

D.K.GOV.T.COLLEGE FOR WOMEN (A), NELLORE

BEST PRACTICES

DEPARTMENT OF BOTANY

2021-22



VERMICOMPOST UNIT

OBJECTIVES:

- To create the awareness on composting practice
- To know about Eco-friendly organic fertilizers
- To know the role of earth worms in nitrifying soil texture
- To know about recycling and decomposition of waste materials

CONTEXT

The vermicomposting practice is conducting in college campus by the department of Botany. It is going on successfully at regular under the management of staff and students. The time lines were given to the students to follow strictly. The litter collected by the students is dumped into the composting pits that allowed for decomposition.

PRACTICE:

The vegetable wastage is also collecting from the hostel kitchen by employing the workers. The composting pits are regularly added with collected litter and farm yard manure. Meanwhile the earthworms are purchased from krishi Vignankendram, Nellore and introduced into the composting pits. The pits are regularly watered and monitored.

After complete decomposition the vermicompost is dug out and sieved to prepare the vermicompost manure. The manure is made into packets and some packets were inoculated with biofertilizers like Rhizobium, Azospirillum, Nostoc, Anabaena, etc to enhance the productivity. Some plants like Jackfruit (*Artocarpus heterophyllus*) fertilized with the vermicompost produced large fruits.

OUT COMES

- The students were given awareness **on** vermicomposting.
- The students were given good knowledge about fertilizing
- They got awareness about the enhancement of crop productivity by organic fertilizers
- They came to know about hazardous nature of chemical fertilizers

RESOURCES REQUIRED:

- Workers to be employed for collecting kitchen debris and animal dung.

Students participating in vermicomposting





Vermicompost preparation and sales by Botany students



SOLID WASTE MANAGEMENT

OBJECTIVES:

- To create awareness among students about pollution
- To encourage the students about social services
- To maintain college campus clean

CONTEXT

Solid waste management is a worldwide problem and it is becoming more and more complicated day by day due to rise in population, industrialization, as well as changes in life style. Management of solid waste reduces or eliminates adverse impact on the environment and human health and supports economic development and improved quality of life.

PRACTICE:

The solid waste management practice is conducting in college campus by the departments of Botany. It is going on successfully at regular intervals on every Monday and Saturday from 4 PM to 5 PM that students were made into groups to sent to various locations to collect the campus wastage. The time lines were given to the students to follow strictly. The litter collected by the students is dumped into the composting pits that allowed for decomposition.

OUT COMES

- Students feel happy to participate in this programme.
- Team building capacities developed among students.
- Maintained college campus clean
- Generated awareness among students about pollution

Students collecting the litter in the college campus



GARDEN DEVELOPMENT

We creating a garden in the department of Botany that is enjoyable and attractive to visit for the purposes of work, rest and contemplation and that contribute positively to the environmental quality of the area.

OBJECTIVES:

- To create awareness about **gardening**.
- To improve skills for growing safe plants without using any pesticides
- To create positive and social capacities in students that helps to improve the skills in managing work, planning and organizing, taking responsibility, working well together.
- To create understanding skills what one is doing, explaining it, taking pride in it
- To improve learning skills from experience.

PRACTICE:

The Garden development practice is conducting in the college campus by the departments of Botany. It is going on successfully at regular intervals on every Monday, Tuesday and Saturday from 4 PM to 5 PM that students were made into groups to sent to various locations in the botanical garden of the college to do land clean and establish new plants. The time lines were given to the students to follow strictly.

OUT COMES

- Students feel happy to participate in this programme.
- Team building capacities developed among students.
- Maintained college campus clean
- Generated awareness among students about gardening
- **Gardening** can provide much more than adding beauty to college campus.

Students Participated in garden work

