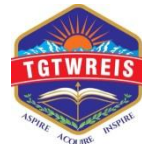




TGTWR DEGREE COLLEGE (GIRLS), DAMMAPETA,  
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## **ACADAMIC YEAR 2025-2026**

### **DEPARTMENT OF BOTANY**

### **BEST PRACTICE**

#### **BOTANICAL GARDEN MAKING**

**Location : Ankampalem**

**College : tgtwrdc (G) Dammapeta**

**Date : 04-11-2025**

#### **Introduction :**

The Department of Botany at TGTWRDC (G) Dhammapada College organized a Botanical Garden Making activity as part of experiential and environmental education. The program aimed to provide practical knowledge of plant diversity, conservation, and garden management to students.

#### **Objectives of the Program**

The main objectives of the botanical garden making activity were:

- To create awareness about plant diversity and conservation
- To provide hands-on training in planting and garden maintenance
- To help students identify medicinal, ornamental, and native plants
- To promote environmental responsibility among students

#### **Description of the Activity**

The activity was conducted within the college campus under the guidance of Botany faculty members. Students actively participated in land preparation, planting saplings, labeling plants, and arranging them systematically. Various types of plants such as medicinal plants, flowering plants, shrubs, and small trees were planted.

Faculty members explained the scientific names, families, and medicinal importance of different plants. Students also learned about soil preparation, irrigation methods, and sustainable gardening practice

## Student Participation

Students of Botany enthusiastically took part in the program. They worked in groups and showed keen interest in understanding plant morphology and uses. The activity encouraged teamwork, discipline, and practical learning.



## Outcomes of the Program

- A well-organized botanical garden was developed on the college campus
- Students gained practical knowledge of plant identification and cultivation
- Awareness about biodiversity conservation was enhanced
- The garden will serve as a learning resource for future students

## Conclusion

The Botanical Garden Making activity organized by the Department of Botany was highly successful and educational. It provided valuable practical exposure to students and contributed to creating a green and eco-friendly campus. Such activities play an important role in bridging theoretical knowledge with real-world applications.

# **CORIYANDER CULTIVETION**

**Location : Ankampalem**

**College : tgtwrdc (G) Dammapeta**

**Date : 03 -12-2025**

## **Introduction :**

The Department of Botany, TGTWRDC (G) Dammapeta, organized a Coriander Cultivation activity to provide practical agricultural knowledge to students. The program was conducted as part of hands-on learning to understand crop cultivation, growth stages, and economic importance of coriander.

## **Objectives of the Program**

The main objectives of the coriander cultivation program were:

- To give practical exposure to crop cultivation
- To understand the life cycle of coriander plant
- To create awareness about medicinal and nutritional value of coriander
- To promote interest in sustainable and organic farming practices

## **Description of the Activity**

The activity was carried out in the college campus under the supervision of Botany faculty members. Students prepared the soil by ploughing and leveling the land. Healthy coriander seeds were selected and sown evenly in the prepared field.

Faculty members explained the suitable soil type, irrigation methods, and climatic conditions required for coriander cultivation. Students were also taught about germination, plant care, weeding, and pest control methods.

## **Student Participation**

Botany students actively participated in all stages of cultivation. They showed great interest and enthusiasm in sowing seeds, watering plants, and observing growth. The activity helped students develop teamwork and practical skills.

## **Importance of Coriander**

Coriander is an important medicinal and culinary plant. It is widely used as a spice and leafy vegetable. It has digestive, antioxidant, and antimicrobial properties and plays a significant role in daily diet.



## Outcomes of the Program

- Students gained practical knowledge of coriander cultivation
- Awareness about medicinal and economic importance of coriander increased
- Students learned basic agricultural techniques
- The activity promoted eco-friendly and sustainable practices

## Conclusion

The Coriander Cultivation program organized by the Department of Botany at TGTWRDC (G) Dammapeta was successful and informative. It helped students connect theoretical knowledge with practical experience and encouraged interest in agriculture and plant sciences.

# **FENUGREEK CULTIVATION**

**Location : Ankampalem**

**College : tgtwrdc (G) Dammapeta**

**Date : 03 -12-2025**

## **Introduction**

The Department of Botany, TGTWRDC (G) Dammapeta, organized a Fenugreek Cultivation activity to provide practical knowledge to students about crop cultivation and its importance. The program was conducted as part of hands-on learning in plant sciences.

## **Objectives of the Program**

The objectives of the fenugreek cultivation activity were:

- To provide practical experience in crop cultivation
- To understand the growth and life cycle of fenugreek plant
- To create awareness about the medicinal and nutritional value of fenugreek
- To encourage sustainable and eco-friendly farming practices

## **Description of the Activity**

The activity was conducted on the college campus under the guidance of Botany faculty members. The land was prepared by loosening the soil and removing weeds. Good quality fenugreek seeds were selected and sown uniformly in the prepared plots.

Faculty members explained suitable soil conditions, irrigation requirements, and climatic factors needed for fenugreek growth. Students were also guided on watering, weeding, and plant protection methods.

## **Student Participation**

Botany students actively participated in all stages of the cultivation process. They showed enthusiasm in seed sowing, irrigation, and regular observation of plant growth. The activity helped students develop teamwork and practical agricultural skills.

## **Importance of Fenugreek**

Fenugreek is an important medicinal and culinary plant. It is used as a leafy vegetable and spice. Fenugreek helps in digestion, controls blood sugar levels, and has anti-inflammatory properties.



## Outcomes of the Program

- Students gained hands-on experience in fenugreek cultivation
- Knowledge of medicinal and economic importance of fenugreek increased
- Students learned basic agricultural and plant management techniques
- The activity promoted interest in organic and sustainable farming

## Conclusion

The Fenugreek Cultivation program organized by the Department of Botany at TGTWRDC (G) Dammapeta was successful and educational. It provided valuable practical exposure and helped students link theoretical concepts with real-life agricultural practices.

# **Amaranthus (Thotakura) cultivation**

**Location : Ankampalem**

**College : tgtwrdc (G) Dammapeta**

## **Introduction**

The Department of Botany, TGTWRDC (G) Dammapeta, organized an Amaranthus Cultivation activity to provide practical knowledge to students about vegetable crop cultivation. The program aimed to enhance hands-on learning and understanding of the nutritional importance of Amaranthus.

## **Objectives of the Program**

The objectives of the Amaranthus cultivation program were:

- To provide practical experience in vegetable cultivation
- To understand the growth and life cycle of Amaranthus
- To create awareness about the nutritional and medicinal value of Amaranthus
- To promote sustainable and eco-friendly agricultural practices

## **Description of the Activity**

The cultivation activity was conducted on the college campus under the guidance of Botany faculty members. The soil was prepared by ploughing and leveling the land. Healthy Amaranthus seeds were selected and sown evenly in prepared beds.

Faculty members explained suitable soil type, irrigation methods, and climatic conditions required for Amaranthus cultivation. Students were guided on regular watering, weeding, and protection from pests.

## **Student Participation**

Botany students actively participated in all stages of cultivation. They showed great interest in seed sowing, irrigation, and observation of plant growth. The activity helped develop teamwork, responsibility, and practical skills among students.

## **Importance of Amaranthus**

Amaranthus is a highly nutritious leafy vegetable rich in vitamins, minerals, and iron. It helps in improving immunity, digestion, and overall health. It is widely used in daily diets and has economic importance.



## Outcomes of the Program

- Students gained hands-on experience in Amaranthus cultivation
- Knowledge of nutritional and economic importance of Amaranthus increased
- Students learned basic agricultural techniques
- The activity encouraged sustainable farming practices

## Conclusion

The Amaranthus Cultivation program organized by the Department of Botany at TGTWRDC (G) Dammapeta was successful and informative. It helped students connect theoretical knowledge with practical application and promoted interest in plant sciences and agriculture.

# Spinach (Palakura) cultivation

**Location : Ankampalem**

**College : tgtwrdc (G) Dammapeta**

## **Introduction**

The Department of Botany, TGTWRDC (G) Dammapeta, organized a Palakura (Spinach) Cultivation activity to provide practical knowledge to students about leafy vegetable cultivation. The program was conducted to enhance hands-on learning and awareness of nutritional importance.

## **Objectives of the Program**

The main objectives of the Palakura cultivation activity were:

- To provide practical exposure to leafy vegetable cultivation
- To understand the growth and life cycle of Palakura
- To create awareness about nutritional and medicinal value of Palakura
- To encourage eco-friendly and sustainable farming practices

## **Description of the Activity**

The cultivation activity was carried out on the college campus under the supervision of Botany faculty members. The land was prepared by loosening the soil and removing weeds. Healthy Palakura seeds were selected and sown evenly in prepared beds.

Faculty members explained suitable soil type, irrigation schedule, and climatic conditions required for Palakura cultivation. Students were guided on regular watering, weeding, and plant care practices.

## **Student Participation**

Botany students actively participated in all stages of cultivation. They showed enthusiasm in seed sowing, watering, and observing plant growth. The activity helped students develop teamwork and practical agricultural skills.

## **Importance of Palakura**

Palakura is a nutritious leafy vegetable rich in iron, vitamins, and minerals. It helps in improving hemoglobin levels, digestion, and immunity. It is an important part of a balanced diet.



## Outcomes of the Program

- Students gained hands-on experience in Palakura cultivation
- Awareness about nutritional and economic importance of Palakura increased
- Students learned basic farming and plant management techniques
- The activity promoted sustainable agricultural practices

## Conclusion

The Palakura Cultivation program organized by the Department of Botany at TGTWRDC (G) Dammapeta was successful and educational. It provided valuable practical exposure and encouraged students to apply theoretical knowledge in real-life situations.

# Mint cultivation

**Location : Ankampalem**

**College : tgtwrdc (G) Dammapeta**

## **Introduction**

The Department of Botany, TGTWRDC (G) Dammapeta, organized a Mint Cultivation activity to provide practical knowledge to students about the cultivation of medicinal and aromatic plants. The program aimed to enhance hands-on learning and awareness of the economic and medicinal importance of mint.

## **Objectives of the Program**

The objectives of the mint cultivation activity were:

- To provide practical experience in mint cultivation
- To understand the growth and propagation of mint plants
- To create awareness about the medicinal and aromatic value of mint
- To encourage sustainable and eco-friendly farming practices

## **Description of the Activity**

The mint cultivation activity was conducted on the college campus under the guidance of Botany faculty members. The soil was well prepared by loosening and leveling. Healthy mint cuttings were selected and planted in rows with proper spacing.

Faculty members explained suitable soil type, irrigation methods, and climatic conditions required for mint cultivation. Students were also guided on regular watering, weeding, and organic pest control methods.

## **Student Participation**

Botany students actively participated in planting mint cuttings, watering, and observing plant growth. The activity promoted teamwork, responsibility, and practical learning among students.

## **Importance of Mint**

Mint is an important medicinal and aromatic plant. It is widely used in food items, beverages, and medicines. Mint helps in digestion, relieves cold and cough, and has cooling and antibacterial properties.



## Outcomes of the Program

- Students gained hands-on experience in mint cultivation
- Knowledge of medicinal and economic importance of mint increased
- Students learned basic plant propagation and maintenance techniques
- The activity encouraged interest in herbal and sustainable agriculture

## Conclusion

The Mint Cultivation program organized by the Department of Botany at TGTWRDC (G) Dammapeta was successful and informative. It helped students connect theoretical knowledge with practical experience and promoted awareness about medicinal plant cultivation.

# **SORREL (GONGURA) CULIVETION**

**Location : Ankampalem**

**College : tgtwrdc (G) Dammaapeta**

## **Introduction**

The Department of Botany, TGTWRDC (G) Dammaapeta, organized a Gongura Cultivation activity to provide practical knowledge to students about the cultivation of leafy vegetables. The program aimed to enhance hands-on learning and awareness of the nutritional and economic importance of Gongura.

## **Objectives of the Program**

The main objectives of the Gongura cultivation program were:

- To provide practical exposure to leafy vegetable cultivation
- To understand the growth and life cycle of Gongura
- To create awareness about nutritional and medicinal value of Gongura
- To promote sustainable and eco-friendly agricultural practices

## **Description of the Activity**

The cultivation activity was conducted on the college campus under the guidance of Botany faculty members. The soil was prepared by ploughing, leveling, and removing weeds. Healthy Gongura seeds were selected and sown uniformly in prepared beds.

Faculty members explained suitable soil type, irrigation schedule, and climatic conditions required for Gongura cultivation. Students were also guided on proper watering, weeding, and plant protection measures.

## **Student Participation**

Botany students actively participated in all stages of cultivation such as seed sowing, irrigation, and regular observation of plant growth. The activity encouraged teamwork, discipline, and practical agricultural skills among students.

## **Importance of Gongura**

Gongura is a popular leafy vegetable rich in vitamins, iron, and antioxidants. It helps in improving digestion, boosting immunity, and maintaining good health. It also has good market and economic value.



## Outcomes of the Program

- Students gained hands-on experience in Gongura cultivation
- Awareness about nutritional and economic importance of Gongura increased
- Students learned basic farming and plant management techniques
- The activity promoted sustainable agricultural practices

## Conclusion

The Gongura Cultivation program organized by the Department of Botany at TGTWRDC (G) Dammapeta was successful and educational. It helped students apply theoretical knowledge in practical situations and encouraged interest in agriculture and plant sciences.

# ONION LIQUID PREPARATION

**Location : Ankampalem**

**College : tgtwrdc (G) Dammapeta**

## **Introduction**

The Department of Botany, TGTWRDC (G) Dammapeta, organized an Onion Liquid Preparation activity to provide practical knowledge to students about natural plant extracts and their use in agriculture. The program aimed to promote eco-friendly and organic methods for plant growth and pest control.

## **Objectives of the Program**

The main objectives of the onion liquid preparation activity were:

- To provide hands-on experience in preparing natural plant extracts
- To understand the role of onion extract in plant growth and pest control
- To promote organic and eco-friendly agricultural practices
- To develop practical laboratory and field skills among students

## **Description of the Activity**

The activity was conducted under the guidance of Botany faculty members. Fresh onion bulbs were collected, cleaned, and crushed to extract the juice. The onion extract was then mixed with water in proper proportion to prepare onion liquid.

Faculty members explained the preparation method, dilution ratio, and applications of onion liquid. Students were taught how onion liquid can be used as a natural pesticide and growth promoter due to its antimicrobial properties.

## **Student Participation**

Botany students actively participated in all stages of the activity, including cleaning onions, preparing the extract, filtering, and observing the final liquid. The activity encouraged teamwork and practical learning.

## **Importance of Onion Liquid**

Onion liquid contains sulfur compounds and natural antimicrobial substances. It helps in controlling pests, preventing fungal infections, and improving plant health. It is a cost-effective and environmentally friendly alternative to chemical pesticides.



## Outcomes of the Program

- Students gained practical knowledge of onion liquid preparation
- Awareness about organic farming and natural pest control increased
- Students learned eco-friendly agricultural techniques
- The activity promoted sustainable and chemical-free farming practices

## Conclusion

The Onion Liquid Preparation program organized by the Department of Botany at TGTWRDC (G) Dammapeta was successful and informative. It provided valuable practical exposure and encouraged students to adopt natural methods in agriculture and plant protection.

# **NATURAL COMPOST**

**Location : Ankampalem**

**College : tgtwrdc (G) Dammapeta**

## **Introduction**

The Department of Botany, TGTWRDC (G) Dammapeta, organized a Natural Compost Preparation activity to provide practical knowledge to students about organic waste management and sustainable agriculture. The program aimed to promote eco-friendly practices and improve soil fertility using natural methods.

## **Objectives of the Program**

The main objectives of the natural compost activity were:

- To provide hands-on experience in preparing natural compost
- To understand the importance of compost in improving soil fertility
- To promote organic and sustainable farming practices
- To create awareness about waste recycling and environmental protection

## **Description of the Activity**

The activity was conducted under the guidance of Botany faculty members. Organic waste such as dry leaves, vegetable waste, crop residues, and cow dung were collected. These materials were arranged in layers in a compost pit.

Students were taught about proper layering, moisture maintenance, and regular turning of compost materials. Faculty members explained the decomposition process carried out by microorganisms and earthworms.

## **Student Participation**

Botany students actively participated in collecting organic waste, preparing compost layers, and maintaining the compost pit. The activity encouraged teamwork, responsibility, and practical learning.

## **Importance of Natural Compost**

Natural compost enriches soil with nutrients, improves soil structure, and increases water-holding capacity. It reduces the need for chemical fertilizers and supports healthy plant growth while protecting the environment.



## Outcomes of the Program

- Students gained practical knowledge of natural compost preparation
- Awareness about organic farming and waste management increased
- Students learned sustainable and eco-friendly agricultural practices
- The activity helped in promoting a green and clean campus

## Conclusion

The Natural Compost Preparation program organized by the Department of Botany at TGTWRDC (G) Dammapeta was successful and educational. It helped students understand the importance of organic fertilizers and encouraged the use of natural compost for sustainable agriculture.