

PROFILE OF THE DEPARTMENT

- 1. Name of the Department & its year of establishment:** Zoology & 1981
- 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :**
 - B.Sc., B.Z.C (Botany, Zoology, Chemistry) both Telugu and English Media and B.Sc., ,B.Z.C (EM only)
- 3. Interdisciplinary courses and departments involved:**

Interdisciplinary Elective : Health Management
- 4. Annual/ semester/choice based credit system :** Semester system
- 5. Participation of the department in the courses offered by other departments:** yes.
 - Departments of Botany, Biotechnology, MicroBiology and Chemistry
- 6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)**

	Sanctioned	Filled
Associate Professors	02	02
Asst. Professors	01	01

- 7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./ Ph.D. /M.Phil. etc.)**

Name	qualification	Designation	Specialization	Experience
Dr.B.Sivarama Krishna	M.Sc.,M.Phil., Ph.D.	Associate Prof.	Animal Physiology	29 years
Dr.S.Murali Mohan	M.Sc.,Ph.D.,	Associate Prof.	Marine Zoology	29 years
E.Sireesha	M.Sc., B.Ed.,	Assistant Prof	Animal Physiology	7 years

- 8. Percentage of classes taken by temporary faculty – programme-wise information - 10% by guest faculty**
- 9. Programme-wise Student Teacher Ratio**

48:1
- 10. Number of academic support staff (technical) and administrative staff:**

sanctioned and filled: Lab assistants 2.

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise : Nil

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received : Nil

13. Research facility / centre with : Basic research facility is available but not recognized: Nil

14. Publications:

- Number of papers published in peer reviewed journals (national / international) :

Dr. B.Sivarama Krishna : $20+10 = 30$

Dr. S.Murali Mohan: $4+2 = 6$

- Chapter(s) in Books:

Dr. B. Sivarama Krishna:

- 2 Chapters (Titled Text Book of Zoology, Spectrum Publications - (ISBN-978-93-80831)
- Text Book of Zoology – B.Sc., I & III year - Spectrum Publications

Dr. S.Murali Mohan:

- 2 Chapters (On going book titled Text Book of Zoology Spectrum Publications AN ISO 9001:2008 Certified company, 326/C, S.R.Nagar, Hyderabad-38.)

- Editing Books : 3 books by Dr.B.Sivarama Krishna
- Impact factor – range / average 1.02

15. Details of patents and income generated : Nil

16. Areas of consultancy and income generated : Nil

17. Faculty recharging strategies: Adopted the following strategies to recharge and update:

- Participation in national and international seminars, workshops and symposia
- Attending orientation courses conducted by Academic staff colleges
- Study tours to Research Centers along with students and study field trips.
- Discussions and interactions with resource persons invited to seminars or guest lectures on recent trends.

18. Student projects

- **percentage of students who have done in-house projects including inter-departmental: 5%.**
- **percentage of students doing projects in collaboration with industries / institutes : 5%**

19. Awards / recognitions received at the national and international level by

- Dr.B.Sivarama Krishna, was awarded State Meritorious Teacher award by the Government of Andhra Pradesh in 1994 and Best Scientist award by National Environmental Science Academy, New Delhi.

20. Seminars/ Conferences/Workshops organized and the source of funding (national /International) with details of outstanding participants, if any.

- A Seminar on Career Opportunities in Life Sciences by Prof. Dayanand, HCU. HYD Funded by the College Management:
- One day seminar on B-Cell & T-Cell pattern of antigen reorganization, responses & consequences by Dr.D.V.R.Prasad, YV University, Kadapa Funded by the College Management:
- A Workshop on PCR Technology : Funded by the College Management
- Workshop on Fruit Preservation Technology : Funded by the UGC-CPE grant.

21. Student profile course-wise:

Name of the Course	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc.,	115	29	82	75%	79%

22. Diversity of students

Name of the Course	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
B.Sc.,	10%	90%	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

- Ramanujam Fellowship – 1
- NET - 1
- APSET - 1
- INSPIRER fellowship awarded by DST - 1
- State Civil services - 3

24. Student progression

Student progression	Percentage against enrolled
UG to PG	18%
PG to M.Phil.	2%
PG to Ph.D.	5%
Ph.D. to Post-Doctoral	1-2%
Employed	
Campus selection	2%
Other than campus recruitment	40%
Entrepreneurs	2-5%

25. Diversity of staff

Percentage of faculty who are graduates	
from other universities within the State	100%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

NIL

27. Present details about infrastructural facilities

- a. **Library:** Good general library with more than 450 titles, 3 journals and good number of reference books. Adequate departmental Library with 150 titles and 190 volumes
- b. **Internet facilities for staff and students :** Yes, internet is available both in staffroom, and classroom
- c. **Total number of classrooms:** 2 laboratories cum classrooms and 1 smart classroom
- d. **Class rooms with ICT facility :** Smart classroom with information and communication technology is available to the students with a computer, internet and LCD projector
- e. **Students' laboratories:** Two
- f. **Research laboratories :** One

28. Number of students of the department getting financial assistance from College:

90% of the students covered by govt. welfare scholarships/endowments/SBF

29. Was any need assessment exercise undertaken before the development of new program(s)?

NIL

30. Does the department obtain feedback from

- a. The Department obtains feedback from students, colleagues and through self-reflection. It frames/updates the curriculum and evaluation methods based on the need and the same is placed in its Board of Studies meeting with subject experts. The curriculum approved by the Board of studies will be placed before Academic council. The council with experts drafted from different fields will approve the same with or without modification after fruitful discussions. The department will bring in the necessary changes in curriculum or evaluation methods, if suggested in Academic Senate.
- b. The students are at liberty to express their opinion whether the topic delivered was understood by him or not.
Hence it is a continuous feedback for staff. This facilitates the teacher for continuous assessment. Feedback is also obtained after completing the instruction in a specified format. The information in the form of feed back is analyzed, interpreted and discussed in staff meetings and flaws are rectified/suggestions if found worthy are implemented.
- c. **Alumni feedback:** Alumni openly admit whether the curriculum they studied was relevant to their career (Or) not.

We solicit Suggestions from alumni either individually or in a group. The Department invites alumni to interact with present students to share their experiences and their suggestions are taken on present curriculum, teacher and learning abilities of students and are used in strengthening the department.

Employer feedback:

- As the college is managed by a Trust, The Correspondent and the secretary of the college continuously monitors the department.
- Staff meetings are conducted frequently.
- Results, student progress, discipline and the role of department in strengthening the college as a unit, and department in particular are discussed
- Suggestions and instructions given to the department in general and individual faculty member in particular will be discussed in the Department staff meetings and will be implemented in Toto.

31. List the distinguished alumni of the department (maximum 10)

- Dr. D.Vijaya Raghava Prasad (Ramanujam Fellow), Associate Professor, Yogi Vemana University, Kadapa, A.P
- T.K.Ramamani, Dy.Collector, DRDA, Anantapur.
- B.Chandra Shekar Naidu, Project manager, Tech Mahindra, Pune
- G.V.Sarathi Babu, Assistant General Manager, MSN Pharma, Hyderabad.
- P.Mahesh Kiran, India Head L&D, Unisys's Technologies, Bengaluru.
- Mrs.Suneetha,R.D.O, A.P. Secretariat , Hyderabad
- Dr. Jayant Babu , Dentist, Dharmavaram
- G. Rajendra Prasad, Inspector of Police, Rayachoti, Kadapa District, A.P.
- S. Baba Fakruddin, Junior Civil Judge, Rayachoti, Kadapa District, A.P.
- Y. Venugopal Reddy, Municipal Commissioner, Gadwal.
- Dr.U.Ramesh, Scientist. IICT, Hyderabad

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts

- Diversified programmes to enrich students are taken up by the department under zoology club named 'PURSUIT'
- The club organizes Quiz programmes, Student seminars and carries out extension activities to enrich the knowledge of students and keep them abreast of the latest who is who, what is what in the competitive world.
- Two work shops were organized to make them aware and learn expertise in the field which is highly demanding and in vogue at present *Viz.*, a) Hands on PCR Technology. b) Food preservation technology.
- The students were selected to participate in seminars and quiz competitions conducted in different colleges where they have published papers and won prizes.
- As part of extension education the students were taken to organizations viz.,
 - AP Dairy Development Corporation to make them learn the technology of milk processing and preservation
 - Dr. N.G. Ranga Agriculture University, Rekulakunta, to gather first hand information on vermi compost preparation
 - Awareness programmes and seminars were arranged by experts in their respective fields to impart academic support and knowledge about health, environment, personality development, soft skill development, career counselling *etc.*,

33. List the teaching methods adopted by the faculty for different programmes

Apart from regular Black board teaching we employ different teaching methods to teach different topics to make the topic more meaningful and interesting *Viz.*,

- Using working models and still models
- Using roll up charts
- Using OHP
- Using LCD
- Adopting traditional questioning method and flash cards
- Providing E-resources.

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored

Learning outcome is monitored by

- student oral response
- student evaluation by both internal assessment and external assessment
- repetition of the content for those who desire and for the benefit of slow learners.
- peer evaluation of assignments submitted by slow learners. This provides an opportunity for the Peers to go through the subject during evaluation which will be a sort of repetition for advance learners.

- It also gives insight regarding the quality & standard of the slow learners, so that necessary steps will be taken for improving the academic standards of slow learners.

35. Highlight the participation of students and faculty in extension activities

- The students are encouraged to participate in various curricular, co-curricular and extra-curricular activities especially in the community service.
- They are encouraged to donate blood to the needy. The Govt. hospital and nearby colleges depend on the department of Biology for rare blood groups and emergency blood donation which maintains the data base for the same.
- Dr.S.Murali Mohan, himself served as an NSS programme officer, NSS District Programme Officer, President, Lions Club Of Anantapur, Secretary, Bharath vikas parishad, Anantapur, Life member, Red cross Society, Anantapur, District Coordinator CTAP encourages students to participate in various activities pertaining to service. Associated with a permanent project named '**Vikalong punarvas yojana**' under the aegis of BVP that distribute working limbs (artificial) every year to (minimum 25) beneficiaries on the birth day of Swami Vivekananda. He is also a blood donor and has donated blood 57 times till date.
- Dr.B. Sivarama Krishna of the Department was a Judge, District level science fairs and associated with training students, with their project work. Organized state level adolescent quiz.
- The students bagged prizes in cultural activities both at university and state level.
- Science exhibition was conducted to local school children by the Department.
- School teachers are given training under Lab to Land programme under CPE.
- As programme officer Dr.S.Murali Mohan organized Blood grouping and free dental camps in villages -Bommeparthy and Itukalapally.

36. Give details of “beyond syllabus scholarly activities” of the department

Department follows the following methods meticulously regarding 'beyond syllabus scholarly activities':

- Interactive sessions with Alumni, who are pursuing higher education or settled in different fields such as teaching, research, entrepreneurship, working with pharmaceutical companies, trainers in corporate sector and in Government services.
- Involving the students in student project works.
- Organizing workshops and seminars with resource persons of good repute in their field.
- Made it a point to impart ethical values by arranging sessions with eminent people who are experts in this field.
- Involving students in the preparation of models using their creativity.

37. State whether the programme/ department is accredited/ graded by other agencies. Give details: No

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the Department:

Strengths:

- Motivated, well qualified, experienced and Committed staff.
- Well equipped modern Labs, spacious classrooms that provide good ambience for both the student and the teacher
- Study environment, updated, responsive curriculum, employee involvement with Student learning activities, student-centered learning resources.
- Endowment scholarships for Zoology students and Gold medals to encourage students.
- Affordability, accessibility, variety instructional delivery modes, career and personnel counseling, remedial coaching, respect, and recognition in the student community & society.

Weaknesses:

- Missing the guidance of senior staff due to Superannuation
- Dependence on part-time faculty coupled with heavy workload.
- Lack of strong career-related programs
- Lack of effective communication skills with students, as many of them come from Telugu medium and rural areas with little or no exposure to English

Opportunities:

- To impart practical training in job/employment oriented programmes like vermin-compost, Fish and prawn processing and preservation
- Using student assessment results to improve program quality. Expand student activities. Increase tutoring for student success.
- Introduction of Add on courses based on the local needs to strengthen the student employability
- Effective use of web technology for the student and the teacher progression
- Reunions as opportunities to reconnect with alumni and strengthen the department.

Challenges:

- Coping with the modern trends in science and technology.
- Drift of intelligent students to other areas after +2 level is leading to the entry of mediocre students into basic science degree programmes.
- Low sense of participation of students in various activities
- Lack of awareness amongst students
- Attracting creamy students towards basic science and improving communication problems.

39. Future plans of the department.

- Proposal to start M.Sc., Zoology
- Establishment of a Research Center
- Introduction of self-employable add on courses viz., Lab technician course, food processing and preservation etc.,
- Strengthen the department with equipment and literature by getting research projects
- Involving more number of students in basic research