DATE: 18/09/2019 MAHABUBNAGAR.

To

The principal,

TTWRDC (W),

Mahabubnagar.

Sub: Reg. Requesting for permission to conduct Certificate Course.

Respected madam,

I, Jayalaxmi, Head of the Department, Department of Botany. I wish to bring to your kind notice that, Department Of Botany is planning to conduct a Certificate Course for interested students on OLERI CULTURE for the academic year of 2019-2020 from 23/09/2019.

In this regard I request you to sanction permission to conduct the above said certificate course.

Thanking You

Your sincerely

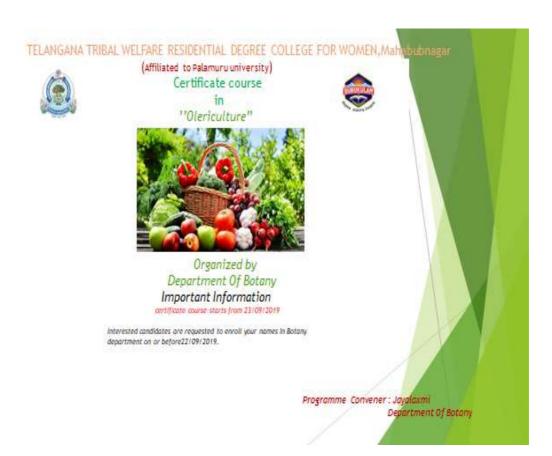
Jayalaxmi,

Head of the Department,

Department of botany

Department of Motany
TTWRDC (W) Mahabubnagar.

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1. About the course:

The word olericulture is derived from the Latin word Oleris which means pot herb and the English word culture which means cultivation. Thus olericulture means cultivation of pot herbs. However, in the present days, it is Bradly used to indicate the cultivation of vegetables. The term vegetable gardening is more popular to signify olericulture in the present context. The term vegetable is applied to the edible herbaceous plant or plant parts thereof, which are consumed generally in the unripe stage after cooking.

Olericulture is the branch of agriculture that deals with the study, cultivation, production, and marketing of vegetables. It involves the application of scientific techniques to maximize the yield, quality, and profitability of vegetable crops. Olericulture plays a vital role in meeting the increasing demand for vegetables in the global food market and in improving human nutrition and health.

Olericulture is the study of vegetable crops, including their cultivation, harvesting, storage, and marketing. The main goal of olericulture is to produce high-quality vegetables that are safe, nutritious, and flavourful. This branch of horticulture is essential for providing fresh produce to consumers and ensuring food security.

With the growing global population, there is a significant increase in the demand for vegetables. Olericulture plays a crucial role in meeting this demand by producing sufficient quantities of fresh, nutritious, and safe vegetables for human consumption. Olericulturists employ advanced scientific techniques to optimize vegetable production, such as crop rotation, pest management, irrigation, and fertilization, to ensure high yields and quality.

Vegetables are an important source of essential nutrients, such as vitamins, minerals, fibre, and Antioxidants, that are crucial for maintaining optimal health. A diet rich in vegetables has been associated with lower risks of chronic diseases such as cancer, diabetes, and heart disease. Olericulture plays a critical role in improving human nutrition and health by producing a diverse range of high-quality vegetables that can contribute to a healthy and balanced diet.

Olericulture is an essential component of the global food market and economy. The production, processing, and marketing of vegetables generate significant income and employment opportunities for students, processors, and traders. The vegetable industry is a significant contributor to local and national economies, providing income and livelihoods to millions of people worldwide.

Department of Botany

Olericulture can also have positive environmental impacts when practiced sustainably. By employing sustainable practices such as integrated pest management, organic farming, and precision agriculture, Olericulturists can reduce the use of harmful chemicals, conserve water, and minimize soil erosion. Sustainable Olericulture practices can help to maintain soil health, preserve biodiversity, and mitigate climate change by reducing greenhouse gas emissions.

In this regard the Department Of Botany, Telangana Tribal Welfare Residential Degree College for Women, Mahabubnagar offering a free certificate course in Olericulture to the students.

- 2. Employment types:
- Olericulturist
- Vegetable tradesperson
- Plant specialist
- Green grocer
- Nursery worker
- Preservation and processing of vegetables

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3. COURSE DETAILS

1	Programme type	Certificate course
2	Mode	Offline
3	Eligibility	B.sc (life sciences)
4	Department	Botany
5	Duration	30 days
6	Specialization	Olericulture
7	Fee structure	Free
8	Programme coordinator	JAYALAXMI , Degree Lecturer In Botany , TTWRDC (W) MAHABUBNAGAR
9	Programme convenor	JAYALAXMI , Degree Lecturer In Botany , TTWRDC (W) MAHABUBNAGAR
10	Course presenters	1. JAYALAXMI , Degree Lecturer In Botany TTWRDC (W) MAHABUBNAGAR

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4. Objectives of the course:

- The nutrient content of the vegetables
- Importance and current scenario of vegetable based industries.
- Export potential of vegetable crops.
- Different vegetable based industries such as seed industry, processing, preservation and value addition in vegetable crops
- Future prospects of vegetable industries and export.
- This training will encourage them to pick vegetable cultivation as a business also helping them to build their entrepreneurial skills.

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TTWRDC (W) MAHABUBNAGAR

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Olericulture

5. Syllabus: Theory (28hrs Duration)

Unit-I (7hrs)

- 1. Introduction And Importance Of Olericulture
- 2. Origin And Classification Of Vegetables
- 3. Nutritional Values Of Vegetables
- 4. Types Of Vegetable Cropping System

Unit-II (7hrs)

- 1. Cultivation of Tomato, Brinjal, Ladies Finger
- 2. Cultivation of Onion, Carrot, Radish
- 3. Cultivation of Bottle Gourd and Cucumber

Unit-III (7hrs)

- 1. Cultivation of Cole Vegetables, Cabbage, Cauliflower
- 2. Cultivation of Leafy Vegetables: Spinach, Rosella, Coriander, Fenugreek
- 3. Preservation and Marketing of Vegetables

Unit-IV (7hrs)

- 1. Role of Chemicals and Growth Regulators in Vegetable Propagation
- 2. Hybrid Seed Production of Vegetable Crops
- 3. Entrepreneurship Opportunities

6. References:

- 1. Compiled Vegetable Science: Madhusudan Reddy & Randir Kumar
- 2. Vegetable Crops: T.R. Gopala Krishnan
- 3. Plant Propagation and Nursery Management: Dr. Arun Kumar Singh & Abhinav Singh
- 4. Vegetable Science: D.Singh
- 5. Vegetable Science and Technology in India: Vishnu Swarup
- 6. Basic Concepts of Vegetable Science: Neeraj Pratap Singh

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Olericulture

7. Syllabus (Practical):14hrs

- Seed dressing, Sowing of Seeds
- 2. Cultivation of Vegetables
- 3. Watering of Vegetable Crops
- 4. Weeding Out In the Crop
- 5. Identification of Diseased Plants
- 6. Controlling Measures of Diseased Plants
- 7. Preservation of Vegetables
- 8. Study of Vegetable Marketing in the Local Market

8. COURSE OUTCOMES

- → Distinguish the growing of vegetables according to season and climate
- ¬ Get detailed knowledge on cultivation aspects of different vegetables
- ¬ Understand and explain the special intercultural operations done in vegetable crops
- Study of morphology and taxonomy of different vegetable crops
- Study of different varieties of vegetable crops
- Identify the diseases and pests of vegetable crops and their management

9. ASSESSMENT:

- 1. A student is assessed for 50 marks. The final assessment is made as given below
- I. A student is assessed for 40 marks by a written test,
- li. A student is assessed 10 marks by a practical exam,
- 2. A student must secure 40 percent of marks in both in theory and practical to pass

10. HOW TO APPLY:

Interested ii year students are informed to register your names with details at Department Of Botany

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Olericulture – Theory Exam

Time: 2hrs

Marks: 40

I. Answer any four of the following questions

4×8 marks =32 marks

- 1. Explain the different types of vegetable cropping systems
- 2. Explain the origin and classification of vegetables
- 3. Describe the cultivation of Brinjal and tomato
- 4. Explain the preservation and marketing of vegetables
- 5. Explain the seed production of vegetable crops
- 6. Explain the entrepreneurship opportunities of olericulture
- II. Answer any four of the following

4×2marks=8marks

- 1. Cucumber
- 2. Rosella
- 3. Spinach
- 4. Bottle Gourd
- 5. Growth Regulator
- 6. Hybridization

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Mahabubnagar

Conduction of certificate course on olericulture



Preparation of soil for cultivation



Removing weeds from garden



Harvesting Leafy Vegetables





DEPARTMENT OF BOTANY

COURSE- Olericulture

ATTENDANCE OF THE STUDENTS

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DEPARTMENT OF BOTANY

COURSE- Olericulture
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DEPARTMENT OF BOTANY

COURSE- Olericulture

ATTENDANCE OF THE STUDENTS

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TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE FOR WOMEN, MAHABUBNAGAR



(Affiliated to Palamuru University)

Certificate

This is to Certify that Ms	G. SWETHA
D/o G VENKATESH	is
Studying 824- II	at TTWRDC (W) Mahabubnagar
95.0 E	ertificate Course in OLERICULTUREFrom
23/09/2019 to 10/03/2020	Organized by the Department of
BOTANY	During the academic year. 2019 - 2020



Department of Botany

Head of the Department





