

## PROFILE OF THE DEPARTMENT

- 1. Name of the Department & its year of establishment:** Botany Established in 1981
- 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):** B.Sc.,(Botany, Zoology, Chemistry ; both Telugu and English Media
- 3. Interdisciplinary courses and departments involved:** Interdisciplinary Elective: Plants in Human welfare
- 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
Associate Professors	02	02
Asst. Professors	02	02

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

Name	Qualification	Designation	Specialization	Experience
Smt.T.Umadevi	M.Sc.,M.Phil.,	Associate Prof.	Genetics and plant breeding	29
Dr.C.Prabhakara Raju	M.Sc.Ph.D.,	Associate Prof.	Plant Taxonomy	27
Lt.B.V.Ramana Naidu	M.Sc.,M.Phil.B.Ed.,	Assistant Prof.	Plant Taxonomy	20
G.Raja Reddy	M.Sc.,B.Ed.,	Assistant Prof.	Plant Taxonomy	01

- 8. Percentage of classes taken by temporary faculty:** 10% by guest faculty
- 9. Programme-wise Student Teacher Ratio:** 48:1
- 10. Number of academic support staff (technical) and administrative staff:**  
Sanctioned : 02; Filled 02.

**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. C. Prabhakara Raju : 17; Lt. B.V.Ramana Naidu: 6 . Total: 23
- **Chapter(s) in Books:** 1. Prabhakara Raju. C and R.R.Venkata Raju Asteraceae (Nom. Alt. Composite).In “Flora of Andhra Pradesh Vol.2 (T.Pulliah and Alimoulali, Eds. Scientific Publishers, Jodhpur, P.P. 505-543.
- **SJR : Rheedia:** 0.03
- **Impact factor – range / average :** 1
- **h-index : Rheedia :** 2

**15. Details of patents and income generated : Nil**

**16. Areas of consultancy and income generated : Nil**

**17. Faculty recharging strategies:**

- Attending Refresher courses, orientation courses conducted by Academic staff colleges
- Participating in national and international level seminars, workshops, symposia.
- Study tours to Research centers along with students and study field trips.
- Discussions with resource persons invited to seminars or guest lectures.
- Memberships in “Angiospermic Taxonomy and Freshwater Algal societies

## 18. Student projects

- Percentage of students who have done in-house projects including inter-departmental: 3-5%. (Fresh water algae, water analysis, Photochemistry, Plant taxonomy and Bioinformatics)
- percentage of students doing projects in collaboration with industries / institutes : Nil

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

Faculty: Dr.C.Prabhakara Raju, was awarded State Meritorious Teacher award by the Government of Andhra Pradesh in 2004

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

- A workshop on PCR technology ; funded by College Management
- A work shop on Fruit preservation technology; funded by college management
- A Seminar on Career Opportunities in Life Sciences by Prof. Dayanand, University of Hyderabad.
- Seminar on Chemical composition of Seeds by Dr. G.Azimuddin, former Director, OTRI.

## 20. Student profile course-wise:

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc.,	115	29	82	75	79

## 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.,	10%	90%	--	--

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

CSIR Fellowship-01.NET : 01 Defence services: 01

## 24. Student progression

Student progression	Percentage against enrolled
UG to PG	25%
PG to M.Phil.	4%
PG to Ph.D.	3%
Ph.D. to Post-Doctoral	1%
Employed	
Campus selection	2%
Other than campus recruitment	50%
Entrepreneurs	15%

## 25. Diversity of staff

Percentage of faculty who are graduates		
of the same parent university	2	50%
from other universities within the state	2	50%

## 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. Ph.D., work in progress; --- NIL

## 27. Present details about infrastructural facilities

- **Library** : Maintaining Departmental Library with 170 titles and 200 volumes
- **Internet facilities for staff and students** : available both in staffroom, and classroom
- **Total number of classrooms**: Two labs cum classrooms and one smart classroom
- **Classrooms with ICT facility** : A smart classroom with information and communication technology is available to the students with a computer, internet and LCD projector
- **Students' laboratories**: Two

- **Research laboratories : One**

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

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. No**

**30. Does the department obtain feedback form**

- The Department obtains feedback from students, colleagues and through self-reflection. The Department framed the curriculum and evaluation methods in its Board of Studies meeting with subject experts and the same will be placed before Academic council. The council, with experts in different fields and faculty of other departments, will approve the same with or without modification after fruitful discussions. The Department bring in the changes in curriculum or evaluation methods if suggestions are given.
- The students are at liberty to express whether each topic delivered has reached him or not. Hence it is a continuous feedback on staff; so that a teacher can continually adjust and improve his/her work. Feedback is also gathered after instruction has been completed in a specified format. Students are informed of the uses that may be made of the data. The information is analysed, interpreted and is discussed in staff meetings and flaws are rectified.
- Alumni feedback: Alumni openly admit whether the curriculum they studied was useful in their life or not. Suggestions are invited from them individually or from groups. The department invites alumni to interact with the present students and suggestions are taken on curriculum, teacher and learning capacities of students which 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 monitor the department. Staff meetings are conducted frequently. Results, student progress, discipline, requirements of the departments, departmental involvement in strengthening the college as a unit, role of the department and students to community development etc are discussed. Suggestions and instructions are given to the department or individual faculty member. The same are followed by the department.

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

- A.Chandrasekhar(Post Doc. University of Bologna, Italy),Assistant Professor, YogiVemana University, Kadapa, A.P
- VeeraBramhaChari(Post Doc. IISC, Bangalore, Queensland Institute of Medical Research, Rayal Bisbane Hospital, Brisbane, Queensland, Australia), Assistant Professor, Krishna University, Machilipatnam
- S.Hemakumar, Solution Architect manager, Cognigent technology solutions, Hyderabad.
- K.Sreenath, Deputy Manager, NATCO Pharma, Hyderabad.

- M.Jaganmohan Reddy, Deputy Manager, Ranbaxy Genotech laboratory, Hyderabad.
- Y.Suresh, Junior Manager, Dr. Reddy's Laboratories', Hyderabad.
- Munibhaskar, Junior Manager, Dr. Reddy's Laboratories', Hyderabad.
- G.Rajendra Prasad, Inspector of Police, Rayachoti, Kadapa District, A.P.
- S.Babafukruddin, Junior Civil Judge, Rayachoti, Kadapa District, A.P.
- B.Ravindra Reddy, Advocate, High court , Hyderabad.
- N.G.Pavan kumar Reddy, Post Doc. Harward University, U.S.A

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

- Professors and scientists are invited as guest faculty. Prof. Dayanand , Central University, Prof. T.Pullaiiah, Prof. RRV Raju, Prof.Sudhakar, and Prof. Raviprasad Rao from the Department of Botany, S.K.University, Prof.DVR Saigopal, Department of Virology,SV University, Dr.Chandrasekhar, Yogivemana University, Dr.Veerabhamhachari, Krishna University have been invited to deliver special lectures/seminars to enrich student knowledge.
- The resource persons from local research station of Acharya NG Ranga University, Jawaharlal Nehru Technological University, Anantapur, Oil and Technological Research Institute Anantapur are invited from time to time.
- Local Ayurvedic and Homeopathic doctors are invited to address on Indian Medicinal systems.
- Practical workshops have been conducted on PCR technologies, Fruit Preservation Technology, Bioinformatics, Herbarium methodology etc.

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

- Apart from regular glass board teaching, department is using models, charts, LCD projector with internet connection, Overhead projector, quiz, collection of subject related news clippings and discussions.
- Trinocular Microscope with CCD camera is used for practical purpose and digital images on the screen are captured to assess details.

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

- Learning outcome is monitored by conducting Internal examinations, Semester end examination, Slip tests ,Assignments, oral presentations, classroom discussions etc., Slow learners are given remedial coaching.
- Teaching is delivered in both media (English and Telugu) in Ist Semester for those Students who are unable to cope up with English medium.
- Presentation, delivery, and communication capacities are judged in student seminars and spot advices are given.

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

- Students are encouraged to participate in curricular, co-curricular and extracurricular activities especially in the community service.
- **Dr.C.Prabhakara Raju**, himself served as an NSS programme officer, NSS District Programme Officer, President , Lions Club Of Anantapur, Life member ,Red cross Society Anantapur, Coordinator and Mentor-Jawahar Knowledge Center, Coordinator –Career Guidance Cell, and Placement Officer.
- **Lt. B.V.Ramana Naidu**, of the Department, is Associate NCC Officer, Member, Lions Club of Anantapur, Life member, Red Cross Society, Anantapur.
- Students involve in special camps conducted in villages, health camps to the poor and the needy, traffic control assistance, several awareness rallies.
- Dr.C.Prabhakara Raju of the Department acts as a Judge, at the District Level Science Fares, associates himself with Nehru Yuva Kendra, in youth training programmes.
- Students bagged prizes in cultural activities both at university and state level.
- A Science exhibition was conducted to local school children
- School teachers are trained under Lab to Land programme of CPE.
- The Govt. hospital, nearby college depends on the Department of biology for rare blood groups and emergency blood donations to the poor and the needy.

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

- Interactive sessions with alumni, who are pursuing higher education or settled in subject areas, such as teaching, research, or working with pharma companies or as trainers.
- Involving the students in basic research.
- Organizing workshops and seminars with experts taking students to field trips, to research institutes and to local university.
- Involving students in the preparation of models, using their creativity.
- Discussions on subject newspaper clipping.

**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:**

- Spacious and highly equipped laboratories, classrooms, library and other learning facilities for both the teacher and the taught.
- Study environment, updated, responsive curriculum, employee involvement with student learning activities, student-centered learning resources.
- Financial aid and scholarship availability. Gold medals to encourage students.
- Variety instructional delivery modes, Career and personnel counselling and advising, remedial coaching, Clean and safe campus and laboratories.
- Caring, dedicated, highly educated and experienced, expert faculty, reasonable student teacher ratio, and convenient class schedule.

**Weaknesses:**

- Absence of replacements of grant-in-aid teachers on their retirement
- Reliance on part-time faculty and heavy workload.
- Lack of strong career-related programs
- No focused and effective summer session program or curriculum.
- Lack of effective communication skills with students, as many of them come from telugu medium and rural areas with less exposure to English

**Opportunities:**

- Using student assessment results to improve program quality. Expand student activities. Increase tutoring for student success.
- Adding new vigorous academic and workforce programs. Increase career services for students. Add on courses to strengthen the student employability.



- Research establishment and getting funds to strengthen the department. Involving more number of students in basic research and encouraging them towards summer research fellowships
- Effective use of web technology for student and teacher progression
- Reunions as opportunities to reconnect with alumni and strengthen the department.

**Challenges:**

- Drift of intelligent students to other areas at intermediate level is leading to the entry of noncreamy students into degree programmes.
- Retirements and need for succession planning.
- Low sense of participation of students in various activities
- Getting funds
- Attracting creamy students towards basic science and communication problems.

**39. Future plans of the department.**

- Establishment of a Research Center
- Introduction of more self-employable add on courses
- Strengthening of the department with equipment and literature by getting research projects.
- Involving more number of students in basic research so as to achieve summer research projects like Rajiv Gandhi summer research fellowship.
- Proposal to start M.Sc., Botany.