

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

KAKINADA

CERTIFICATE COURSE

NATURAL FARMING

2023-2024

1/2/24

Departmental Staff meeting

The staff members of the Department met on 1/2/24 to discuss the following Agenda

- 1) Conduct of competitions to the students in connection with World Wetlands Day
- 2) Completion of syllabus to the students
- 3) Preparation of NAAC Records.
- 4) Conduct of Certificate course to the students who opted to do it.
- 5) Conduct of National Science day celebrations.

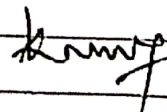
Resolutions:

- ① It is resolved to conduct quiz competition to the students in connection with World Wetlands Day 2024 on the theme "Wetlands and Human Well being" which highlights the role of wetlands in improving human lives
- ② It is resolved to complete the syllabus and prepare the students for Exams.
- ③ It is resolved to update Records for NAAC visit
- ④ It is resolved to initiate certificate course titled as Natural Farming to the students in II Semester Home Science Students who opted to do it.
- ⑤ It is resolved to observe National Science day 2024.

Staff

Dr. M. Sultakhan
Mrs. N. Pushpa
Ms. G. Chandini

M. Sultakhan
Ms. G. Chandini



Kakinada,
24.2.2024.

From
K.N.V.S.N.ESWARI
Lecturer Incharge
Department of Botany
A.S.D. Government Degree College(W),(A)
Kakinada.

To
The Principal,
A.S.D. Government Degree College (W) (A),
Kakinada.

Respected Madam,

Sub: Department of Botany - Request for Permission to initiate a
Certificate Course in Natural farming for I year U.G students Reg.

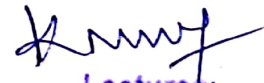
The Department of Botany is going to offer a Certificate
Course in "Natural Farming" for I year U.G students for the year 2023-24 . In this
regard, I request you to kindly give us permission to launch the course for the year
2023-24. A copy of the syllabus is enclosed herewith for your kind perusal.

Thanking you Madam

Copy to

- 1.Controller of Examinations
- 2.IQAC Coordinator

Yours Faithfully,



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

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

(Re-Accredited by NAAC with 'B')

KAKINADA 533002, EAST GODAVARI, ANDHRA PRADESH
DEPARTMENT OF BOTANY & HORTICULTURE

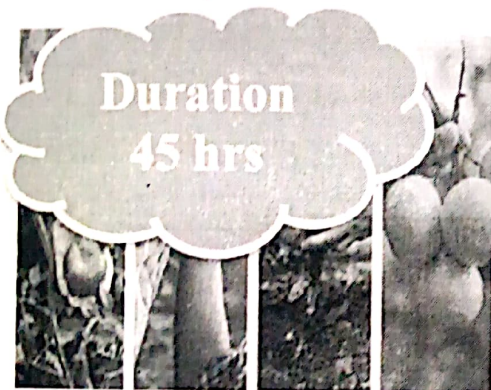
NOTICE

Department of Botany and Horticulture offering Certificate Course on

NATURAL FARMING

Objectives:

- ❖ To enhance & maintain Soil fertility and structure
- ❖ To Ensure long term agricultural productivity and resilience
- ❖ To use methods that protect & efficiently manage water resources
- ❖ To utilize natural pest control methods & promote plant health
- ❖ To Support farmers by reducing input costs & improving resilience
- ❖ To produce food that is free from synthetic chemicals & focusing on nutrient rich crops.



Students Intake -20

Eligibility
1 year U.G.
students

Course Starts on 27.2.2024

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

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Certificate Course on – Natural Farming

Duration	: 45 Hours
Teaching Hours	: 45 Hours
Students Intake	: 20
Eligibility	: I year U.G students

Objectives:

- To enhance & maintain Soil fertility and structure
- To Ensure long term agricultural productivity and resilience
- To use methods that protect & efficiently manage water resources
- To utilize natural pest control methods & promote plant health
- To Support farmers by reducing input costs & improving resilience
- To produce food that is free from synthetic chemicals & focusing on nutrient rich crops.

COURSE OUTCOMES:

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

Evaluation Process:

Assessment of candidates will be done through theoretical examination after completion of each module. All successful candidates will be awarded with certificates.

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Certificate Course on NATURAL FARMING Syllabus 2023-24

UNIT : I Concept of Natural farming:

(12hrs)

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

UNIT : II Natural Plant Nutrient Management

(12hrs)

- Propagation-seed, planting materials and seed treatments, Irrigation
- Preparation of enriched Farm Yard Manure
- Preparation of Neemastram and Jeevamrutham.
- Natural farming systems, soil tillage, land preparation and mulching.

UNIT : III Natural crop production practices

(12 hrs)

- Plant protection- cultural, mechanical, botanical pesticides, control agents
- Natural crop production methods of Vegetables- Okra, Amaranthus, Tomato.
- Weed management
- Raising Seedlings of different Vegetable Crops in Nursery Beds & Protrays

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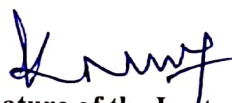
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DEPARTMENT OF BOTANY & HORTICULTURE

Certificate Course on NATURAL FARMING Enrolled students

SNo.	Name of the student	Class & Group
1	M.Sreeja	I B.Sc. Home science
2	D.Mounika	I B.Sc. Home science
3	D.Usha	I B.Sc. Home science
4	K. Sravya kumari	I B.Sc. Home science
5.	V.Janaki	I B.Sc. Home science
6.	B. Rajeswari	I B.Sc. Home science
7.	B.Veera Laxmi	I B.Sc. Home science
8	G.Rekhadevi	I B.Sc. Home science
9.	K.Mounika	I B.Sc. Home science
10.	M.Premalatha	I B.Sc. Home science
11	P.Sravani chandrika	I B.Sc. Home science
12.	P.Sanjana	I B.Sc. Home science
13	P.Srija	I B.Sc. Home science
14	P.Pavani	I B.Sc. Home science
15	S.Sowmya	I B.Sc. Home science
16	S.Srilatha	I B.Sc. Home science
17	Sk.Nazir Nisha	I B.Sc. Home science
18	T.Divya Jyothi	I B.Sc. Home science
19	V.Nandini	I B.Sc. Home science



Signature of the Lecturer Incharge

Lecturer

Department of Botany
Incharge in Botany

A.S.D. Govt. Degree College for Women
KAKINADA

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

DEPARTMENT OF BOTANY

Natural Farming Certificate Course 2023-24 Attendance .

SNo.	Name of the student	Class	27/2/24	28/2/24	29/2/24	1/3/24	2/3/24	5/3/24	5/3/24	7/3/24	8/3/24	11/3/24	12/3/24	13/3/24
1	M.Sreeja	I B.Sc. Home science	P	X	X	X	X	X	P	X	X	X	P	X
2	D.Mounika	I B.Sc. Home science	P	X	X	X	X	X	P	X	X	X	a	X
3	D.Usha	I B.Sc. Home science	P	X	X	X	X	X	P	X	X	X	P	X
4	K. Sravya kumari	I B.Sc. Home science	a	X	X	X	X	X	a	X	X	X	P	a
5.	V.Janaki	I B.Sc. Home science	P	X	a	X	X	X	P	X	X	X	P	X
6.	B. Rajeswari	I B.Sc. Home science	P	a	X	X	a	X	P	X	X	X	P	X
7.	B.Veera Laxmi	I B.Sc. Home science	a	X	X	X	X	X	P	X	X	a	P	X
8	G.Rekhadevi	I B.Sc. Home science	a	X	X	X	X	a	P	X	X	X	P	X
9.	K.Mounika	I B.Sc. Home science	P	X	X	X	a	X	P	X	X	X	P	X
10.	M.Premalatha	I B.Sc. Home science	P	X	X	X	X	X	a	X	X	X	P	X
11	P.Sravani chandrika	I B.Sc. Home science	P	a	X	X	X	X	P	X	X	X	a	X
12.	P.Sanjana	I B.Sc. Home science	a	X	X	X	X	X	P	X	X	X	P	X
13	P.Srija	I B.Sc. Home science	P	X	X	a	X	X	P	X	X	X	P	X
14	P.Pavani	I B.Sc. Home science	P	X	X	X	X	a	P	X	X	X	a	X
15	S:Sowmya	I B.Sc. Home science	a	X	X	X	X	X	P	X	X	X	P	X
16	S.Srilatha	I B.Sc. Home science	P	X	a	X	X	X	P	X	X	a	P	X
17	Sk.Nazir Nisha	I B.Sc. Home science	P	X	X	X	X	a	P	X	X	X	P	X
18	T.Divya Jyothi	I B.Sc. Home science	a	X	X	X	X	X	P	X	X	X	P	X
9	V.Nandini	I B.Sc. Home science	P	a	X	X	X	X	P	a	X	X	P	X

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Natural Farming Certificate Course 2023-24 Attendance

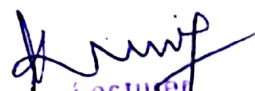
SNo.	14/3/24	15/3/24	16/3/24	18/3/24	19/3/24	20/3/24	21/3/24	22/3/24	23/3/24	24/3/24	27/3/24	28/3/24	30/3/24	1/4/24	2/4/24	3/4/24	5/4/24	6/4/24	8/4/24	10/4/24	12/4/24	15/4/24	15/4/24
1	X	Q	X	X	X	X	X	X	X	X	Q	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	Q	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	Q	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	Q	X	X	Q	X	X	X	X	X	X	X	Q	X	X	X	Q	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Q	X	X	X	Q	X	X	X	X
6	Q	X	X	X	X	X	X	X	X	X	X	X	X	X	Q	X	X	X	X	X	X	X	Q
7	X	X	Q	X	X	X	X	X	X	X	X	X	X	X	X	X	Q	X	X	X	X	X	X
8	X	X	X	Q	X	X	Q	X	X	X	X	Q	Q	X	X	X	X	X	X	X	Q	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Q	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	Q	X	X	X	X	X	X	X	X	X	Q	X	X	X	X	X	Q	X	X	X	X	X	X
12	X	X	X	X	Q	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	Q	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	Q	X	X	X	X	X	Q	Q	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Q	X	X	X
16	X	Q	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	Q	X	X	X	X	X	X	X	X	X
18	X	X	Q	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Q	X
19	X	X	X	X	X	X	X	X	X	X	Q	X	X	X	Q	X	X	X	X	X	X	X	X

(Handwritten signatures or marks)

Natural Farming Certificate Course 2023-24 Attendance

S.No.	18/3/24	19/3/24	20/3/24	21/3/24	22/3/24	23/3/24	24/3/24	25/3/24	26/3/24	27/3/24	28/3/24								
1	X	X	X	X	X	Q	X	X	X	X									
2	X	X	X	X	X	X	X	Q	X	X									
3	X	X	X	X	X	X	X	X	X	Q									
4	Q	X	X	X	X	X	X	X	X	X									
5	X	X	X	X	Q	X	X	X	X	X									
6	X	X	X	X	X	X	Q	X	X	X									
7	X	X	X	X	X	X	X	X	X	X									
8	X	Q	X	X	X	X	X	X	X	X									
9	X	X	X	X	X	Q	X	X	X	X									
10	X	X	X	X	X	X	X	X	X	X									
11	X	X	X	X	Q	X	X	X	X	X									
12	X	X	X	X	X	X	X	X	X	X									
13	X	X	X	X	X	Q	X	X	X	X									
14	X	Q	X	X	X	X	X	X	X	X									
15	X	X	X	X	X	X	X	X	Q	X									
16	X	X	X	X	X	X	X	X	X	Q									
17	X	X	X	X	X	X	X	X	X	X									
18	X	X	X	Q	X	X	X	X	X	X									
19	X	X	X	X	X	X	X	Q	X	X									

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 Lecturer
 Department of Botany
 Incharge in Botany
 P.D. Govt. Degree College for Women
 HAKINADA



Certificate course enrolled students writing the exam



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

I Year B.Sc Degree examinations at II Semester End.

Certificate course- Natural Farming Model Paper

Time :2 hrs

Max marks:40M

Answer Any TEN of the following questions

SECTION-A

10x2=20M

1. Define Natural Farming
2. Soil tillage
3. Irrigation
4. Botanical Pesticides
5. Weed Management
6. Mulching
7. Farm Yard Manure
8. Benefits of organic farming
9. Farm components of an organic farm
10. Seed treatment
11. Neemastram
12. Earthworms in Organic Farming

SECTION-B

Answer any FOUR of the following Questions

4x5=20M

1. Principles & kinds of Natural Farming
2. Conventional Vs. Natural Farming
3. NADEP Compost Pit
4. Preparation of Jeevamrutham
5. Plant protection
6. Raising seedlings of different Vegetable Crops

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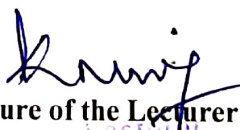
DEPARTMENT OF BOTANY & HORTICULTURE

Certificate Course 2023-24

NATURAL FARMING Exam date: 20.7.2024

Marks obtained by the participants in qualifying exam

SNo.	Name of the student	Class & Group	Marks obtained
1	M.Sreeja	I B.Sc. Home science	39
2	D:Mounika	I B.Sc. Home science	38
3	D.Usha	I B.Sc. Home science	39
4	K. Sravya kumari	I B.Sc. Home science	40
5.	V.Janaki	I B.Sc. Home science	40
6.	B. Rajeswari	I B.Sc. Home science	36.
7.	B.Veera Laxmi	I B.Sc. Home science	37.
8	G.Rekhadevi	I B.Sc. Home science	38
9.	K.Mounika	I B.Sc. Home science	36
10.	M.Premalatha	I B.Sc. Home science	39
11	P.Sravani chandrika	I B.Sc. Home science	40
12.	P.Sanjana	I B.Sc. Home science	39
13	P.Srija	I B.Sc. Home science	36
14	P.Pavani	I B.Sc. Home science	37
15	S.Sowmya	I B.Sc. Home science	38
16	S.Srilatha	I B.Sc. Home science	40
17	Sk.Nazir Nisha	I B.Sc. Home science	39
18	T.Divya Jyothi	I B.Sc. Home science	38
19	V.Nandini	I B.Sc. Home science	35


Signature of the Lecturer Incharge

Lecturer
Department of Botany
Incharge in Botany
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