

PROFILE OF THE DEPARTMENT

- 1. Name of the Department** : Microbiology
- 2. year of establishment** : 1994-1995
- 3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

UG: Microbiology – Biotechnology – Chemistry (English medium)

- 4. Interdisciplinary courses and departments involved:**

Interdisciplinary Elective: Microorganisms – Human Life

- 5. Annual/ semester/choice based credit system:**

Semester system

- 6. Participation of the department in the courses offered by other departments:**

- Curriculum development, Instruction and Evaluation

- 7. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)**

	Sanctioned	Filled
Asst. Professors	01	01

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

Name	Qualification	Designation	Specialization	No. of Years of Experience
Dr.G.Sai Ramalinga Reddy	M.Sc,M.Phil,Ph.D	Asst. Professor	Immunology	18

- 9. Percentage of classes taken by temporary faculty – programme-wise information:**

UG Program – 10% (guest faculty)

- 10. Programme-wise Student Teacher Ratio:** 30 : 1

- 11. Number of academic support staff (technical) and administrative staff: sanctioned and filled:** One Lab assistant.

12. 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

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

NIL

14. Research facility / centre with:

NIL

15. Publications:

- **Number of papers published in peer reviewed journals (national / international)**
Ten papers are published in National / International journals.
- **Chapter(s) in Books**
4 Chapters in Introductory Microbiology (for Ist B.Sc) published by Telugu akademi. Govt of Andhra Pradesh.

16. Details of patents and income generated: NIL

17. Areas of consultancy and income generated: NIL

18. Faculty recharging strategies:

- Participated in refresher courses, seminars, workshops/ symposia conducted by various Colleges, Universities and Research institutions.
- Accompanied students in educational tours to research institutions like OTRI, JNTU, Acharya N.G Ranga University, Regional Sericulture Research Institute etc.

19. Student projects

- **percentage of students who have done in-house projects including inter-departmental: 20%**
- **percentage of students doing projects in collaboration with industries / institutes: 2%**

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

- **Faculty**
- **Doctoral / postdoctoral fellows**
- **Students**

NIL

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

- Student advanced learning work shop on Hands on experience on PCR technology was organized in collaboration with other Biology

departments funded by the college management.

- A Workshop on fruit preservation technology was organized in collaboration with other Biology departments funded by the college management.
- A National Seminar on ‘Challenges in life sciences in recent era’ was organized jointly by the Departments of life sciences of our college.

22. Student profile course-wise:

Name of the Course	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc.,	17	04	13	85	89

23. 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%	--	--

24. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? --- 4 Students

25. Student progression

Student progression	Percentage against enrolled
UG to PG	75%
PG to M.Phil.	5%
PG to Ph.D.	10%
Ph.D. to Post-Doctoral	
Employed	10%
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	
Entrepreneurs	

26. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	100%

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

One

28. Present details about infrastructural facilities

- a) **Library** : Departmental library is maintained.
- b) **Internet facilities for staff and students** : Yes
- c) **Total number of class rooms** : Two
- d) **Class rooms with ICT facility** : One
- e) **Students' laboratories** : Two
- f) **Research laboratories** : No

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

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

30. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

31. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Yes, as the Institution is an autonomous one, the faculty of the department along with outside subject experts frame the curriculum and evaluation methods in its Board of studies meeting. The same will be placed before Academic council & the department will bring the changes in curriculum or evaluation methods if suggestions are given by Academic council.

b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Yes, the department obtains feedback from the students on staff, curriculum and teaching- learning evaluation. With regard to methods of teaching, curriculum and evaluation, they are satisfied.

c. Alumni and employers on the programmes and what is the response of the department to the same?

We obtain feed back from alumni about the programs. They feel that it was useful in their life. The Department invites alumni to interact with the present students and suggestions are taken on curriculum, teaching methods and are used in strengthening the department.

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

- N.Siva Ramaiah, Scientist Onan Biotech / Hyd.
- M.Naga Raju ,Analyst Fidelity Corporation / Bangalore.
- C.Mamatha, Research scientist, California,USA.
- G.Lavanya ,Research scientist, California,USA.
- Vikas Jawalkar, Biocon India Pvt Limited, Bangalore.
- Y C B Sekhar Reddy. Sub-Registrar / Anantapur
- M.Sashi Kiran, Lecturer, Chippagiri / kurnool
- T.Balaji , Teacher
- K. Lalitha Vandana , Clinical Data Management ,Bangalore.
- P.Surendranath Reddy, MNS Pharma Ltd,Hyderabad.
- P.R.Vijayasimha Reddy, Nexux Test Labs, Bangalore.
- K.Saritha, Senior Manager, TTK Health care, Chennai.

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

Guest lectures: Guest lectures were conducted by inviting following Professors and scientists.

- Prof. K.Venkateswarulu: Professor,SKU.
- Prof. R.Rajasekhar Reddy: Professor,SKU.
- Prof. B.Venkatappa: Professor,SKU.
- Prof. S.Dayananda: Professor, HCU.
- Dr.Veerabramha chari: Assistant Professor, Krishna University.
- Dr.N.Siva Ramaiah, Scientist Onan Biotech.

Workshop: Workshops were conducted on PCR technology, Fruit preservation and Bioinformatics.

Field trips: Visited research laboratories in S.K University

- Sericulture Research Institute, Raphthadu.
- OTRI, Anantapur.
- Local dairy Industries.
- Krushi vignana Kendra, N.G Ranga Agricultural university, Reddi palli

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

Apart from regular lecture method, models, charts, OHP, LCD projector are used.

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

Learning outcome is monitored by conducting Internal examinations, seminars, quiz, group discussions and slip tests.
Remedial coaching is given to slow learners.

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

- a. Students of the department are actively involved in various special camps conducted by the college like health camps, traffic control assistance, blood donation camps, clean and green program etc.
- b. Some Students of the department are active members of NSS & NCC.
- c. Dr.G. Sai Ramalingareddy (Faculty of the department) served as a member,NSS committee and participated actively in clean and green programs, awareness programs and blood grouping organized in Bommeparthi and Siddarampuram villages. Being a member of lions club of Anantapur, participated in mega health camps and is associated with free lions diagnostic centre which is offering service to the poor and needy.

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

- a. Involving students in basic research projects.
- b. Taking students to field trips and research institutes.
- c. Organizing workshops and seminars with experts.
- d. Organizing interactive sessions with alumni who are settled in areas like teaching, research and Industry.

38. State whether the programme/ department is accredited/ graded by other agencies. Give details.

39. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths

- Dedicated and qualified faculty.
- Well equipped laboratory.
- Financial aid and scholarship availability.
- Gold medals to encourage students.
- Career coaching and recruitment efforts.
- Add on courses to strengthen the student employability.

Weakness:

- Lack of long standing faculty.
- Lack of exposure of students to renowned research institutes & Industries.

Opportunities

- Students exposure to hands on experiments.
- Student exposure to different guest lecturers.
- Add on courses to strengthen the student employability.
- Students involvement in basic science research programs.

Challenges

- Decrease in student strength in biological stream at intermediate levels, which reflects on admissions into UG restructured courses in Biology.
- Retaining experienced, qualified faculty.

40. Future plans of the department.

- Strengthening the department with well qualified and experienced faculty.
- Equipping the lab with modern facilities.
- Planning to have collaboration with industries/institutes.
- Planning to start inter disciplinary certificate courses and courses of self employment like
 - Certificate courses in Immunological techniques.
 - Molecular Biology & Genetic engineering techniques.
 - Mushroom cultivation.