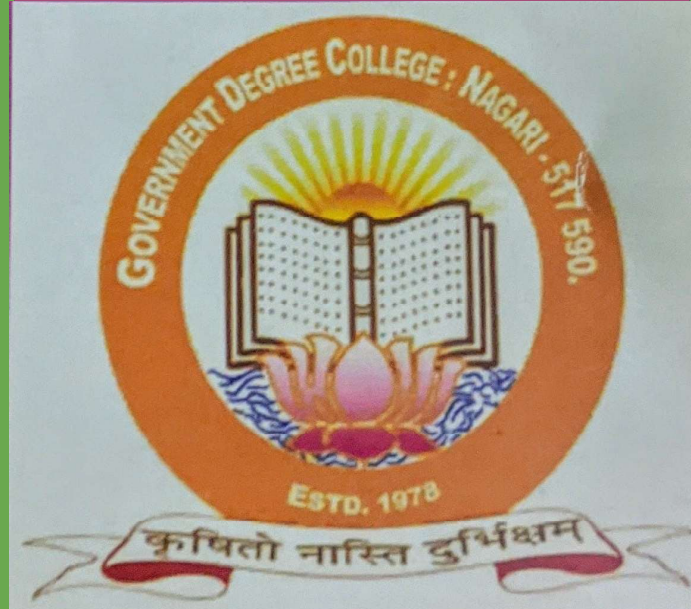


DEPARTMENT OF BOTANY



Vruksho Rakshathi Rakshithaha

Botany is the study of plants. Since the numerous species in the plant kingdom have characteristics that make them distinct from any other form of life, mankind has found plants to be particularly interesting subjects for the study of evolution and physiology.

For example, while most organisms are dependant on other organisms for their food, plants can capture light-energy and convert it into chemical energy. The entire world depends on this chemical energy, directly or indirectly, for its sustenance. Plants also have a variety of unique reproductive and pollen & seed dispersal mechanisms that allow them to quickly adapt to, occupy, and invade far-flung areas, despite their general immobility.

Because of such diverse characteristics, the study of plants is an extremely interesting subject. Accordingly, the Department of Botany aims to make the learning process very engaging and exciting for the students. The department complies with the syllabus framed by Sri Venkateswara University authorities.

Department of Botany

The government degree college nagari chittoor dist was established in the year 1978-79. The built up area of the department is 2000 sqft. Sri. A Subbaiah was the head of the department at the time of inception.

VISION

- To impart quality based science education and maintain academic standards to achieve global competence.
- Promotion of scientific culture, inculcation of scientific temper, scientific spirit, scientific thinking, scientific approach and exploration of knowledge in modern taxonomy.
- To foster creativity and innovation that leads to the prosperity through social responsibility.

MISSION

- To provide conceptual knowledge of subject with application and its day to day relevance.
- Emerging the understanding of the subject through multimedia ICT, OHP, LCD and Bio visual charts.
- To motivate and inspire the students into higher studies.

Curricular Aspects

In this course, the students will be taught the basics of plant biology. The course will begin with Microbial diversity, Evolution, Cryptogams and Plant anatomy. In the next year the students will be taught Plant taxonomy, Embryology, Plant physiology and metabolism. In the final year the student study Cell Biology, Genetics, Plant Breeding, Plant Ecology, Phytogeography, Nursery, Gardening, Floriculture, Plant diversity and Human welfare, Ethnobotany, Medicinal Botany, Pharmacognosy and Phytochemistry. This course will prepare them for further study in the fields of botany.

On successful completion of this course, the student will be able to:

- Explain the process of evolution, microbial diversity, different microorganisms.
- Explain the life cycles of Algae, Fungi, Bryophytes, Pteridophytes and Gymnosperms.
- Discuss tissues and tissue systems, Embryology, taxonomical aspects of different families, plant physiology and metabolism.
- Explain Cell biology, principles of genetics, plant breeding, ecology and biodiversity.
- Explain Horticulture, Floriculture Landscaping Techniques and Medicinal uses of plants.

Faculty



Name: Dr. A Radhaiah

Designation: Lecturer & HoD

Educational

Qualifications: M.Sc, M.Phil, PhD

Date of Birth: 01/01/1961

Date of Entry

Into the Degree

College Service: 27/10/1998

Teaching Experience in Degree College: 21 Years

No.of UGC OC/RCs Completed: OC: 1
RC: 3

No of publications/books

Publications: 15

Books: 1

No of Conferences/Seminars

participated/presented: 33

No of Research Projects completed: 1(Minor)

Position of Responsibilities: Academic Coordinator
Anti-Ragging Coordinator

Member of any organization: i) NESAI New Delhi
life membership
ii) BOS Member
S.V.University

Faculty

Name: Smt. S Padmavathi

Designation: Lecturer

Educational

Qualifications: M.Sc, SLET

Date of Birth: 20/10/1973

Date of Entry

Into the Degree

College Service: 31/05/2013



Teaching Experience in Degree College: 6 Years

No.of UGC OC/RCs Completed: OC: 1

RC: 1

No of publications/books

Publications: 2

Chapters in Books: 3

No of Conferences/Seminars

participated/presented: i) Seminars: 14

ii) Conferences: 3

iii) Workshops: 5

Position of Responsibilities: Eco-club Coordinator

Awards/Recognitions received: Best Women Teacher
award(dist level) given by
Vidya Parirakshana Samithi
(2019)

Teaching, Learning and Evaluation

Teaching:

Lecture, discussion and various other methods form the backbone of the entire teaching process.

This is further supplemented by various co-curricular and extracurricular activities such as student seminars, guest lectures, quiz competitions, field visits, group discussions etc. Teaching is aided by various charts, Overhead projector(OHP) sheets, PPT presentations and models in order to make the students grasp the subject easily. The internet is used to maximum possible extent to aid the teaching process.

At the very beginning of each academic year, the annual academic plans are prepared by the teaching staff. The syllabus is covered as per the plan. Teaching diary and teaching notes are maintained by the faculty. Further, Study material is distributed to the students. Firm adherence to the academic plan is ensured and the progress is reviewed periodically.

The department conducts bridge classes to students who do not study Botany as a subject in their Intermediate course. Slow learners in each class are identified and given remedial coaching. Teacher and Curriculum feedback are taken from time to time and appropriate changes are made as per the students requirement.

Learning:

The students are given a list of reference books available in the college library that they can refer in order to enhance their understanding of various topics. The students are also encouraged to read the text books from the college library as well as the departmental library. They are encouraged to discuss the difficult topics with the staff members. The students are assigned study projects which they complete under the guidance of the faculty. Apart from clearing the doubts raised by the students in the class, a doubt clarification session is arranged after teaching hours. The slow learners are identified and they are encouraged to write assignments on the topics useful for the university examinations.

Learning resources:

The department has a well maintained laboratory, furnished with all the equipment necessary for practicals. The department has got the regular equipment such as Compound Microscopes, Dissection Microscopes, Bio-Visual Charts, Permanent slides, Museum Specimens, etc. Apart from this, the department has also procured state of the art equipment such as Binocular Microscope, Projection Microscope, Hot Air Oven, Autoclave, Inoculation Chamber, Centrifuge, Ph meter, etc. The department has its own library. The department also has its own OHP and an LCD Projector. A computer with internet connection and a printer is also available with our department. Digital and Virtual classrooms are also utilised for teaching purposes. Lesson telecasts in Mana TV programs are used by the students.

Evaluation:

The evaluation and assessment is done through mid-Semester examinations, practical and End-semester examinations. Apart from these, slip tests, assignments are held immediately after the completion of a topic. This helps the students to get rid of their examination fear.

The spectacular pass percentages achieved by the department during the past five years in the university examinations are given below:

S.No	Academic Year	2014-15	2015-16	2016-17	2017-18	2018-19
1.	No. of Students	11	16	18	09	33
2.	No. of Students passed	10	15	18	09	33
3.	Pass percentage	91%	94%	100%	100%	100%

The students have been performing consistently well over the past five years.

Student Activities

Study Projects:

All the students are assigned study projects every year. The projects are based on a topic that has not been taught in the class, but related to the subject. The students are guided by the faculty and are encouraged to refer books in the library, browse the internet and consult anyone who they feel can enlighten them about this topic. This helps the students in gaining a deeper understanding of the subject. Also, this activity gives them experience in the research field which helps them in their future endeavors. Some of the study projects submitted by the students are given below:

- Medicinal uses of plants that are available in our locality.
- Plant biodiversity in our college campus.
- A study project on mineral deficiency in plants.
- A study project on conservation of biodiversity.
- Study of commercial crops in our locality.
- Landscaping of our college campus.
- A study project on ecosystem of our locality.
- Ornamental plants and flowers.
- Study of pollen grains of various plants growing in our college campus.

Study of commercial crops in our locality



Students are interacting with sugarcane farmer Sri.T.Ramaiah at T.R.Kandriga, Nagari Mandal Chittoor Dist.

Training of Landscape Design



Trainers are interacting with students explaining design of garden and cutting of plants.

Student Seminars



QUIZ

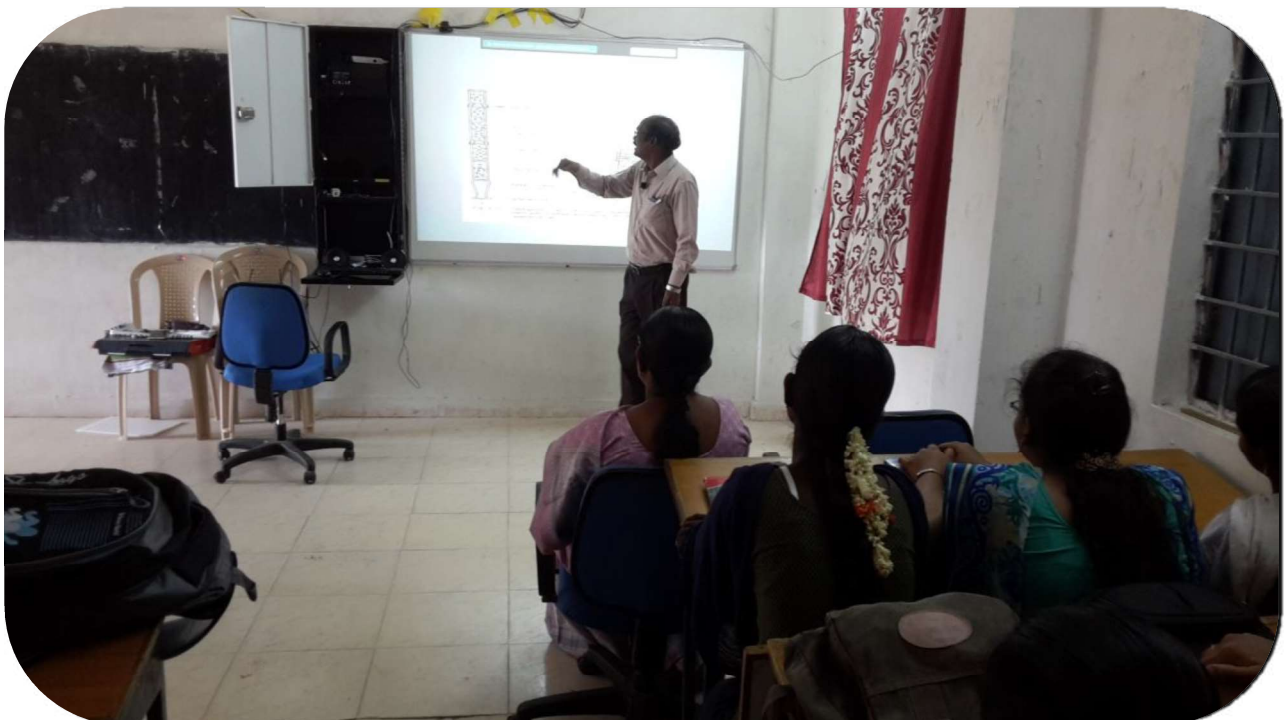


Group Discussion





Bridge Course



Digital Classrooms

Laboratory



Guest Lectures



Asst. Prof. Govinda Rajulu, Govt. Degree College, Puttur
Lecture on “Uses of plants in daily life”



Asst. Prof. D. Saradha, Govt. Degree College(M), Sri Kalahasti
Lecture on “rDNA Technology”

Guest Lectures



Dr. Amudavalli, Govt. Ayurvedic Doctor
Lecture on "Plants used in Ayurveda"



Asst. Prof. Indira Priyadarshini, Govt. Degree College,
Sri Kalahasti
Lecture on Biodiversity

Healthy Practices

Proficiency Prizes:

It is a common practice in our college to reward the meritorious students every year. The top scorers in University Examination are awarded Certificates and Cash Prizes.



Healthy Practices



A small donation from the department to S.N.Siva(II B.Zc) who underwent open heart surgery on December 2018.

Healthy Practices

Flower Bouquets making:



Healthy Practices

Competitions:



Painting Competition



Elocution Competition

Healthy Practices

Garden Development in College



Healthy Practices

Garden Development in College



Healthy Practices Field Visit



Healthy Practices

Field Visit



Field visit to Seshachalam Hills



Field Visit to Timber Depot, Kothapeta



Every creature plays a part in the ecosystem, Preserve Biodiversity.