



**Govt. College for Women**  
(AUTONOMOUS) - GUNTUR. 1942 (Estd.)  
College with Potential for Excellence



**Certificate course in organic farming and sustainable Agriculture**

**From 14-9-2022 to 30-11-2022**



**Department of Botany**

**Government College for Women (Autonomous), Guntur**  
**Department of Botany**  
**Certificate course on organic farming and sustainable agriculture**

From  
Dr.Ch. Bhaskar Rao.  
Head of the Department  
Department of Botany

To  
The principal  
GCW (A)  
Guntur.

Respected Madam,

**Sub:** Department of Botany- Certificate course on **organic farming and sustainable agriculture**  
- Request for permission to start the course from 14-09-2022 for B. Sc 2<sup>nd</sup> year students  
- Reg


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It is to bring to your kind notice that, the Department of Commerce is going to organize certificate course on **organic farming and sustainable agriculture** for B.Sc. 2<sup>nd</sup> year students.

We kindly request your permission to proceed with the planning and implementation of the certificate course on **organic farming and sustainable agriculture** We look forward to your favorable response and the opportunity to contribute to the academic excellence of our students. We would be grateful if you could give us your permission to start the course.

Thanking you,

Yours faithfully

  
Signature of  
HOD  
HEAD OF THE DEPARTMENT  
DEPT. OF BOTANY  
GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR-522 001, A.P.

6-9-2022

Guntur

9.9.2022

**GOVERNMENT COLLEGE FOR WOMEN(A), GUNTUR**  
**DEPARTMENT OF BOTANY**  
**CIRCULAR**

All the IV semester life sciences students are informed that the department of Botany is conducting a certificate course in Organic farming and sustainable agriculture scheduled from 14<sup>th</sup> September 2022 to 30<sup>th</sup> November 2022.

**Course details:**

Duration : 30 Hours


No of seats : 50

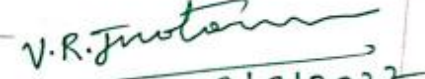
Course timings: 9Am to 9.45.Am and 5pm -6pm

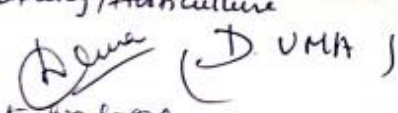




Maximum credits: 2 credits

Interested students may consult in the department of Botany for further details

  
Signature of the  
Course coordinator

  
Signature of  
HOD  
HEAD OF THE DEPARTMENT  
DEPT. OF BOTANY  
GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR-522 001, A.P.

  
Signature of the  
principal  
PRINCIPAL  
GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR.

1. Botany/Horticulture  
 (D V M A)
2. Biotechnology  
B. Aravind (B. Aravind) - Biotechnology
3. Microbiology (P. Aruna) - 
4. Biochemistry B. Doreen 
5. Zoology  G. V. S. R.
6. Chemistry  H. S. R.
7. Chemistry Latha R.  
(Dr. B. Latha)





**Govt. College for Women**  
**(AUTONOMOUS) - GUNTUR. 1942 (Estd.)**  
College with Potential for Excellence

**DEPARTMENT OF BOTANY**

**A certificate course in**

**“Organic farming and sustainable Agriculture”**

**About the college:** Government college for women (A), Guntur, established in 1942, has been a higher education institution par excellence in imparting knowledge, skills and values through student centered approaching methods. It has been a prestigious and pioneering institution in introducing programs and courses that enhance the skills of the youth. It is an autonomous institution that focuses on need-based learning

**About the Department:**

The Department of Botany came in to existence with the inception of the college and offering programme that cover various aspects of plant biology and related fields providing students with a comprehensive understanding of plant life and promoting awareness of plant biology and conservation and sustainable practices.

**About the course**

Organic farming certificate course is a specialized certificate programme is designed to provide comprehensive knowledge and practical skills related to organic farming practices. These courses aim to equip participants with the understanding of organic farming principles, techniques and methods to promote sustainable and environmentally friendly agricultural practices

**Outcomes of the course:** On completion of this course, students will have

knowledge to Cultivate and grow certain crops organically  
Understood the organic Plant protection methods  
Demonstrated the Organic production practices  
Developed confidence to create Self-employment and income generation through marketing of organically raised agricultural products

**Description of the course:** organic farming certificate course: This course helps to grow crops using natural methods without harmful chemicals. Understand the methods to improve soil health, mange pests naturally and use compost and other organic fertilizers. It develops the skills to plan and manage ecofriendly farming

**Course details:**

**No. of seats :50**

**Duration of the course: 30 hours**

**Criteria of Assessment:**

**Evaluation: 50 marks: Test: 30marks**

**Practical /Fieldwork/Project**

**: 20 marks**

**No of credits: 2 credits**

**Eligibility criteria to get the certificate**

**75% Attendance**

**Attending test and securing 40%**

**Syllabus:**

**Unit I Concept of organic farming (5 hrs)**

Introduction: concept and development of organic farming. Principles of organic farming & need for organic farming, Types of organic farming, Benefits of organic farming. Conventional farming v/s organic farming, components required for organic farming

**Unit II. Organic plant nutrient management (5 hrs)**

Soil tillage, land preparation and organic manures - mulching green manuring, Composting  
Vermicomposting, Organic Preparations - organic fertilizers-types, methods of application and advantages.

**Unit III. Organic plant protection (5 hrs)**

Plant protection- cultural, mechanical, botanical pesticides, biopesticides, biocontrol agents, Weed management.

**Unit IV: Organic crop production practices (5 hrs)**

Propagation-seed, planting materials and seed treatments, Organic crop production methods-  
**Field work /Practical -10 hrs**

**Course Faculty:**

- Smt. M. Santosh kumari
- Dr.Ch. Bhaskar Rao
- Smt. D. Uma
- Smt.B. Jasmine

**Principal**

**Dr.V.R.Jyotsna kumari**

**Course Coordinator**

**Smt.M.Santosh kumari**

# Department of Botany

## **CERTIFICATE COURSE**

Govt. College for Women(A), Guntur

### **Department of Botany**

Certificate course in organic farming and sustainable Agriculture

Duration -30 hrs

Credits: 02

#### **Context and significance of the Course**

This certificate course is designed and offered as a vocationally-oriented entrepreneurial course focusing on organic agriculture, a farming without synthetic pesticides and conventional fertilizers. This is a socially and environmentally conscious approach to agriculture that is currently experiencing rapid growth in the sector, India is fast becoming a major base for production and supply of organically produced agricultural products to the world market. The course includes principles, management, and organic production practices

#### **Course objectives**

The main objective of the programme is to:

- impart knowledge and proficiency in Organic production practices
- promote self-employment and income generation. through marketing of organically raised agricultural produces

## **Syllabus & Allocation of Hours**

Duration -30hrs

Credits – 02

Theory 20 Hrs.

practical 10 hours

### **Unit I Concept of organic farming (5 hrs.)**

Introduction: concept and development of organic farming. Principles of organic farming & need for organic farming, Types of organic farming, Benefits of organic farming. Conventional farming v/s organic farming, components required for organic farming

### **Unit II. Organic plant nutrient management (5 hrs.)**

Soil tillage, land preparation and organic manures - mulching green manuring, Composting Vermicomposting, Organic Preparations- Organic {fertilizers- types, methods of application- and advantages

### **Unit III. Organic plant protection (5 hrs.)**

Plant protection- cultural, mechanical, botanical pesticides, biopesticides, biocontrol agents, Weed management.

### **Unit IV: Organic crop production practices (5 hrs.)**

Propagation-seed, planting materials and seed treatments. Organic crop production methods-

The certificate course was run after college teaching hours i.e . 4-5 in our laboratory.32 students registered for the course. The classes were handled by four of the faculty of Dept. of Botany. classes were handled in activity-based student-centered method. Students went to Rythunestham foundation field work and internship to gain practical experience in natural farming and production of value-added agricultural products.

Attendance was marked and only those students who had 50% of attendance were allowed to write the final summative examination. Out of 31 registered students 30 students have completed the course and received course completion certificate

The course is designed and developed by the course coordinator Smt. M. Santosh kumari and the following faculty taught the course

- Smt. M. Santosh kumari
- Dr. Ch. Bhaskar Rao
- D. Uma
- B. Jasmine

**Outcomes of the certificate course:** On successful completion of this course, students will have


- knowledge to Cultivate and grow certain crops organically
- Understood the organic Plant protection methods
- Demonstrated the Organic production practices
- Developed confidence to create Self-employment and income generation through marketing of organically raised agricultural products

#### **Career opportunities**

- Can start own business in organic products
- cultivate and grow horticultural crops organically
- generate income through organic olericulture
- Seek work with super markets

GOVERNMENT COLLEGE FOR WOMEN(A), GUNTUR  
**DEPARTMENT OF BOTANY**  
**Certificate course in” Organic farming and sustainable Agriculture”**  
**List of students enrolled for the course**

Sl.no	Regd. No	Name of the student	Class & Group
1	20409001	ANGADI SIRISHA	II BSC BZC
2	20409002	AYITABATTULA MINNI BLESSY	II BSC BZC
3	20409004	BEJJAM NISSY	II BSC BZC
4	20409007	CHILAKA KEERTHI	II BSC BZC
5	20409008	DASARI MADHURI	II BSC BZC
6	20409009	DAVULURI SAHANASRI	II BSC BZC
7	20409010	DEVALLA BHARGAVI	II BSC BZC
8	20409013	GALLA MYDHILI RATHNA	II BSC BZC
9	20409015	GOLLA SHINY	II BSC BZC
10	20409016	GORREPATI HEPSIBA	II BSC BZC
11	20409017	GUDIMETLA ALEKHYA	II BSC BZC
12	20409018	IMMADI HEMALATHA	II BSC BZC
13	20409019	INUMUKKALA MARIYAMMA	II BSC BZC
14	20409020	JANDRAJUPALLI HAVILA	II BSC BZC
15	20409021	K AFSHA THAISEEN	II BSC BZC
16	20409022	KANDAGATLA LAKSHMI PUJITA	II BSC BZC
17	20409023	KANURU HARIKESWARI	II BSC BZC
18	20409025	KOTHAPALLI VENKATA SIRISHA	II BSC BZC
19	20409026	KUVVARAPU SUREKHA	II BSC BZC
20	20409027	MADDUMALA HARICHANDANA	II BSC BZC
21	20409028	MANDE KARUNA RAJYAM	II BSC BZC
22	20409030	NAMALA GOPIKATULASI	II BSC BZC
23	20409031	NANDURI ASHA JYOTHI	II BSC BZC
24	20409032	PATHALAVATH LAKSHMI BAI	II BSC BZC
25	20409033	PATRA DHARANI	II BSC BZC
26	20409034	RIKKA SUVARNA	II BSC BZC
27	20409035	SHAIK KARISHMA ARA	II BSC BZC
28	20409035	SHAIK MOHAMMAD RUKSANA	II BSC BZC
29	20409037	SHAIK SHEMANAZ	II BSC BZC
30	20409038	SHAIK VASEEMA	II BSC BZC
31	20409039	YAKKALA MEGHANA	II BSC BZC

  
signature of the course  
coordinator.



**Theory Timetable – Day wise topics**

Date	Topic covered	No of hrs.
14-09-2022	Inauguration & Introduction	1hr
15-09-2022	<a href="#">Unit I Concept of organic farming (5 hrs.)</a> Introduction: concept and development of organic farming.	1hr
16-09-2023	Principles of organic farming	1 hr
17-09-2022	need for organic farming	1hr
18-09-2022	Types of organic farming	1 hr
20-09-2022	Benefits of organic farming. Conventional farming v/s organic farming	1hr
21-09-2022	components required for organic farming	1 hr
24-09-2022	<a href="#">. Unit II. Organic plant nutrient management (5 hrs.)</a> Soil tillage, land preparation	1hr
26-09-2022	organic manures - mulching, green manuring	1 hr
27-09-2022	Application manures- and advantages	1hr
30-09-2022	Composting, Vermicomposting,	1 hr
1-10-2022	Organic Preparations- Organic {fertilizers- types, methods of	1hr
3-10-2022	<a href="#">Unit III. Organic plant protection (5 hrs.)</a> Plant protection- cultural, mechanical	1 hr
25-10-2022	botanical pesticides	1hr
26-10-2022	biopesticides,	1 hr
27-10-2022	biocontrol agents	1 hr
01-11-2022	Weed management	1hr
03-11-22	<a href="#">Unit IV: Organic crop production practices (5 hrs.)</a> Propagation-seed	1 hr
23-11-22	planting materials and seed treatments.	1hr
25-11-22	Organic crop production methods	1 hr
Total		20hrs

**Practical Timetable – topics**

Date	Topic covered	No of hrs.
19-09-2022	Introduction	1 hr
22-09-2022	Land preparation, tillage	1hr
28-09-2023	Nursery beds preparation	1 hr
09-10-2022	Sowing of seeds	1 hr
10-10-2022	Watering and manuring	1hr
11-10-2022	Preparation of Compost	1 hr
15-10-2022	Preparation of ghana jeevamrutam, drava jeevaamrutam	1hr
20-10-2022	Preparation of, drava jeevaamrutam	1 hr
28-11-2022	Preparation of gokrupamrutam	1 hr
29-11-2022	Preparation of botanical pesticides neemaastram	1hr
30-11-2022	Seed treatment	1hr

**GOVT COLLEGE FOR WOMEN (A), GUNTUR**

## DEPT OF BOTANY

**CERTIFICATE COURSE IN ORGANIC FARMING AND SUSTAINABLE AGRICULTURE**

2022-23

ROLL NO	Regd no	NAME OF THE STUDENT	Class	14/5	15/5	16/5	17/5	18/5	19/5	20/5	21/5	22/5	23/5	24/5	25/5	26/5	27/5	28/5	29/5	30/5	31/5	1/6	2/6	3/6	4/6	5/6	6/6	7/6	8/6	9/6	10/6	11/6	12/6	13/6	14/6	15/6	16/6	17/6	18/6	19/6	20/6	21/6	22/6	23/6	24/6	25/6	26/6	27/6	28/6	29/6	30/6	31/6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1	20409001	ANGADI SIRISHA	B3-B3a	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

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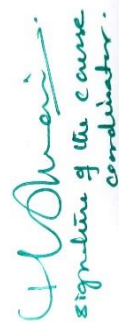


## PRACTICAL ATTENDANCE

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20	20409027	MADHUMALA HARICHANDANA	11/8/20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	19/10	= 29
21	20409028	MANDE KARUNA RAIVANT	11/8/20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	18/10	- 28
22	20409030	NAMALA GOPIKATULASI	11/8/20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20/10	- 30
23	20409031	NANDURI ASHA JYOTHI	11/8/20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20/10	- 30
24	20409032	PATNALAVATH LAKSHMI BAI	11/8/20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20/10	- 30
25	20409033	PATRA DHARANI	11/8/20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	17/07	- 24
26	20409034	RIKKA SUVARNA	11/8/20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20/10	- 30
27	20409035	SHAIK KARISHMA AHA	11/8/20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	19/09	- 28
28	20409036	SHAIK MOHAMMAD RUKSANA	11/8/20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20/10	- 30
29	20409037	SHAIK SHEMANAZ	11/8/20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	09/01	- 10
30	20409038	SHAIK VASEENA	11/8/20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20/10	- 30
31	20409039	VAKKALA MEGHANA	11/8/20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20/10	- 30
																				20/10	- 30





signature of the course  
 coordinator.



## Organic farming and sustainable Agriculture



Land preparation





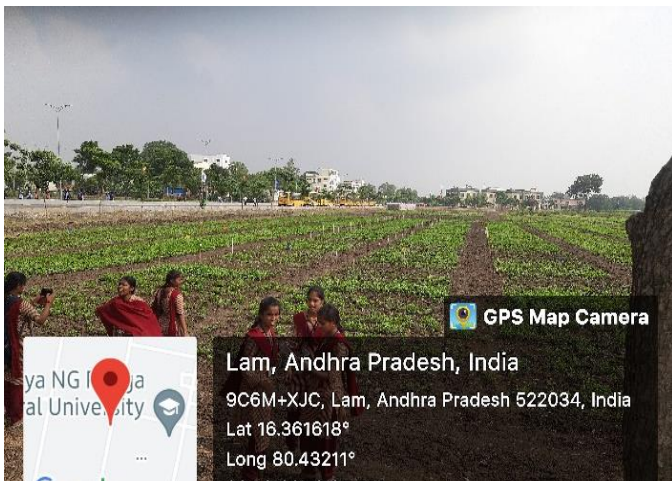
Learning Compost preparation gor organic farming



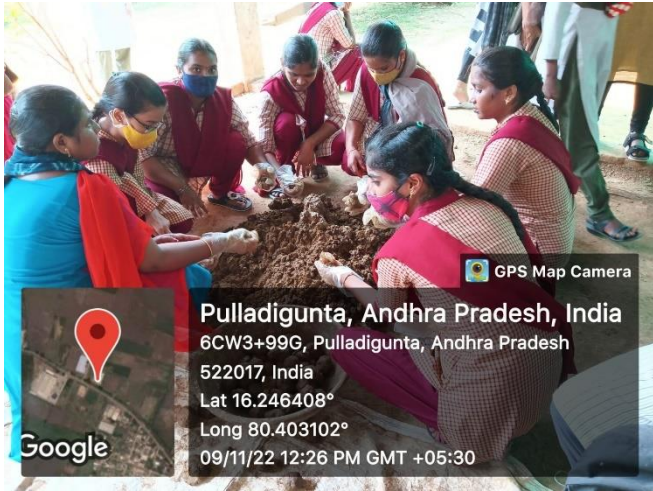




Practical work using organic preparations and growing vegetables







c) Soil microbes



b) Moisture d) all the above

11. Ready to use live formulates of beneficial microorganisms which on application to seed, root or soil mobilize the availability of nutrients are called

- a) bio pesticides      b) chemical fertilizers  
c) minerals      d) bio fertilizers

12. Good soil structure and water-holding capacity are contributed by

- a) organic matter      b) chemical fertilizer  
c) clay      d) Linie

13. Biofertilizer recommended for rice Crop is

- a) Rhizobium + Phosphate      c) Azotobacter + Phosphate  
b) Azospirillum + Phosphate      d) Frankia + Phosphate

14. What Is Vermi compost?

- a) organic manure produced by earthworms.      c) manure produced by chemicals  
b) manure produced by nematodes      d) compost without worms

15. Plants, Which Could Be Used as Green Manures are

- a) hibiscus      c). legume  
b) grasses      d) Amaranthus

16.-----is grown in winter. It requires rainfall during growing season and bright sunshine at the time of harvest.

- a) Rice      (c) Wheat  
b) Watermelon      (d) Bajra

17.The land on which crops are grown is known as

- a) Arable Land      c) Dry Land  
b) Wet Land      (d) None of these

18. The land is used for growing food and fodder crops and rearing livestock in

- a) Intensive Farming      (c) Primitive Farming  
b) Plantation Farming      (d) Mixed Farming

19. Yellowing of leaves indicates the deficiency of which nutrient

- a) Nitrogen      b) Phosphorus  
c) potassium      d) oxygen

20.which of the following influence the Crop Cultivation:

- (a) Temperature      c) Rainfall  
(b) Fertile Soil      d) All of these

21. Which government agency in India is responsible for implementing and regulating organic farming standards?

- a. FSSAI (Food Safety and Standards Authority of India)  
b. APEDA (Agricultural and Processed Food Products Export Development Authority)  
c. NABARD (National Bank for Agriculture and Rural Development)  
d. ICAR (Indian Council of Agricultural Research)

22. Which Indian state is a significant producer of organic spices and holds a prominent position in the organic farming sector?
- Kerala
  - Punjab
  - Maharashtra
  - Uttar Pradesh
3. The certification for organic farming in India is primarily based on the standards set by:
- Indian Organic Certification Agencies
  - ISO (International Organization for Standardization)
  - Codex Alimentarius
  - NPOP (National Programme for Organic Production)
24. In India, the use of which substance is strictly prohibited in organic farming?
- Biofertilizers
  - Chemical pesticides and synthetic fertilizers
  - Growth hormones
  - Neem-based pesticides
25. Which crop is one of the major organic exports from India?
- Wheat
  - Rice
  - Cotton
  - Basmati Rice
26. Which of the following is a traditional Indian farming practice that aligns closely with the principles of organic farming?
- Zero Budget Natural Farming (ZBNF)
  - Intensive Conventional Farming (ICF)
  - Industrial Agricultural Techniques (IAT)
  - Genetically Modified Farming (GMF)
27. The use of vermicompost in Indian organic farming is primarily aimed at improving:
- Soil structure
  - Crop yield
  - Water availability
  - Pest resistance
28. In India, the "Jaivik Bharat" logo is associated with:
- Organic farming certification
  - Pesticide promotion
  - Genetically modified crops
  - Hybrid seed production
29. Which state in India is known for being a major hub of organic farming and is often referred to as the "Organic State of India"?
- Sikkim
  - Haryana
  - Tamil Nadu
  - Gujarat
30. The cultivation of which crop is a prominent feature of organic farming in the state of Himachal Pradesh, India?
- Tea
  - Coffee
  - Mango
  - Sugarcane.

To  
The Controller of Examinations  
GCW(A), Guntur

Respected Madam,

Sub: Dept of Botany -Certificate course in– **organic farming and sustainable agriculture**  
Submission of Marks – Reg.

It is to bring to your kind notice that, Department of Botany has conducted certificate course on **organic farming and sustainable agriculture** from 14-09-2022 to 30-11-2022 for 30 hrs. for 2 credits. We are enclosing the list of 30 students who are qualified for the credits. We kindly request that you acknowledge and incorporate these credits into their respective marks memos. Your attention to this matter is greatly appreciated.

Thanking you Madam,

Yours Faithfully,


M. Santosh kumari  
Head, Department of Botany


DEPT. OF BOTANY  
GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR-522 001, A.P.

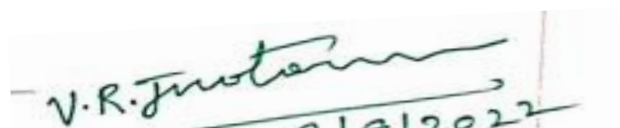
Signature of the principal 9/9/2022  
PRINCIPAL  
GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR.

GOVT.COLLEGE FOR WOMEN (A), GUNTUR								
DEPT.OF BOTANY								
CERTIFICATE COURSE IN ORGANIC FARMING AND SUSTAINABLE AGRICULTURE								
ASSESSMENT SEPT - DEC 2022								
SEM IV		LECTURER IN CHARGE: SMT. M.SANTOSH KUMARI						30 Hrs. 2 credits
Sl. No	Regd. No	Student Name	CLASS & GROUP	Attendance	THEORY MARKS	Practical/Field work	TOTAL	CREDITS
				30 Hrs.	30	20	50	2
1	20409001	ANGADI SIRISHA	II BSC BZC	29	30	15	45	2
2	20409002	AYITABATTULA MINNI BLESSY	II BSC BZC	29	24	12	36	2
3	20409004	BEJJAM NISSY	II BSC BZC	27	20	5	25	1
4	20409007	CHILAKA KEERTHI	II BSC BZC	26	22	12	34	2
5	20409008	DASARI MADHURI	II BSC BZC	26	20	5	25	1
6	20409009	DAVULURI SAHANASRI	II BSC BZC	26	6	5	25	1
7	20409010	DEVALLA BHARGAVI	II BSC BZC	28	22	10	32	2
8	20409013	GALLA MYDHILI RATHNA	II BSC BZC	26	20	6	26	1
9	20409015	GOLLA SHINY	II BSC BZC	30	16	18	34	2
10	20409016	GORREPATI HEPSIBA	II BSC BZC	30	17	5	22	1
11	20409017	GUDIMETLA ALEKHYA	II BSC BZC	30	19	20	39	2
12	20409018	IMMADI HEMALATHA	II BSC BZC	29	20	18	38	2
13	20409019	INUMUKKALA MARIYAMMA	II BSC BZC	29	20	18	38	2
14	20409020	JANDRAJUPALLI HAVILA	II BSC BZC	28	20	18	38	2
15	20409021	K AFSHA THAISEEN	II BSC BZC	28	24	18	42	2
16	20409022	KANDAGATLA LAKSHMI PUJITA	II BSC BZC	29	20	16	36	2
17	20409023	KANURU HARIKESWARI	II BSC BZC	30	30	20	50	2
18	20409025	KOTHAPALLI VENKATA SIRISHA	II BSC BZC	30	24	18	42	2
19	20409026	KUVVARAPU SUREKHA	II BSC BZC	28	25	20	45	2

20	20409027	MADDUMALA HARICHANDANA	II BSC BZC	29	28	20	48	2
21	20409028	MANDE KARUNA RAJYAM	II BSC BZC	28	20	15	35	2
22	20409030	NAMALA GOPIKATULASI	II BSC BZC	30	30	20	50	2
23	20409031	NANDURI ASHA JYOTHI	II BSC BZC	30	30	20	50	2
24	20409032	PATHALAVATH LAKSHMI BAI	II BSC BZC	24	22	5	27	1
25	20409033	PATRA DHARANI	II BSC BZC	30	28	20	48	2
26	20409034	RIKKA SUVARNA	II BSC BZC	28	24	18	42	2
27	20409035	SHAIK KARISHMA ARA	II BSC BZC	30	24	16	40	2
28	20409036	SHAIK MOHAMMAD RUKSANA	II BSC BZC	10	A	A	A	A
29	20409037	SHAIK SHEMANAZ	II BSC BZC	30	30	20	50	2
30	20409038	SHAIK VASEEMA	II BSC BZC	30	30	20	50	2
31	20409039	YAKKALA MEGHANA	II BSC BZC	30	30	20	50	2
No. Registered			31					
No. Completed			30					

  
signature of the course  
coordinator.

  
Head, Department of Botany  
DEPT. OF BOTANY  
GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR-522 001, A.P.

  
Signature of the principal  
9/9/2022  
PRINCIPAL  
GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR.



## Course completion certificate



**GOVERNMENT COLLEGE FOR WOMEN(A)  
GUNTUR, ANDHRA PRADESH**

**DEPARTMENT OF BOTANY**

**CERTIFICATE COURSE**


*This is to certify that Miss/Mrs. Golla Shiny of class II BZC has successfully completed a certificate course in **ORGANIC FARMING AND SUSTAINABLE AGRICULTURE** conducted by the Dept of Botany, Government College for women, Guntur from 14/09/2022 to 30/11/2022 and fulfilled all the prerequisites as per the UGC norms for the award of credits.*

*H. Sumanir*  
Course coordinator &  
In charge Dept of Botany

*V.R. Sumanir*  
PRINCIPAL  
GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR.  
PRINCIPAL

GOVERNMENT COLLEGE FOR WOMEN(A), GUNTUR  
**DEPARTMENT OF BOTANY**  
**Certificate course in” Organic farming and sustainable Agriculture”**  
**List of students who completed the course**

Sno	Regd.No	Name of the student	Class & Group
1	20409001	ANGADI SIRISHA	II BSC BZC
2	20409002	AYITABATTULA MINNI BLESSY	II BSC BZC
3	20409004	BEJJAM NISSY	II BSC BZC
4	20409007	CHILAKA KEERTHI	II BSC BZC
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6	20409009	DAVULURI SAHANASRI	II BSC BZC
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14	20409020	JANDRAJUPALLI HAVILA	II BSC BZC
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30	20409039	YAKKALA MEGHANA	II BSC BZC

  
 signature of the course  
 coordinator.

## Feedback Analysis:

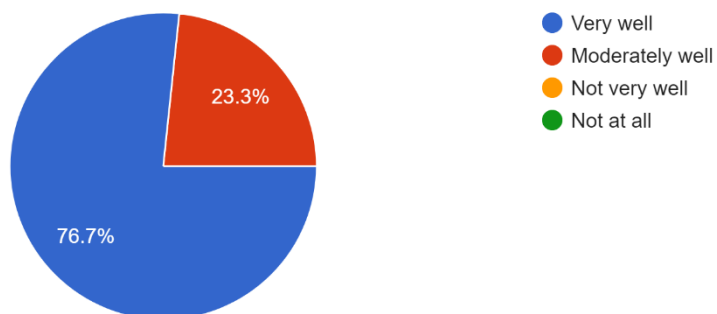
1.How well did the course help you understand the concept and significance of organic farming

30 responses



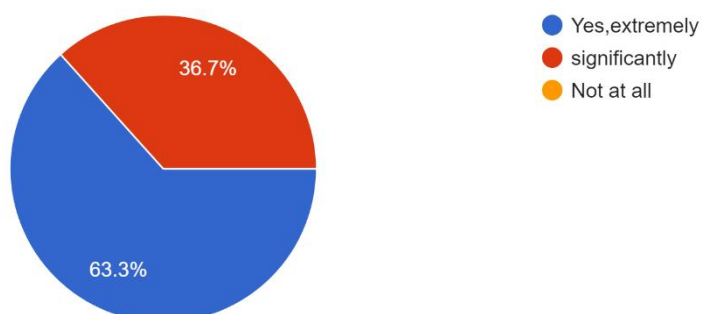
2.Did the course effectively address the obstacles and challenges faced in organic farming

30 responses



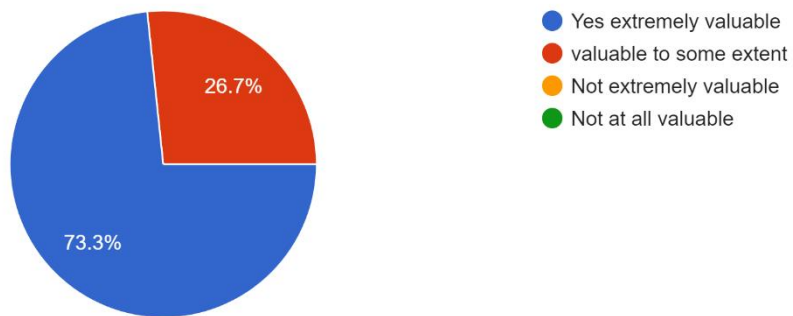
3.Were you able to develop skills in organic farming through the SWOT analysis of the course

30 responses



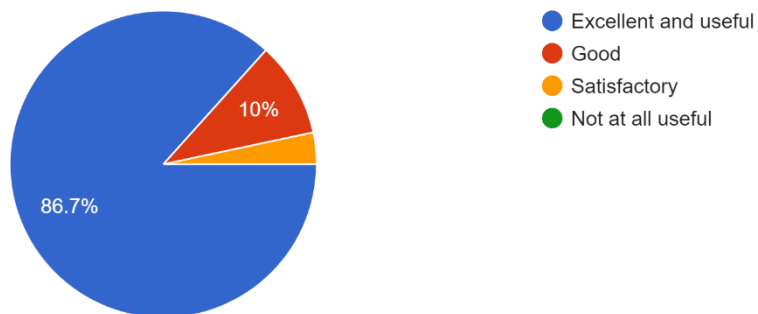
#### 4. Did practical sessions provide you with valuable hands on experience

30 responses



#### 5. How was ur hands on experience at Rythunestham foundation

30 responses



#### 6. Overall how would you rate the organic farming course in terms of practical relevance to real world

30 responses

