Sri.Ch.Narayana	VI- SEMESTER	20	20	100%

3.1 Innovation Ecosystem

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 Projects (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 study project. In the year 2017-18 the project entitled 'Adsorption and removal of dyes by micro organisms: A Study of Rajanna Sircilla' was selected for the State level Second prize. Indeed, this initiative certainly creates and transfers the knowledge in research eco-system of the college.

3.2 Extension 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, Bhagya

Health Club, Red Cross, Consumer Club, Swachh Bharath, Telanganaku Haritha Haram, Aids Awareness, Gender Issues, TSKC and IQAC Activities etc.



3.3 Collaboration

Table 16: Number of Linkages for Faculty Exchange, Student Exchange, Field Trip

Sl.No	Name of the Programme	Name of the partnering institution/ industry	Date
1	Field Trip	Gollawagu Project , Bheemevaram, Jaipur	22-01-2015
2	Field Trip	Seri Culture plant visiting ,Lambadpally, Chennai	18-12-2016
3	Field Trip	Central Silk Board , Chennai	29/11/2017



3.4 Memorandum of Understanding (MOU)

Table 17: Memorandum of Understandings (MOUs) by CCE

Sl.No.	Organization which MoU is Signed	Name of the Institution	Year of Signing	Duration
1.	Central Silk Board, Chennai	Central Silk Board, Chennai	2019	2 Years

CRITERION-4: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

Spacious Class

The department is located in the ground floor of the New building of the college. It has about 1 classroom and a staff room with proper electrification, lights and fans, latest green boards, dual desks, spacious and fully ventilated classroom in the ground floor.

Digital Class

The CCE has sanctioned Digital Classroom to the Zoology Department in the year 2019. A Smart-board with projector and computer system with speakers is installed in room . It is expected the students to learn the advanced topics with the help of audio-visual mode of teaching. At the students can show the



4.2 Departmental Library as a Learning Resource

Department

There is a separate departmental library for the Zoology students with Zoology subjects/ titles besides the

college main library.

Books: The departmental library is having 50 books in the concerned subjects for reference both for staff

and students to facilitate teaching and learning. English Medium Books: 20 Plus and Telugu medium books: 30 Plus

Journals: Various Journals pertaining to Zoology concerned are being maintained in the College Library.

4.3 IT Infrastructure

Maintenance of Campus Facilities

CCTV Camera and Surveillance

Presently, there is a CC Cameras installed in the corridor of the ground floor in the new building where

the department is located and installed in the classrooms covering the students and staff movements to enhance the protection from untoward incidents.



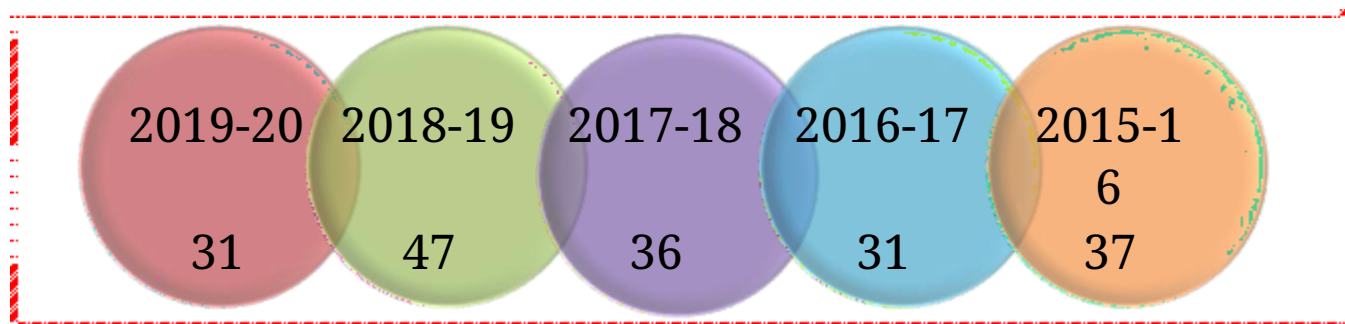
CRITERION-5: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

Student Support

Number of Students Benefited by Scholarships and Free-ships provided by the Government during the last five years

Chart 7: Students Benefited by Scholarships provided by the Govt. during the last five years



Number of Capability Enhancement and Development Schemes

Students of 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:

Chart: 8 Capability Enhancement and Development Schemes

Representation of Students on Academic & Administrative Bodies/Committees of the Institution

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.

Chart 11: Representation of Students on Academic & Administrative Bodies/Committees of the Institution



5.3 Number of Awards Received by the

S.Yamuna of B.Sc.(BZC) student selected in Yuvatharangam cluster Level Cultural Programme held at

jammikunta in Academic Year 2017-18.

5.4 Alumni

Engagement

The college has alumni association which is a registered body actively functioning for the overall

development of the institution. There were a large number of students in the Alumni from the Zoology Department who often motivate and inspire the students with their valuable suggestions.

Criterion-6: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 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.

- ❖ To impart quality education to the socially and economically backward students and to develop self confidence, self reliance, communication and employability skills and to inculcate knowledge, wisdom, and values of democracy, justice, liberty, fraternity and humanism.
- ❖ To cater to the academic needs of all the sections of the society and to mould the students as responsible citizens with social awareness.
- ❖ To achieve academic excellence by involving well qualified, abundant experienced and dedicated teaching fraternity.
- ❖ To adopt the student-centric and outcome based learning methods coupled with ICT to equip the students with required knowledge and skills.
- ❖ To expand the infrastructural and academic facilities required for advanced learning.

Profile of Department of Zoology, GDC, Chennai

- ❖ As there are no PG courses sanctioned in any of the colleges in entire Mancherial District, it is felt that there is a dire need to introduce the PG Course i.e., M.Sc. as most of the students are going far-away places for pursuing their PG Course.
- ❖ The Department of Zoology is planning to conduct a National Seminar on current topics in the days to come.
- ❖ 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 in the concerned subjects.

Table 19: Participation of Department Teachers in various Committees (Current Year)

Sl. No	Name of the Teacher	Designation	Committees	Responsibility
1	CH. NARAYANREDDY	ASSOCIATE PROFESSOR IN ZOOLOGY & FAC PRINCIPAL	NSS	CHARMAN
			Red Ribbon Committee	CHARMAN
			Literary and Cultural Committee Yuvatharangam	CHARMAN
			Games & Sports Committee	CHARMAN
			Eco Club Committee	CHARMAN

5. Performance Appraisal System

1. Performance Appraisal of the 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 Teachers 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, Peer and the Principal is also collected and analyzed

for sending the proposals for the Best Teacher award under the Yuvatharagam Program organized by the

CCE, Hyderabad. **Table 22: Teacher-wise Feedback Analysis Overall**

Sl. No	Name of the Teacher	Feedback Analysis Overall Response in %				
		2015-16	2016-17	2017-18	2018-19	2019-20
1	Sri.D.Krishna Gopal Rao	37% V. Good	37% V. Good	-	-	-
2	Sri.Ch.Narayana Reddy	-	-	72% Excellent	71.2% Excellent	72% Excellent

6.6 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 fronts during the last five years.

Department of Zoology has played a significant role in adopting the following initiatives by the IQAC:

Chart 12: Adoption of Initiatives by the IQAC

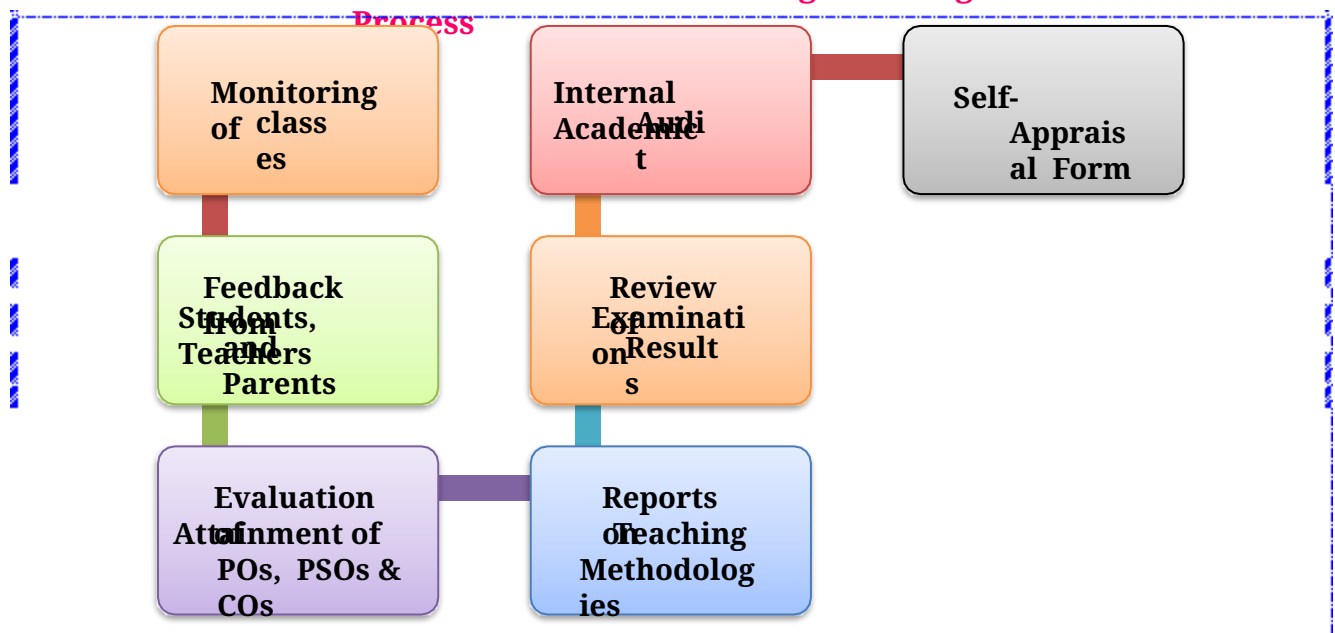
Profile of Department of Zoology, GDC, Chennai



6.7 Review of Teaching Learning Process, Structures & Methodologies of Operations and Learning Outcomes at Department of Zoology:

The Institution reviews teaching learning process at Department of Zoology through the following methods:

Chart 13: Review of Teaching-Learning Process



6.8 Incremental improvements registered by Department of Zoology during Post accreditation period:

- Quality in Teaching-Learning Evaluation has been improved

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- Digital Classroom has been created
- Research eco-system has been developed with JIGNASA Student Study Projects
- B.Sc.(BZC) Admissions were increased as compared to 2018-19 with sincere participation of staff in 'Door to Door Admission Campaign' in 2019-20 and Hon'ble Commissioner of Collegiate Education Sri. Navin Mittal appreciated the efforts.

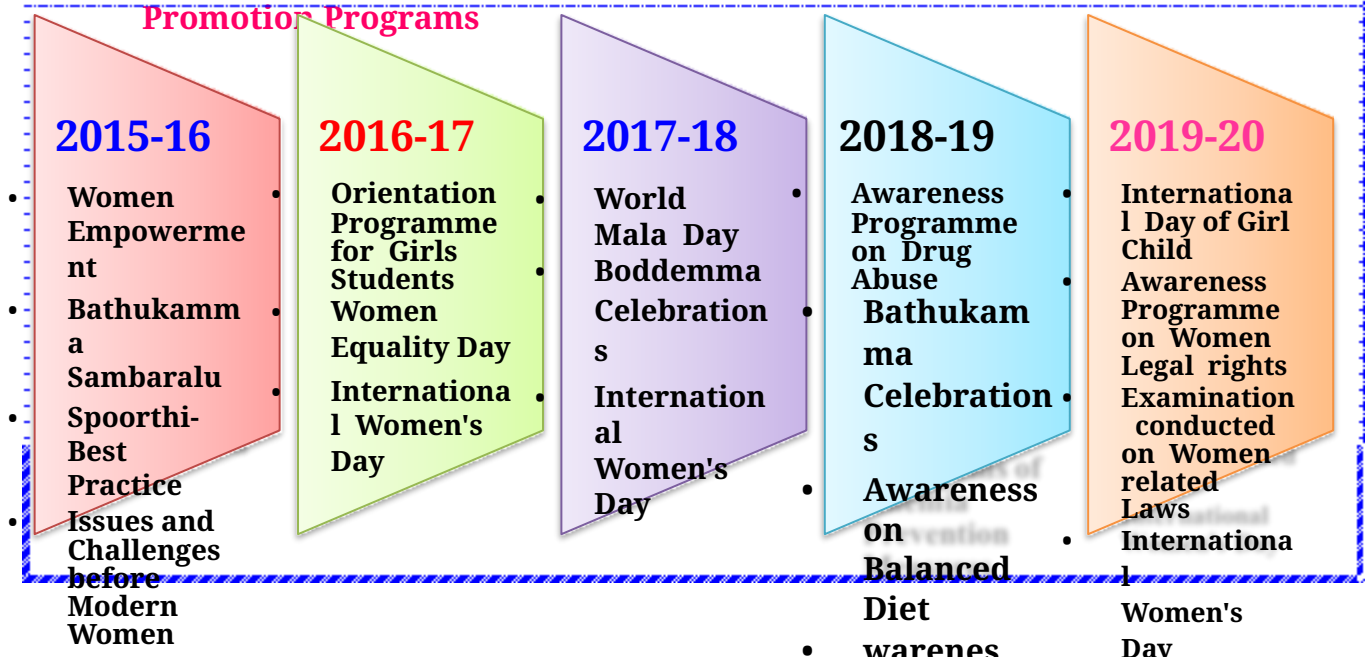
Criterion 7 - INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 Zoology Students Participation in Gender Equity Promotion Programs:

The Department of Zoology practices Gender Sensitivity and Gender Equity through various facilities and

programs

Chart14: Zoology Students Participation in Gender Equity Promotion Programs



2. Annual Lighting Power Requirements Met Through LED Bulbs:

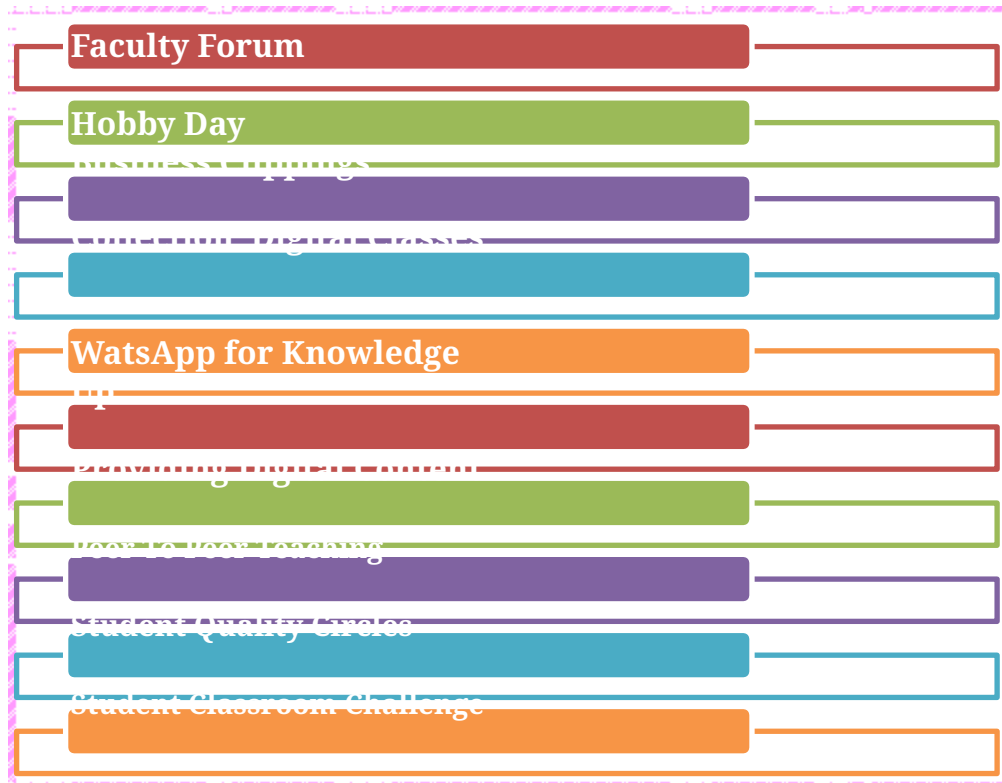
3. Waste Management Techniques

The Staff and Students of the Department of Zoology increasingly adopt the Waste Management

Techniques introduced by the College for reducing pollution and improving resource efficiency.

Profile of Department of Zoology, GDC, Chennai

can work hard for the prosperities and for the development of the nation. The Department of Zoology encourages all the students to participate in these festivals.



7.8 Plan of Action for the Next Five Years

- ❖ Department will strive hard to improve the admissions in the ensuing academic year.
- ❖ Planning to conduct National Seminar/ Workshop.
- ❖ Introduction of Certificate Courses and Value Added Courses to add value to existing knowledge.
- ❖ Planning to conduct more Field Visits and Study Tours in order to give first hand exposure.
- ❖ Students will be encouraged to undertake more study projects as part of JIGNASA Student Study Project programme.
- ❖ Department will forge to have linkages with Industries and Academia.
- ❖ Department will contemplate to arrange more number of extension lectures on latest and current topics related to Zoology and Business Management by inviting expert speakers in the concerned field.
- ❖ Department strives to introduce P.G. Course in Zoology i.e., M. Com in the days to come with a view to satisfy the demand from the students of this region.
- ❖ Department will try it level best to provide innovative teaching-learning methods for effective teaching.
- ❖ Planning to provide coaching for P.G Entrance and Competitive Examinations related to the Zoology.

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APPENDICES

APPENDIX-1: TEACHERS' PERSONAL PROFILES

APPENDIX-2: DEPARTMENTAL TIME-TABLE (CURRENT

YEAR) APPENDIX-3: ZOOLOGY (CBCS) SYLLABUS AND

STRUCTURE

CONTRIBUTION TO ACADEMIC ACTIVITIES:

- ❖ Member of Science Quiz Programme conducted as part of Science day.
- ❖ Active Participation in Field Visits arranged by the Department of Zoology.

PARTICIPATION IN SOCIAL ACTIVITIES:

- ❖ Actively participated in Swachh Bharath Programme at College Level.
- ❖ Participated in Telanganaku Haritha Haram (THH), the flagship programme launched by the Govt. of Telangana at College Level.
- ❖ Participated in International Day of Yoga on 21st of June...
- ❖ Dept. of Zoology, encouraged to plant saplings at GDC, Chennai as part Haritha Haram Programme to increase the green cover.



(D.KRISHNA GOPAL RAO)

Personal Profile

BIO – DATA

1. Name : Sri. D.KRISHNAGOPALRAO, M.Sc.,M.Phil
2. Designation : Lecturer
3. Date of Birth : 01-08-1972
4. Graduation : Ggovernment Degree College Mancherial
5. Post Graduation : M.Sc., Zoology
Specialization:
Entomology
Swami Ramanand Teerth
Maratwada University,
Nanded
6. First Appointment : MAHARASHTRA, INDIA
Govt. Degree College ,
Mancherial
Appointment as Lecturer in
zoology
Government Degree College,
Mancherial,
From 2005 to 2012
Government Degree College,
Chennai
From: 2013 to 2016
Kakatiya Govt. College,
Hanamkonda.
7. Working Places

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APPENDIX-3: DEPARTMENTAL TIME-TABLE DAY-WISE

Day/ Period	I 10.00- 11.00	II 11.00.- 12.00	III 12.00- 1.00	1.00-1.30	IV 1.30-2.30	V 2.30-3.30	VI 3.30-4.30
Mon	II YEAR	III YEAR	I-Year	LUNCH		III YEAR PRACTICAL	
Tue	II YEAR	III YEAR	I-Year		II YEAR	II YEAR PRATICAL	
Wed		III-Year	I-Year			I Ist YEAR PRACTICAL	
Thu		III-Year	I-Year				
Fri		III-Year	-			III YEAR II PRACTICAL IV PAPER	
Sat		III-Year	-				

APPENDIX-4: ZOOLOGY STRUCTURE UNDER CBCS



KAKATIYA UNIVERSITY HANAMKONDA, TELANGANA STATE, INDIA DEPARTMENT OF Zoology

STRUCTURE OF UNDER GRADUATE COURSES (All Streams) under CBCS w.e.f. ACADEMIC YEAR 2016 -17

Year	Semester	Paper		Title of the paper	No. of Credits	Exam Hrs	I. A.	End Exam	Total
I	I	Paper-I	Core I Theory	Animal Diversity- Invertebrates	4	3	20	80	100
			Core I Practical	Animal Diversity- Invertebrates	1	2	-	25	25
	II	Paper-II	Core II Theory	Animal Diversity- Vertebrates	4	3	20	80	100
			Core II Practical	Animal Diversity- Vertebrates	1	2	-	25	25

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II		Paper-III	Core III Theory	Animal Physiology, Animal Behaviour, and Developmental Biology	4	3	20	80	100	
		III	Core III Practical	Animal Physiology, Animal Behaviour, and Developmental Biology	1	2	-	25	25	
			SEC I	Sericulture / Aquaculture	2	2	10	40	50	
			SEC II	Clinical Science / Health and Hygiene	2	2	10	40	50	
		IV	Paper-IV	Core IV Theory	Cell Biology, Genetics, Evolution and Zoogeography	4	3	20	80	100
				Core IV Practical	Cell Biology, Genetics, Evolution and Zoogeography	1	2	-	25	25
				SEC III	Apiculture/Poultry and Animal Husbandry	2	2	10	40	50
				SEC IV	Vermiculture Biomaterials from Animal resources	2	2	10	40	50
	III	V	Paper-V	DCE I Theory	Physiological Chemistry / Immunology / Diagnostic Methods of Parasites / Animal Bio-Technology	4	3	20	80	100
				DCE I Practical	Physiological Chemistry / Immunology / Diagnostic Methods of Parasites / Animal Bio-Technology	1	2	-	25	25
			GE I Theory	Preventive Medicine / Integrated Pest Management / Health and Hygiene	4	2	20	80	100	
		Paper-VI	DCE I Theory	Fisheries / Limnology / Vector Biology / Laboratory Animal Maintenance and Applications	4	3	20	80	100	
			DCE I Practical	Fisheries / Limnology / Vector Biology / Laboratory Animal Maintenance and Applications	1	2	-	25	25	



Students Placement

1. **Higher Education:** - Most of our students are perusing higher studies in different universities.
2. **M.Sc. Zoology** Kakatiya University
Satavahana University
3. **M.Sc. Zoology** All Universities in
Telangana
4. **B.Ed.**

DEPARTMENT OF ZOOLOGY

ACTION PLAN FOR THE YEAR 2020-2021

1. To identify the academically backward students and give Remedial coaching.
2. It is proposed to start a Certificate Course (6 months duration) in medical Lab Technology to benefit the students of III Year Clinical Pathology Students for which proposal has been sent.
3. Proposal has been submitted for the Minor Research Project.
4. To arrange field trips for III Year students to study the Ecosystem and the various ecological parameters pertaining to Ponds, Lakes and Rivers.
5. To encourage the students to take up many Project works and to prepare modules.
6. It is proposed to visit EMU (a rare and flightless bird and ancestor of Dinosaur) farming centre at Katnepally, Sultanabad mandal, Karimnagar district along with II and III Year students.
7. To organize Extension Lectures by inviting eminent Physicians, Pathologists in and around Karimnagar town and also academicians from the affiliated Kakatiya University, Warangal.
8. To give guidance and training to the outgoing final year students on various career opportunities including self employment schemes.

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9. More emphasis will be given to encourage the students to participate in tutorials and seminars by them.
10. To encourage the students to participate more in NSS Programmes state Govt. Programmes like clean and green etc. and to involve in community services.
11. To conduct extracurricular activities like Quiz, Essay Writing & Elocution Competitions among the students to create Competitive awareness.
12. To organize a “Blood Donation Camp” in the department by taking the assistance of Health Centre of the college.