

PROFILE OF THE DEPARTMENT

- 1. Name of the Department & its year of establishment:** Biotechnology
Established :: 2003
- 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**
UG Program :: B.Sc. course (Biotechnology, Microbiology. Chemistry)
PG Program :: M.Sc. Biotechnology
- 3. Interdisciplinary courses and departments involved**
Interdisciplinary Elective – Applications of Bio-Technology
- 4. Annual/ semester/choice based credit system:** Semester System
- 5. Participation of the department in the courses offered by other departments**
 - Curriculum development, Instruction and Evaluation
- 6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)**

| | Sanctioned | Filled |
|------------------|------------|--------|
| Asst. Professors | 2 | 2 |

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

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D. students guided in the last 4 years |
|-------------------|----------------------|-------------|------------------|----------------------------|--|
| Dr. M. Padmavathi | MSc., MPhil., Ph.D., | Asst. Prof. | Plant Physiology | 18 | NIL |
| C. Sivaprasad | MSc., | Asst. Prof. | Biotechnology | 1 | NIL |

- 8. Percentage of classes taken by temporary/Guest faculty – programme-wise information**
PG Program – 50% : UG Program – 10%
- 9. Programme-wise Student Teacher Ratio**
UG Program – 30:1
- 10. Number of academic support staff (technical) and administrative staff: sanctioned and filled:** One Lab assistant

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: NIL

14. Publications:

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

15. Details of patents and income generated: NIL

16. Areas of consultancy and income generated: NIL

17. Faculty recharging strategies

Participated in Workshops, Seminars, and Refresher courses conducted by various colleges and universities. Accompanied students in educational tours for visiting Research institutions and Laboratories.

18. Student projects

- **Percentage of students who have done in-house projects including inter-departmental: 10%**
- **Percentage of students doing projects in collaboration with industries / institutes PG students: 4th semester is for project work.**

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

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

NIL

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

- Organized a National Seminar on Recent Trends in Biotechnology funded by the college management.
- A National Seminar on Challenges in the Life Sciences in Recent Era was organized jointly by the Departments of life sciences of our college, funded by the college management.

21. Student profile course-wise:

| Name of the Course (refer question no. 2) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| B.Sc., | 17 | 4 | 13 | 75 | 80 |
| PG | SVURPGCET | 0 | 0 | - | -- |

22. Diversity of students

| Name of the Course (refer question no. 2) | % of students from the College | % of students from the State | % of students from other States | % of students from other countries |
|--|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| B.Sc., | | 100 | | |
| PG | | - | | |

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

24. Student progression

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | 80% |
| PG to M.Phil. | 10% |
| PG to Ph.D. | 10% |
| Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment | 10% |
| Entrepreneurs | |

25. Diversity of staff

| Percentage of faculty who are graduates | |
|---|-----|
| of the same parent university | |
| from other universities within the State | 50% |
| from other universities from other States | 50% |

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 | :Yes |
| 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 | :Five |
| f. Research laboratories | :NIL |

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)? If so, give the methodology.

The number of available seats in various colleges is 120. No college is offering this course except university colleges. Hence students are distributed to other states to pursue this course. As our college has well equipped laboratories and qualified staff in life science departments, we intend to start an advanced course in life sciences i.e. M.Sc. Biotechnology.

30. Does the department obtain feedback from

- **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 with outside experts frames the curriculum and evaluation methods in its Board of studies meeting and the same will be approved by the Academic council. The teachers express satisfaction over curriculum evaluation methods etc.

- **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. We go through the feedback provided by the students and improvise accordingly.

- **Alumni and employers on the programmes and what is the response of the department to the same?**

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.

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

1. C. VijayaRanganath, Senior Scientific Officer, ICRISAT, Hyderabad
2. S. Syed Ahmed, Customer Service Associate, ICICI Prudential
3. S. Shireen, Senior Research Fellow, OTRI, JNTU.
4. S. OmPrakash, Single window Operator, Corporation Bank.

5. P. Amaranatha Reddy, Clinical Research
6. M. GopalaKrishna, Research scientist, Germany.
7. B. N.Prasantha Kumar, Research scientist,
8. M. Yugandhar, Assistant Manager, United Bank of India, Tirupathi.

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

Guest Lectures:

Guest lectures were conducted by inviting the following professors and scientists.

- Prof. S.Dayananda, HCU, Hyderabad.
- Prof. C.Sudhaker, SKU, Anantapur.
- Prof. G.H.Phillip, SKU, Anantapur.
- Dr. P.Sreenivasula Reddy, Senior Scientist, SRI, Anantapur.

Workshop:

Workshops were organized on PCR technology and Bioinformatics by Life Science departments.

Field Trips:

- Visited Research Laboratories of Botany and Biotechnology departments in SK University, Anantapur.
- Visited Sericulture Research Institute, Rappthadu.
- Visited Anantha Bio-Tech Plant tissue culture laboratory, Anantapur.
- Visited OTRI laboratories JNTU, Anantapur

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

Teaching methods like explaining, demonstrating, collaborating, learning by teaching were adopted with the help of charts, OHP, and LCD.

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

Learning outcome is monitored by conducting slip tests, quiz, seminars and internal examinations.

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

- Students of the department are actively participated in various special camps conducted by the college like health camps blood donation camps and clean and green program etc.
- Some students of the department are active members of NSS & NCC.
- Dr. M. Padmavathi has participated in a work shop on Capacity Building of Women Managers in Higher Education, organized by SK University, Anantapur.

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

Students undertook some mini projects and seminar presentations on their own interest and enthusiasm towards the subject.

37. State whether the programme/ department is accredited/ graded by other

agencies. Give details: NIL

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

Strengths

- Well-equipped laboratories.
- Qualified faculty.
- Good student progression.
- Supporting and encouraging management for organizing seminars and inviting guest faculty.

Weaknesses

- Lack of long standing faculty.

Opportunities

- Students are exposed to hands on experiments.
- Students are also exposed to different guest lectures.
- Students' involvement in basic science research programs.
- Staff member's interaction with academicians during seminars and guest lectures.

39. Future plans of the department

- Further strengthening of the department with well qualified experienced staff.
- Further equipping the lab for MSc programme.
 - Planning to start an Inter Disciplinary Certificate Course, in Molecular Biology&GeneticEngineeringTechniques.