

# A.S.D GOVT DEGREE COLLEGE FOR WOMEN (A)

(Re-Accredited by NAAC with 'B')

KAKINADA 533002, EASTGODAVARI, ANDHRA PRADESH

## DEPARTMENT OF BOTANY & HORTICULTURE

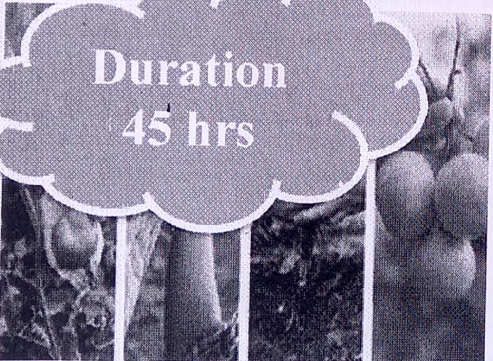
### NOTICE

Department of Botany and Horticulture offering Certificate Course on

### **ECOFRIENDLY FARMING**

#### Objectives:


- ❖ To keep and build good soil structure and fertility.
- ❖ To Control pests, diseases and weeds naturally
- ❖ To promote more usage of natural pesticides.
- ❖ To Ensure the right soil cultivation at the right time.
- ❖ To maintain environment health by reducing the level of pollution
- ❖ To reduce the cost of agricultural production and also to improve the soil health



**Duration**  
45 hrs



**Students Intake -50**



**Eligibility**  
I, II year & III  
year U.G  
students

**Course Starts on 19.12.2022**

Interested students can enroll their names in the  
Department of Botany & Horticulture

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## DEPARTMENT OF BOTANY & HORTICULTURE

Certificate Course on – Ecofriendly Farming (2022 – 2023)

Duration : 45 Hours

Teaching Hours : 45 Hours @ 3 Hrs/ Week Theory  
2 Hr/ Week Practical

Students Intake : 50

Eligibility : I year / II year/III year U.G students

### **Objectives:**

- To keep and build good soil structure and fertility.
- To Control pests, diseases and weeds naturally
- To promote more usage of natural pesticides.
- To Ensure the right soil cultivation at the right time.
- To maintain environment health by reducing the level of pollution
- To reduce the cost of agricultural production and also to improve the soil health

### **COURSE OUTCOMES:**

- To introduce students to the holistic concept Ecofriendly farming.
- The candidate will be able to Control pests, diseases and weeds naturally
- The student gains knowledge about various Ecofriendly Farming certifying agencies
- The candidate will be able to examine the challenges and trends in the production of Ecofriendly farm products.
- To acquaint students with cultural crop production practices typically employed in Ecofriendly farming

### **Evaluation Process:**

Assessment of candidates will be done through theoretical assignments, projects & practical examinations after completion of each module. All successful candidates will be awarded with certificates.



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## DEPARTMENT OF BOTANY & HORTICULTURE

Certificate Course on **ECOFRIENDLY FARMING** Syllabus

### **UNIT : I Concept of Eco friendly farming: (12 hrs)**

- Introduction –Eco friendly Farming , Components of Ecofriendly Farming, Principles of Eco friendly Farming, types of Eco friendly Farming,.
- Benefits of Eco friendly Farming, need for Eco friendly Farming, Conventional v/s Eco friendly Farming.
- Requirements for Eco friendly Farming, farm components for an Eco friendly Farming
- Role of Native Cow and Earth Worms in Eco friendly Farming

### **UNIT : II Green manuring & Bio-fertilizers (12 hrs)**

- Organic farming systems, soil tillage, land preparation and mulching.
- Propagation-seed, planting materials and seed treatments, water management
- Green manuring, composting- principles, stages, types and factors, composting methods, Vermi composting.
- Bio-fertilizers- types, methods of application, advantages and disadvantages, standards for organic inputs- fertilizers

### **UNIT : III Plant protection practices & Use of microorganisms (12 hrs)**

- Plant protection- cultural, mechanical, botanical pesticides, control agents
- Organic crop production methods- vegetables- Okra, Amaranthus, Tomato.
- Weed management
- Need of Microorganisms, Benefits of microorganisms, Management of Microorganism



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**DEPARTMENT OF BOTANY**

Certificate Course on **ECOFRIENDLY FARMING** Practical Syllabus

1. Raising of Green Manure Crops
2. Deficiency symptoms of nutrient deficiency symptoms (photographs)
3. Preparation of enriched Farm Yard Manure.
4. Study of composting methods.
5. Transplanting of Vegetables in Main field.
6. Growing Leafy Vegetables Organically
7. Preparation of Neemastram and Agnastram.
8. Preparation of Jeevamrutham.
9. Raising Seedlings of different Vegetable Crops in Nursery Beds.
10. Raising Seedlings of different Vegetable Crops in Protrays.

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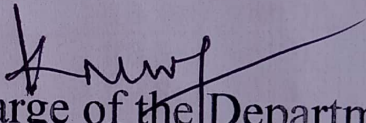
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KAKINADA 533002 EASTGODAVARI, ANDHRA PRADESH

## DEPARTMENT OF BOTANY

2022-2023

UNIT-1	K.N.V.S.N. ESWARI
UNIT-2	Dr.M.SULAKSHANA
UNIT-3	N.PUSHPA

  
Incharge of the Department

Lecturer  
Department of Botany  
Incharge in Botany  
A.S.D. Govt. Degree College for Women  
KAKINADA

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## DEPARTMENT OF BOTANY & HORTICULTURE

Certificate Course on ECOFRIENDLY FARMING enrolled students

SNo.	Name of the student	Class & Group
1	E. Revathi	IIB.Sc.( CBHT)
2.	M. Devi	IIB.Sc.( CBHT)
3.	V. Satyaveni	IIB.Sc.(CBMB)
4.	V. Maneesha	IIB.Sc.(CBMB)
5.	R. Kusuma	IIB.Sc.(CBMB)
6.	V.Keerthi	IIB.Sc.(CBMB)
7.	P. Jahnavi	IIB.Sc.(CBMB)
8.	G.Prasanna	IIB.Sc.(CBMB)
9.	P. Divya	IIB.Sc.(CBMB)
10.	B. Sridurga	IIB.Sc.(CBMB)
11	D.Neelima	IIB.Sc.(CBMB)
12	K.Durgahavani	IIB.Sc.(CBMB)
13	T.Ganga Bhavani	IIB.Sc.(CBMB)
14	A.Sandhya	IIB.Sc.(CBMB)
15	Md.Kowsar	IIB.Sc.(CBMB)
16.	U.Sujana	II B.Sc ( CBMB)
17	K. Amulya	IIB.Sc.(CBZ)
18	M.Sravani	IIB.Sc.(CBZ)
19	M.Vijayalakshmi	IIB.Sc.(CBZ)
20	CH. Swarna	IIB.Sc.(CBMB)
21	P.Kusuma	IIIB.Sc.(CBZ)
22	S.Yamini	IIIB.Sc.(CBZ)
23	N.Jyothi	IIIB.Sc.(CBZ)TM
24	P.Akhila	IIIB.Sc.(CBHT)
25	P.Nagalakshmi	IIIB.Sc.(CBZ)EM
26	P.Bhargavi	IIIB.Sc.(CBZ)EM
27	P.Chandini Devi	IIIB.Sc.(CBZ)EM
28	Y.Sridevi	IIIB.Sc.(CBZ)TM
29	S.Ramya Sri	IIIB.Sc.(CBZ)EM
30	P.Devi Sri	IIIB.Sc.(CBZ)EM
31	A.Teja Sree	IIIB.Sc.(CBZ)EM

Signature of the Lecturer Incharge

Lecturer  
Department of Botany  
Incharge in Botany  
A.D. Govt. Degree College for Women  
KAKINADA





Faculty of the Department demonstrating the preparation of Jeevamrutham to the students



Faculty demonstrating the preparation of Nemastram to the students

**A.S.D.GOV.T.DEGREE COLLEGE FOR WOMEN(A), KAKINADA**  
DEPARTMENT OF BOTANY & HORTICULTURE

**Ecofriendly Farming Certificate course Examination 2022-2023**

Name:

Date:

Class:

Marks :

Reg. No. :

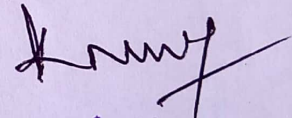
**Multiple Choice Questions**

1. The best practice to maintain soil health in Ecofriendly farming ( )  
(a) Crop rotation (b) Synthetic fertilizers (c) using black soil (d) monoculture
2. Vermicomposting is prepared by ( )  
(a) Animals (b) Worms (c) Bacteria (d) Fungus
3. Which Country has more Ecofriendly farming practices ( )  
(a) Australia (b) India (c) The United States (d) the Uk
4. The Soil Ph Can Be Increased By Adding ( )  
(a) Lime (b) Nitrogen (c) Sand (d) Potash
5. The Breeding and Rearing of Earthworms in a controlled environment is called ( )  
(a) Vermiwash (b) Vermiculture (c) Vermicomposting (d) Vermicasting
6. The main organic product export market for india is ( )  
(a) china (b) the USA (c) canada (d) Europe
7. which crops /plants contain nitrogen fixing bacteria ( )  
(a) Cotton (b) Maize (c) Paddy (d) Gram crop
8. Which One of the Farming practices is Eco friendly ( )  
(a) Hydroponics (b) Conventional Farming (c) Ecofriendly farming (d) None
9. The cultivation cost of organic food is ( )  
(a) More than conventional farming (b) Less than conventional  
(c) Equal (d) None of the above
10. Usually ,Green manuring increases the Crop Yield ( )  
(a) 10 To 15% (b) 20to25% (c) 30to50% (d) 70to80%
11. Which of these is NOT allowed in organic cultivation ( )  
(a) Sewage sludge (b) Crop rotation (c) Cover crops (d) Buffer
12. In which year an Ecofriendly farming movement started ( )  
(a) 2000 (b) 1980 (c) 1960 (d) 1930
13. National centre of Ecofriendly farming in India is located in ( )






- (a) Ghaziabad (b) Hyderabad (c) Kochi (d) Pune
14. Azolla Bio fertilizer is mainly used in the crop ( )  
 (a) Jowar (b) Rice/Paddy (c) Maize (d) Millets
15. Which of the Following is Nitrification Inhibitor ( )  
 (a) Neem cake (b) Cottonseed cake (c) Groundnut cake (d) Mustard cake
16. How weeds are controlled in Ecofriendly farming ( )  
 (a) Wood chips mulch (b) Pesticides (c) Herbicides (d) All the above
17. What is the first state of India that adopted Ecofriendly farming very well ( )  
 (a) Gujarat (b) Sikkim (c) Uttarakhand (d) Kerala
18. What is intercropping ( )  
 (a) Maximum utilization of nutrients supplied (b) Continuous irrigation  
 (c) There are no set pattern of rows of crops (d) Harvesting two crops at a time
19. Who is the father of the Green Revolution in India ( )  
 (a) Gandhi (b) Nehru (c) M.S. Swaminath (d) Patel
20. The best way to identify the difference between Organic and Non Organic foods ( )  
 (a) Look for the organic label (b) By squeezing test (c) By price (d) None of the above



Lecturer  
 Department of Botany  
 Incharge in Botany  
 A.S.D. Govt. Degree College for Women  
 KAKINADA

  
 PRINCIPAL  
 A.S.D. GOVT. DEGREE COLLEGE (W)  
 AUTONOMOUS  
 KAKINADA





# A.S.D. GOVERNMENT DEGREE COLLEGE (W)(A), KAKINADA

Re-Accredited by NAAC with 'B' Grade in Cycle III  
(Affiliated to Adikavi Nannaya University, Rajamahendravaram)

## Certificate Course

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## Ecofriendly Farming

This is to certify that Ms. P. Akhila


of B.Sc. (COEET) has completed 45 Days Certificate Course on Ecofriendly Farming Organized by


the Department of Botany & Horticulture, A.S.D. Government Degree College for Women (A),

Kakinada from 19-12-2022 to 02-02-2023

  
Ms. K.N.V.S.N. EDWARI  
Convenor & Incharge

  
Dr. M. SULAKSHANA  
Co-Convenor

  
Smt. M. SIVARCHALA  
Vice-Principal

  
Dr. V. ANANTHA LAKSHMI  
Principal