



**GOVERNMENT DEGREE COLLEGE, RAYACHOTY**

**(Affiliated to Yogi Vemana University)**

**Chittor Road, Rayachoty, KADAPA (Dist.)**

**ACCREDITED BY NAAC WITH "C" GRADE**



**DEPARTMENT OF BOTANY**

**FIELD TRIPS**

**2018-2019.**



GDC. Rayachoti Department of Botany, organized a program called Field Trip which took students to Tirupati and Talakona Botanical Garden and Zoological Park as well as Science Exhibition.

Student are participation:30

Teaching staff participation:08

All Department staff members are participated in this field trip.



**Faculty members and students visited the preservation Bio Lab and demonstration to see new species growing and extincted sps and animals are observed there.**



**Both students and Botany lecturers joined together near Talakona waterfalls, where the vintage Fern plants were observed and these plants are ornametal, and medicinal plants but also rare plant sps are shown to the students.**

**All the science departments all together this program made successfully.**

**THANK YOU.**



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**DEPARTMENT OF BOTANY**

**FIELD TRIPS**

**2019-2020 TO 2020-2021.**

**PANDAMIC YEAR - NO FIELDTRIP**



**FIELD TRIP - 2021-2022**

**FIELD TRIP TO PLANT NURSERY, RAYACHOTY**



2/24/22  
10:50 AM

GDC.Rayachoty,Dept.of Botany conducted a Departmental Field Trip from Rayachoty To Narayana Reddy gari palli.



Total number of students are participated=15

Teaching staff

Participated:-

01.Non –

Teaching staff

Participated:-

01.The

Department of Botany

organized one day botanical

field trip to



plantnursery at various localities of Rayachoty on the date of 02/24/2022 .we started from GDC Rayachoty to Narayana Reddy Gari Palli, Approximately 08 km to plant nursery.

The picture of staff and students Govt. Degree College Rayachoty ,at the place of Bismillah plant nursery. In this nursery we have observed the ornamental plants, xerophytes species and also some of the Bonsai species



## Herbal Plan

### Aloe Vera

Heals burns and wounds, Treats skin issues (acne, psoriasis). Aids digestion.

### How Plants Help Us

- Oxygen production
- Shade and cooling
- Food and medicine
- Preventing soil erosion





**Tulsi (Holy Basil)** -Boosts immunity  
Reduces stress and anxiety,  
Controls respiratory infections,  
**Mint (Mentha)** Aids digestion

Relieves headaches and nausea

Acts as a cooling agent

**Lemongrass:** Reduces anxiety, Helps digestion.. Acts as mosquito repellent.  
LIRIOPE plant sps are observed, its evergreen ground cover is fast growing and does well,

under trees and on slope too. The arching green foliage is accented by small spikes

of purple flowers which appear in later.



### Why Students Should Learn About Plant Nurseries

- Plants improve **air quality** and reduce pollution.
- Many plants have **medicinal value** (natural remedies).
- Gardening builds **patience, responsibility, and care**.
- Encourages **environmental awareness** and **climate change action**.
- Promotes **healthy eating** through growing fruits and herbs.
- Supports **biodiversity** and protects local species.

#### Extra Tips:

- Partner with **local nurseries** to donate plants or conduct workshops.
- Distribute **small plant saplings** (like Tulsi or Neem) to students.
- Start a **mini medicinal garden** on school premises.

**THANK YOU.**



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**DEPARTMENT OF BOTANY**

**FIELD TRIP-SAMBEPALLI**

**2022-2023.**



GDC.RAYACHOTY,DEPARTMENT OF BOTANY STUDENTS WERE ATTENDED TO SAMBEPALLI FOR THE PURPOSE OF AWARENESS ON SEED TCOLLECTING,SEED TESTING,CONTROLLING OF SEED PEST AND HOW TO SEED SOWING INTO THE SOIL BY LATEST TECHNOLOGY.

No.of students are participated:20.

**Seed Testing Awareness:**



- **Purpose:** Ensures seeds are viable, pure, and free from diseases before sowing.
- **Modern Techniques:**
  - **Genetic Testing (DNA fingerprinting):** Confirms variety purity.
  - **X-ray Analysis:** Detects internal defects.
  - **Moisture Testing:** Ensures optimal storage conditions.
  - **Germination Testing:** Checks the percentage of seeds that will sprout.
  - **Controlling of seed diseases.**



**GDC RAYACHOTY, DEPARTMENT OF BOTANY, II BZC Students and Department Lecturer, and also Herbarium keeper visit to field trip to Sambepalli by the organization of ICICI Foundations. So in this field trip we know how to cultivate these seeds and new technical methods are used in agriculture field and shown demonstrably and hands on practically. Students are observing and listening about the precautions of Groundnut seeds for growing in a proper way.**



**Seed Collecting (Modern Practices) Key Practices:**

**Harvesting at Physiological Maturity:** Ensures high vigor and longevity.

**Mechanical Seed Harvesters:** Increase efficiency and reduce damage.

**Proper Cleaning & Grading:** Removes chaff, immature, and broken seeds.



**Storage Innovations:** Hermetic bags, vacuum sealing to extend shelf life.

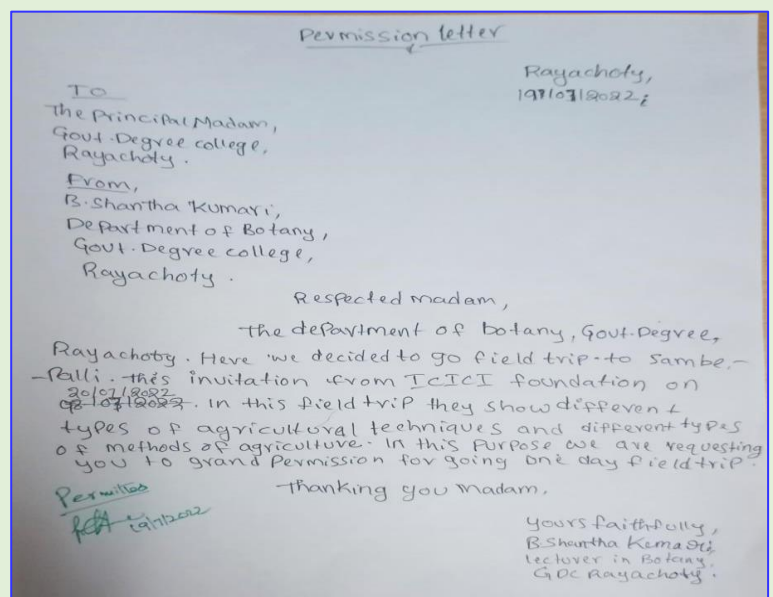
#### 🚜 4. Seed Sowing with Latest Technology

- **Modern Sowing Methods:**

- **Precision Seed Drills:** Places seeds at correct depth and spacing (GPS enabled).
- **Seed Coating & Pelleting:** Improves sowing accuracy and early growth.
- **Drone Sowing:** For large-scale and difficult terrains.
- **Direct Seeding Machines:** For rice and other crops, reducing water and labor use.
- **IoT & AI-based Sowing:** Optimize sowing time based on soil and weather data.

Students are also satisfied and gain more knowledge practically in this field trip. This field trip is organized by Dept. of Botany through the ICICI Foundations Sambepalli, Rayachoti.

**THANK YOU.**





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**DEPARTMENT OF BOTANY**

**FIELD TRIP-PRABHARA HYBRID SEEDS**

**KOTHAPET, RAYACHOTY.**

**2022-2023.**

**02.09.2022**



GDC.RAYACHOTY, IInd BZC students were attended to another field trip to PRABHARA HYBRID SEEDS, PVT LTD, KOTHAPET, RAYACHOTY. In this field trip, the tomato crop is cultivated without fertilizers the crop is grown in the shaded area and all the students are absorbed this kind of crops.



In this field trip, the tomato crop is cultivated without fertilizers the crop is grown in the shaded area and all the students are absorbed this kind of crops.



In the above photo how the seed is cleaned and how the quality seeds are separated by this device. The students are showed practical how to protect the seed from any pests as well as the seed, how the seed is packed and sealed, how its transported depends on the how long it survive in the immunity, these are all this practically explained by the prabhakar hybrid seeds manager and staff.





## Seed Packing:

- Proper Packaging Prevents Contamination:** Use clean, dry, and pest-free materials to avoid seed spoilage and contamination.
- Labeling is Mandatory:** Every seed packet should clearly mention crop name, variety, lot number, germination percentage, and date of packing.
- Moisture Control is Crucial:** Seeds must be packed at safe moisture levels (generally below 12%) to prevent fungal growth and loss of viability.
- Use Certified Bags:** For commercial seeds, use bags approved by agricultural departments or seed certification agencies.
- Size Matters:** Select appropriate packing sizes based on market needs (e.g., 1 kg, 5 kg, 10 kg, etc.).

## Seed Weight:

- 1000 Seed Weight as a Standard Measure:**



Known as the "Thousand Grain Weight (TGW)," it's an important indicator for seed size and quality.

**7. Seed Weight Affects Sowing Rate:** Heavier seeds may require adjustment in seed rate for proper field coverage.

**8. Uniform Seed Weight Improves Plant**

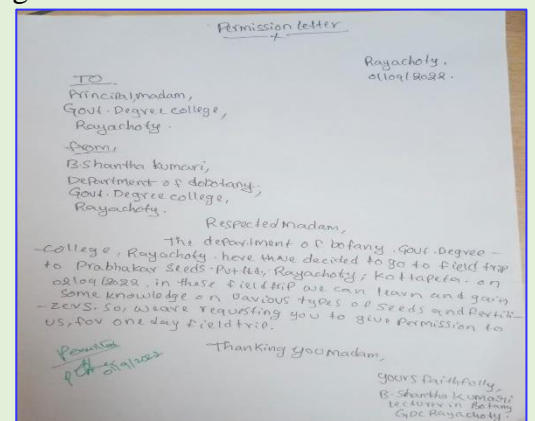
**Stand:** Consistent seed size ensures uniform germination and growth in the field.

- Impacts on Mechanical Sowing:** Seed drills and planters work best with seeds of uniform size and weight. **Seed Quality Testing:**

- Germination Test is Fundamental:** Check what percentage of seeds sprout under standard conditions — it must meet minimum certification standards.

- Purity Test Ensures True Seed:** It determines the percentage of pure seeds and separates out weed seeds and inert matter.

- Moisture Content Test Protects Viability:** High moisture shortens shelf life; regular testing prevents storage losses. No. of students are participated: 20.





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**DEPARTMENT OF BOTANY**

**FIELD TRIP-ON MUSHROOM CULTIVATION**

**KRISHIVIGNAN KENDRAM,UTKUR,KADAPA**

**CERTIFICATE COURSE**

**02.02.2023-03.02.2023**

**2022-2023.**



GDC RAYACHOT ,DEPARTMENT OF BOTANY ,III BZC students are visited to KRUSHI VIGNAN KENDRAM UTTUKURU,KADAPA for the purpose of field trip is mushroom cultivation. Smt. Shilpa kala madam, Explained about the different types of mushroom cultivations i.e. paddy straw mushroom, milky mushroom and button mushroom,oyster mushroom.

No.of students are participated:15.



Smt. Shilpa kala madam, Explained about the different types of mushroom cultivations i.e. paddy straw mushroom, milky mushroom and button mushroom, oyster mushroom.



improving soil fertility.

### Economic Opportunity:

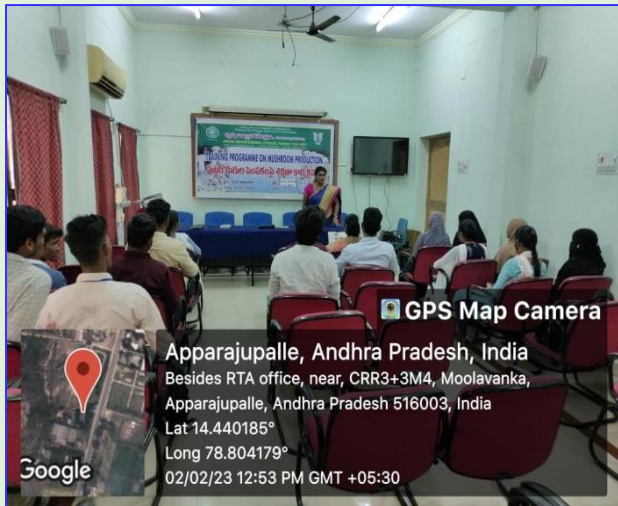
- Small-scale mushroom farming can generate income with relatively low investment.
- High demand in domestic and international markets for both edible and medicinal mushroom.

Students are grass cutting for the preparation of paddy straw Mushroom by practically, in the presence of smt. T. Shilpa kala madam.

### Awareness About Mushroom Cultivation

- **Nutritional Value:** Mushrooms are rich in protein, fiber, vitamins (like B and D), and minerals. They're also low in fat and calories.
- **Medicinal Importance:** Certain mushrooms (e.g., Reishi, Shiitake, Lion's Mane) are used in traditional and modern medicine for boosting immunity, improving brain function, and reducing inflammation.
- **Environmental Benefits:**
  - Mushrooms can grow on agricultural waste, turning waste into a valuable food source.
  - They contribute to sustainable farming by decomposing organic matter and





### Requirements:

- **Space:** Small rooms, sheds, or even vertical shelves.
- **Climate Control:** Some mushrooms need specific humidity (70-90%) and temperature (20-30°C).
- **Hygiene:** To prevent contamination from molds and pests.

### Practical Uses of Mushrooms

- **Culinary:**
  - Widely used in soups, stir-fries, pizzas, and gourmet dishes.
  - Vegan protein substitute in many diets.



- **Medicinal Products:**
  - Supplements, teas, and capsules from medicinal species.
- **Agriculture:**
  - Spent mushroom substrate (SMS) is excellent compost/fertilizer.
- **Industrial:**

Some mushrooms are used in bioremediation to clean polluted soil and water.

Mushroom-based materials are being developed as biodegradable packaging and leather substitutes.

### Economic Empowerment:

Especially empowering for rural women and unemployed youth when set up as a cottage industry.

- **Nutritional Value:** Mushrooms are rich in protein, fiber, vitamins (like B and D), and minerals. They're also low in fat and calories.



- **Medicinal Importance:** Certain mushrooms (e.g., Reishi, Shiitake, Lion’s Mane) are used in traditional and modern medicine for boosting immunity, improving brain function, and reducing inflammation.



- **Medicinal Importance:** Certain mushrooms (e.g., Reishi, Shiitake, Lion’s Mane) are used in traditional and modern medicine for boosting immunity, improving brain function, and reducing inflammation.
- **Environmental Benefits:**
  - Mushrooms can grow on agricultural waste, turning waste into a valuable food source.
  - They contribute to sustainable farming by decomposing organic matter and improving soil fertility.
- **Economic Opportunity:**





- Small-scale mushroom farming can generate income with relatively low investment.
- High demand in domestic and international markets for both edible and medicinal mushrooms.

## . Practical Aspects of Mushroom Cultivation

### Common Types Grown:

- Button Mushroom (*Agaricus bisporus*)
- Oyster Mushroom (*Pleurotus spp.*)
- Shiitake Mushroom (*Lentinula*



- edodes)
- Milky Mushroom (*Calocybe indica*)

### Basic Steps:

1. Selection of Mushroom Species (depends on local climate, market demand)
2. Substrate Preparation:

- Common

substrates: paddy straw, wheat straw, sawdust, coffee grounds.

- Substrate is usually pasteurized or sterilized to kill unwanted microbes.



**GOVERNMENT DEGREE COLLEGE**  
**RAYACHOTI, ANNAMAYYA DISTRICT, A.P. 516269**  
 (Accredited with C grade by NAAC)

Date: 05.01.2023

**Circular**

To:  
 All students and Faculty Members,  
 Government Degree College, Rayachoti

Subject: Certificate Course on Training Programme on Mushroom Cultivation: Training Programme on Mushroom Cultivation, Krishi Vigyan Kendra, Utukur, Kadapa

Dear Sir/Madam,

We are pleased to announce a Certificate course on Training Programme on Mushroom Cultivation, Krishi Vigyan Kendra, Utukur, Kadapa. The course aims to provide an in-depth understanding of mushroom cultivation, including substrate preparation, inoculation, and harvesting. The course is designed to provide an in-depth understanding of mushroom cultivation, including substrate preparation, inoculation, and harvesting. The course aims to provide an in-depth understanding of mushroom cultivation, including substrate preparation, inoculation, and harvesting.

**Course Details:**

Course Title: Mushroom cultivation  
 Duration: 02-01-2023 To 04-01-2023 (20 Hours)  
 Venue: Training Programme on Mushroom Cultivation, Krishi Vigyan Kendra, Utukur, Kadapa.

Course coordinators: Smt. Bhatu, Shantha kumari, Lecturer in Botany.  
 Registration Deadline: 30-12-2023  
 Registration Fee: Rs.500/- (Per Head)  
 Interested participants are requested to register for the course by filling out the registration form available in the department of Botany.

*[Signature]*  
 Scanned with DRKH Scanner

**Admission letter**

To:  
 The Principal/Dean,  
 Govt Degree college,  
 Rayachoty

From:  
 Dr. Shantha Kumari,  
 Department of Botany,  
 Govt Degree college,  
 Rayachoty.

Respected Madam,  
 The department of Botany Govt Degree college, Rayachoty we are planning to go to field trip to Kadapa. For the purpose of learning how to cultivate mushrooms and to see the process of mushroom cultivation in Krishi Vigyan Kendra, Utukur, Kadapa and process of making different kinds of healthy biscuits. So, we are requesting you to give permission of two days from 2-2-23 to 3-2-23 two days permission.

Thanking you madam,  
 Yours faithfully,  
 Dr. Shantha Kumari,  
 Lecturer in Botany,  
 G.D.C. Rayachoty.

**THANK YOU.**



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**DEPARTMENT OF BOTANY**

**FIELD TRIP-TALAKONA&TIRUPATHI**

**SCIENCE AND TECHNOLOGY**

**2022-2023**



**GDC.RAYACHOTY,DEPT.OF BOTANY,COLLEGE INSTITUTE WAS ARRANGED FIELD TRIP TO TALAKONA&TIRUPATHI SCIENCE AND TECHNOLOGY ALONG WITH STUDENTS ANS STAFF MEMBERS AND ALSO NON-TEACHING STAFF.**

**NO.OF STUDENTS ARE PARTICIPATED:35.**

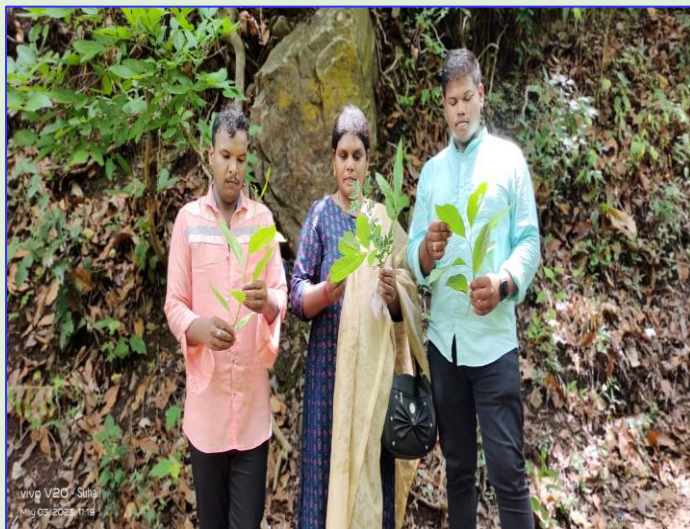


We are excited to announce an educational field trip to **Talakona Forest**, one of the most beautiful and ecologically rich regions in Andhra Pradesh! This trip is not just about exploring nature — it's also an opportunity to understand the close connection between **science, technology, and the environment**.



### Objectives of the Trip:

- **Environmental Awareness:** Learn about the unique biodiversity of Talakona, including rare plants, animals, and the importance of preserving forests.
- **Scientific Exploration:** Study the ecosystem, water cycle (Talakona waterfalls), and forest conservation methods.
- **Technology & Sustainability:** Discover how modern technologies like **GIS mapping, drone monitoring, and eco-friendly energy solutions** are helping in forest conservation.
- **Hands-On Learning:** Participate in activities such as nature walks, eco-surveys, and interactive sessions with forest officials and environmental scientists.





- • **Biodiversity Hotspot:** Talakona Forest is home to a rich variety of flora and fauna, including several rare and endemic species found only in this region.



- • **Medicinal Plants:** The forest hosts numerous medicinal plants used in traditional healing systems like Ayurveda, benefiting both local communities and scientific research.
- • **Wildlife Habitat:** It provides a safe habitat for endangered species such as the Indian giant squirrel, golden gecko, and slender loris.
- • **Tiger Reserve Zone:** Talakona is part of the buffer zone of the Sri Venkateswara National Park, which is known to shelter tigers and leopards.
- • **Water Source:** The dense vegetation helps maintain the local water table and supports the famous Talakona waterfalls, an important freshwater source.
- • **Pollination Support:** Species like bees, butterflies, and birds in Talakona contribute to pollination,

supporting agriculture and forest regeneration.

- • **Climate Regulation:** The forest acts as a carbon sink, absorbing carbon dioxide and helping in climate regulation at the local and regional level.
- • **Soil Conservation:** Tree roots and ground cover prevent soil



Tirupati, Andhra Pradesh, India  
 J9F8+P4F, SH 61, Thatithopu, Tirupati, Andhra Pradesh 517504, India  
 Lat 13.624638°  
 Long 79.365178°  
 03/05/23 02:38 PM GMT +05:30

erosion, maintaining the fertility and stability of the land.

- • **Cultural and Spiritual Value:** Many species in Talakona are considered sacred by local communities, adding cultural and spiritual significance to biodiversity.
- • **Scientific Research:** The unique species diversity offers excellent opportunities for scientific studies in ecology, botany, zoology, and environmental science.



2PWP+JV5, Ramapuram, Rayachoty, Andhra Pradesh 516269, India

Rayachoty

Andhra Pradesh

India

2023-05-03(Wed) 07:44(AM)

**THANK YOU.**



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**DEPARTMENT OF BOTANY**

**FIELD TRIP-PRAKRUTHIVANAM**

**KOTHAVARIPALLI.MADANAPALLI(chittord.t)**

**NATUROPATHI DAY**

**2023-2024**



GDC Rayachoty, Department of Botany, IIBZC Students are visited field trip to prakruthi vanam, madanapalli, chittoor (dist) on the occasion of NATUROPATHI DAY.



**No.of students are participated:20.**



• **Naturopathy is a holistic system that focuses on natural healing and treating the root cause of disease, not just symptoms.**

- **It emphasizes prevention** through healthy lifestyle choices, diet, and stress management.
- **Naturopathic treatments are non-invasive**, using natural therapies like herbal medicine, yoga, hydrotherapy, and massage.
- **Diet and nutrition** play a central role in naturopathy, supporting the body's healing process.
- **Detoxification** is often recommended to cleanse the body of toxins.



- **Hydrotherapy (water therapy)** is widely used in naturopathy to stimulate circulation and boost immunity. • **Yoga and meditation** are key practices in naturopathy to balance the mind and body.
- **It strengthens the body's self-healing ability** rather than relying on external medications.



- **Minimal or no side effects** since it avoids synthetic drugs and invasive procedures.
- **It can be used alongside conventional medicine** to improve overall wellness.
- **Personalized treatment plans** are created based on the individual's body constitution and lifestyle.



- **Common conditions treated** include digestive issues, stress, obesity, diabetes, skin problems, and arthritis.
- **Naturopathy promotes mental well-being**, considering emotional and psychological health as vital.
- **It is cost-effective**, making healthcare affordable for many people.

- **Globally recognized** and practiced, with growing acceptance even in modern medical communities.





**Naturopathy is a natural system of medicine** that promotes self-healing through natural therapies.

- **It focuses on treating the root cause** of illness rather than just addressing symptoms.

- **Prevention is a key principle** of naturopathy, encouraging healthy habits to avoid diseases.

- **Diet and nutrition** are considered vital tools for maintaining health and curing ailments.

- **Herbal medicine** is commonly used in naturopathy to support the body's healing process.

- **Yoga and meditation** are integrated to balance physical, mental, and emotional health.

- **Hydrotherapy (water treatments)** is used to improve circulation and detoxify the body.

S.No.	Name of the student	Signature of the student
1.	G. Keerthana.	G. Keerthana.
2.	P. Khadar Bee.	P. Khadar Bee
3.	S. Shabeena.	S. Shabeena.
4.	C. Aswini	C. Aswini
5.	D. Veera Malleswari	D. Veera Malleswari
6.	J. Venkateswara.	J. Venkateswara
7.	K. Khadar Basha.	K. Khadar Basha
8.	S. Farooq.	S. Farooq.
9.	B. Vishnu Vardhan.	B. Vishnu Vardhan
10.	K. Manoj	K. Manoj
11.	L. Syam Chandu	L. Syam Chandu
12.	D. Durga Prasad.	D. Durga Prasad.
13.	V. Venu Gopal.	V. Venu Gopal
14.	S. Ali Ahmad.	S. Ali
15.	B. Siddeswara.	B. Siddeswara

Permission Letter 17.11.2023  
Rayachoti.

From  
III B.Z.C students,  
Department of Botany,  
GDC Rayachoti,  
Annamarah (D.T.)  
To  
The Principal madam Ganu,  
GDC Rayachoti,  
Annamarah (D.T.)

Respected madam,

Sub: Field-Trip to madanapalli (PRAKRUTHI VANAM)  
one day-Permission - Requesting - Regarding -

As we are III B.Z.C students (Final year), Department of Botany, GDC Rayachoti, Annamarah (D.T.). we get plan to botanical field trip to MADANAPALLI (PRAKRUTHI VANAM) one day programme on ie 18.11.2023 (Saturday).

for the purpose of awareness on Herbal plants and Extract products and practically we will know, that why we have planned. so, we Request you madam, kindly Give permission to us for one-day - programme on ie on 18.11.2023 (Saturday field trip). kindly accept to my permission. Today also Naturopathy Day (18.11.2023)

Thanking you madam,  
Your's faithfully,

- **Massage therapy** helps in relaxation, pain relief, and improving blood flow.

- **Detoxification** is emphasized to remove harmful toxins from the body.

**THANK YOU.**



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**DEPARTMENT OF BOTANY**  
**FIELD TRIP TO WORKSHOP - 2024-2025**  
**ON**  
**HERBARIUM TECHNIQUES METHODOLOGY**

**27.11.2024**



Govt. Degree college, Rayachoty students attended to "FIELD TRIP TO WORKSHOP ON HERBARIUM TECHNIQUES AND METHODOLOGY" at GOVT. COLLEGE FOR MEN(A) KADAPA.

In this program, the chief guest is Prof. Dr. M. Madhusudan Reddy Garu, Taxonomist, who attended to this program and also explained about the Herbarium Techniques through the PPT.

No. of students who participated: 50.

No. of teaching staff who participated: 10.

GDC, RAYACHOTY Principal madam has supported and permitted to attend the program of Workshop on Herbarium Techniques of Methodology.



conservation. Proper techniques are essential for maintaining the integrity of these specimens over time. Below is an overview of key methodologies in herbarium preparation and management.

### **Collection of Plant Specimens:**

**Selection:** Choose healthy, representative specimens, including leaves, flowers, fruits, and roots.

**Tools:** Use a plant press, pruning shears, gloves, field notebook, GPS, and plastic bags.

**Field Data Recording:** Document details such as location, habitat, date, collector's name, plant height, flower color, and associated species.



### **Pressing and Drying:**

**Pressing:** Arrange plant parts between newspaper sheets or blotting paper within a plant press.

**Drying:** Use a well-ventilated area or an artificial dryer at 40–60°C to remove moisture while retaining color and structure.

**Prevention of Fungal Growth:** Change papers regularly to avoid mold..



## Mounting the Specimens

**Mounting Sheets:** Use acid-free paper (typically 11.5 × 16.5 inches) for long-term preservation.

**Attachment:** Secure specimens with glue, adhesive strips, or thread to prevent damage.

**Labeling:** A printed label with essential data (scientific name, family, location, collector's details, and collection number) is affixed to the sheet.

## Identification and Classification:

**Taxonomic Identification:** Compare with botanical keys, literature, or expert consultation.

**Nomenclature:** Follow international naming conventions like the **International Code of Nomenclature for algae, fungi, and plants (ICN)**.

**Storage and Preservation Arrangement:** Organize specimens in herbarium cabinets according to taxonomy or geography



- **Protection:** Use insecticides (naphthalene, thymol) and periodic fumigation to prevent pest damage.
- **Climate Control:** Maintain low humidity (40–60%) and temperature (~15°C) to prevent degradation.



### Digitalization and Data Management:

- **Imaging:** High-resolution scanning or photography for virtual herbarium databases.
- **Databases:** Store specimen details in digital repositories such as **GBIF, JSTOR Plants, or institutional databases** for global access.
- **Barcoding:** Assign unique identifiers for tracking and research purposes.

### . Importance of Herbarium

- **Taxonomic Research:** Serves as a reference for species identification.
- **Biodiversity Conservation:** Helps monitor plant distribution and endangered species.
- **Education and Outreach:** Supports botanical studies and public awareness.

### Student Opinion on Herbarium Technique and Field Trips

Herbarium techniques and field trips play a crucial role in understanding plant diversity, conservation, and scientific documentation. From a student’s perspective, these activities provide both theoretical knowledge and hands-on experience that are essential for learning botany.

- **Herbarium Technique:** Creating a herbarium involves



collecting, **Phytochemical Studies:** Aids in medicinal plant research.

- pressing, drying, and preserving plant specimens. This technique teaches patience, attention to detail, and scientific documentation. It also helps students identify plants, understand their characteristics, and contribute to long-term botanical research. However, some students find the process time-consuming and repetitive. Still, it remains an effective way to study plant taxonomy and morphology.

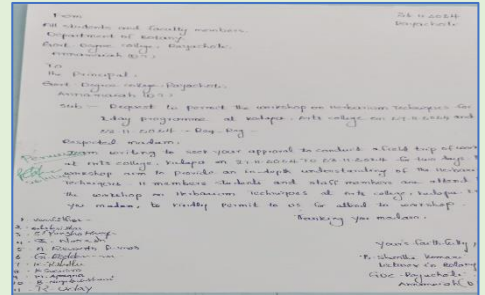




- Field trips make learning interactive and engaging. Observing plants in their natural habitat helps students appreciate biodiversity and ecosystems beyond textbooks. It also encourages curiosity and critical thinking. However, challenges such as weather conditions, long travel, and physical strain can sometimes make field trips exhausting. Despite this, most students agree that these trips are valuable and make learning more enjoyable.

techniques and field trips complement each other, providing a balanced learning experience. While herbarium work ensures scientific

- Overall, herbarium



precision, field trips offer real-world exposure, making botany an exciting subject.



**Kadapa, Andhra Pradesh, India**  
 1, Railway Colony, Kadapa, Andhra Pradesh 516247, India  
 Lat 14.452582° Long 78.830623°  
 27/11/24 01:33 PM GMT +05:30

**THANK YOU**