

**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
GUNTUR**



DEPARTMENT OF MICROBIOLOGY

A CERTIFICATE COURSE IN ORGANIC FARMING

From 22-01-2019 to 28-02-2019

(2018 to 19)



About the certificate course: The course focuses on providing knowledge and training to students and empowering them with the right knowledge to make their own organic manure and biofertilizers.

OUTCOMES OF CERTIFICATE COURSE: At the end of the course the student will

- To provide basic information about Organic farming.
- To gain practical knowledge about organic manure making.
- To familiarise the use of insecticides and pesticides.

The course is designed and developed by the course coordinator and the following faculty taught the course

Dr. N. Praveena kumara

Dr. K.Sucharita

Smt. Himabindhu

Course Details:

- Number of Participants: 55
- Duration of the course: 30 hours

Criteria of Assessment

- Summative: At the end of the course.

Number of Credits: 2

Eligibility Criteria to get the certificate

- 75 % attendance
- Attending both Formative and Summative Assessment.
- Securing minimum of 40% marks.

Timings: 4 PM TO 5 PM

Venue: Microbiology Lab, Government Women's college, Guntur.

Course starting date: 22-01-2019

Course ending date: 28-02-2019

GOVERNMENT COLLEGE FOR WOMEN (A), GUNTUR

DEPARTMENT OF MICROBIOLOGY

**A CERTIFICATE COURSE
IN
ORGANIC FARMING**

2018-2019

From 22-01-2019 to 28-02-2019

CIRCULAR

A certificate course in Organic Farming will be held from 22-01-2019 to 28-02-2019 for I, II & III year students. The duration of the course is 30 hours. The course will help in developing methods of Organic farming involving practical sessions and with an emphasis on environmental health benefits of organic agriculture.



Course Coordinator



**PRINCIPAL
GOVT. COLLEGE FOR WOMEN (A)
GUNTUR.**

ORGANIC FARMING
(Certificate course 30 hrs.)
SYLLABUS

Objectives of the Course:

- To provide basic information about organic farming.
- To gain practical knowledge about organic manure making.
- To familiarize the use of bioinsecticides and pesticide.

UNIT I: Basics principles of organic farming. What is organic farming .Modern agriculture and organic farming. Ecology and organic farming. Biodynamic farming. Zero budget farming. Compost.

UNIT II: Importance of soil. What is soil Organic farming. Soil conservation. Soil classification. Plant stands establishment and nutrient management .Manures of animal and plant origin. Fermented bio slurries. Organic manure making. Bio fertilizers. Composts. Organic manure making.

Unit III: Pest and disease management in Organic farming. Approaches to pest and disease management. Natural insecticides and botanicals. Microbial insecticide. Bio fungicides.

Suggested Readings

1.https://agriculture.ec.europa.eu/farming/organic-farming/organic-production-and-products/organics-references_en

2. <https://academic.oup.com/fqs/article/4/2/69/5861338>

3.https://www.researchgate.net/publication/272621440_Organic_Farming_The_Return_to_Nature

4.https://rvskvv.net/images/Organic-Manures_20.04.2020.pdf

5.https://bu.edu.eg/portal/uploads/Agriculture/Soils%20and%20water/1179/crs-15144/Files/Organic_Manure.pdfwww.eeca.govt.nz

CERTIFICATE COURSE IN ORGANIC FARMING

Introduction: The Certificate Course on Organic Farming was conducted over a span of 30 hours with the aim of providing participants with comprehensive knowledge and practical skills in organic farming practices. The course was designed to address the increasing demand for sustainable agricultural methods and to equip individuals with the expertise needed to transition to or establish organic farming enterprises.

Aim:

- To familiarize participants with the principles and practices of organic farming.
- To equip participants with practical skills necessary for implementing organic farming methods.
- To raise awareness about the environmental and health benefits of organic agriculture.

Objectives:

To provide basic information about organic farming.

To gain practical knowledge about organic manure making.

To familiarize the use of insecticides and pesticide.

Procedure:

The course was conducted through a combination of lectures, group discussions. Participants were provided with course materials, resources, and access to relevant literature to support their learning. Assessment methods included assignments, and a final exam where participants had to develop an organic farming plan for a hypothetical farm.

Outcomes:

Participants gained a solid understanding of organic farming principles and techniques.

Enhanced skills in soil management, crop production, and pest control using organic methods.

Increased awareness of organic certification processes and regulatory frameworks.

Government College For Women (A), Guntur

Department Of Microbiology

Certificate Course On Organic Farming

STUDENTS ENROLLMENT LIST

| S.No | Name of the student | Course |
|-------------|----------------------------|---------------|
| 1. | G.ANURADHA | MZC |
| 2. | P.BHARGAVI | MZC |
| 3. | G.GAYATHRI | MZC |
| 4. | V.GLORY | MZC |
| 5. | N.HEMA PRIYANKA | MZC |
| 6. | JOSHINA | MZC |
| 7. | M.MEGHANA | MZC |
| 8. | CH.NIKITHA | MZC |
| 9. | M.NAGAVENI | MZC |
| 10. | G.PAVANI | MZC |
| 11. | M.PUSHPALATHA | MZC |
| 12. | G.PRASHANTHI | MZC |
| 13. | K.REVARHI | MZC |
| 14. | SK.RUKHIYYA | MZC |
| 15. | A.SUSHMA | MZC |
| 16. | B.SAILAJA BAI | MZC |
| 17. | G.SAMYUKTHA | MZC |
| 18. | Y.SHRUTHI | MZC |
| 19. | Y.SISRISHA | MZC |
| 20. | J.SMILY SUSHRITHA | MZC |
| 21. | E.BHAVANI | MZC |
| 22. | B.SRI CHANDANA | MZC |
| 23. | V.VENKATA KRISHNA | MZC |
| 24. | P.KEERTHI | MZC |
| 25. | D.LAVANYA | MZC |
| 26. | R.PARVATHI | MZC |
| 27. | P.SRAVANI | MZC |
| 28. | Y.SWAPNA | MZC |
| 29. | V.SWAPNA | MZC |
| 30. | M.SOWMYA | MBC |
| 31. | S.RANI | MBC |
| 32. | J.DEVAMMA | MBC |
| 33. | Y.RACHEL | MBC |
| 34. | P.DIVYA | MBC |
| 35. | Ch.Therisa | MBC |
| 36. | V.GAYATHRI POOJITHA | MBC |
| 37. | V.KRISHNA VENI | MBC |
| 38. | S.SRUTHI | MBC |

| S.No | Name of the student | Course |
|-------------|----------------------------|---------------|
| 39. | B.ROJA RANI | <i>MBC</i> |
| 40. | K.SUKANYA | <i>MBC</i> |
| 41. | D.BHAVANI BAI | <i>MBC</i> |
| 42. | R.KAVITHA | <i>MBC</i> |
| 43. | R.DURGA BAI | <i>MBC</i> |
| 44. | K.BHARATHI | <i>MBC</i> |
| 45. | K.KEERTHANA | <i>MBC</i> |
| 46. | S.SHOBHANA | <i>MBC</i> |
| 47. | P.SOMA DHANUM | <i>MBC</i> |
| 48. | CH.VIJAYA KUMARI | <i>MBC</i> |
| 49. | G.SAMPOORNA | <i>MBC</i> |
| 50. | N.BHARGAVI | <i>MBC</i> |
| 51 | M.SRI LAKSHMI | <i>MBC</i> |
| 52. | D.ANUHYA | <i>MBC</i> |
| 53. | SK.FARIDHA BHANU | <i>MBC</i> |
| 54. | B.NAGAMANI | <i>MBC</i> |
| 55. | P.PRASANNA | <i>MBC</i> |

Government College For Women (A), Guntur
Department Of Microbiology
Certificate Course On Organic Farming
AWARD LIST

| S.No | Name of the student | | Marks(50) | Attendance 30 days |
|------|---------------------|-----|-----------|--------------------|
| 1. | G.ANURADHA | MZC | 46 | 26 |
| 2. | P.BHARGAVI | MZC | 44 | 23 |
| 3. | G.GAYATHRI | MZC | 40 | 27 |
| 4. | V.GLORY | MZC | 40 | 25 |
| 5. | N.HEMA PRIYANKA | MZC | 38 | 21 |
| 6. | JOSHINA | MZC | 38 | 28 |
| 7. | M.MEGHANA | MZC | 38 | 25 |
| 8. | CH.NIKITHA | MZC | 36 | 23 |
| 9. | M.NAGAVENI | MZC | 40 | 24 |
| 10. | G.PAVANI | MZC | 40 | 27 |
| 11. | M.PUSHPALATHA | MZC | 40 | 21 |
| 12. | G.PRASHANTHI | MZC | 38 | 26 |
| 13. | K.REVARHI | MZC | 42 | 29 |
| 14. | SK.RUKHIYYA | MZC | 44 | 22 |
| 15. | A.SUSHMA | MZC | 40 | 24 |
| 16. | B.SAILAJA BAI | MZC | 40 | 27 |
| 17. | G.SAMYUKTHA | MZC | 40 | 20 |
| 18. | Y.SHRUTHI | MZC | 38 | 23 |
| 19. | Y.SISRISHA | MZC | 36 | 26 |
| 20. | J.SMILY SUSHRITHA | MZC | 38 | 23 |
| 21. | E.BHAVANI | MZC | 42 | 21 |
| 22. | B.SRI CHANDANA | MZC | 36 | 22 |
| 23. | V.VENKATA KRISHNA | MZC | 38 | 24 |
| 24. | P.KEERTHI | MZC | 38 | 26 |
| 25. | D.LAVANYA | MZC | 42 | 21 |
| 26. | R.PARVATHI | MZC | 40 | 20 |
| 27. | P.SRAVANI | MZC | 40 | 23 |
| 28. | Y.SWAPNA | MZC | 46 | 21 |
| 29. | V.SWAPNA | MZC | 40 | 22 |
| 30. | M.SOWMYA | MBC | 40 | 26 |
| 31. | S.RANI | MBC | 39 | 20 |
| 32. | J.DEVAMMA | MBC | 42 | 24 |
| 33. | Y.RACHEL | MBC | 40 | 23 |
| 34. | P.DIVYA | MBC | 38 | 27 |
| 35. | Ch.Therisa | MBC | 45 | 22 |
| 36. | V.GAYATHRI POOJITHA | MBC | 39 | 26 |
| 37. | V.KRISHNA VENI | MBC | 43 | 21 |
| 38. | S.SRUTHI | MBC | 40 | 25 |
| 39. | B.ROJA RANI | MBC | 37 | 21 |
| 40. | K.SUKANYA | MBC | 42 | 22 |
| 41. | D.BHAVANI BAI | MBC | 44 | 24 |
| 42. | R.KAVITHA | MBC | 38 | 21 |
| 43. | R.DURGA BAI | MBC | 36 | 20 |
| 44. | K.BHARATHI | MBC | 44 | 26 |
| 45. | K.KEERTHANA | MBC | 47 | 27 |

| | | | | |
|-----|------------------|------------|----|----|
| 46. | S.SHOBHANA | <i>MBC</i> | 39 | 24 |
| 47. | P.SOMA DHANUM | <i>MBC</i> | 44 | 23 |
| 48. | CH.VIJAYA KUMARI | <i>MBC</i> | 47 | 21 |
| 49. | G.SAMPOORNA | <i>MBC</i> | 41 | 20 |
| 50. | N.BHARGAVI | <i>MBC</i> | 39 | 21 |
| 51 | M.SRI LAKSHMI | <i>MBC</i> | 42 | 22 |
| 52. | D.ANUHYA | <i>MBC</i> | 45 | 25 |
| 53. | SK.FARIDHA BHANU | <i>MBC</i> | 36 | 20 |
| 54. | B.NAGAMANI | <i>MBC</i> | 43 | 27 |
| 55. | P.PRASANNA | <i>MBC</i> | 46 | 23 |

Inauguration of certificate course



Valedictory function-presenting certificates



Field Trip to Pulladigunta Rythunestham





GOVERNMENT COLLEGE FOR WOMEN (A)

GUNTUR, ANDHRA PRADESH

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE COURSE

This is to certify that Ms V.GAYATHRI POOJITHA of II B.Sc. Botany Microbiology Chemistry has successfully completed a Certificate course in ORGANIC FARMING conducted by the Department of Microbiology from 22-01-2019 to 28-02-2019 and fulfilled all prerequisites as per UGC norms, for award of credits.

Course Coordinator

Principal

Certificate course-2018-19

Examination on Organic farming

I. Answer all the questions

25x2=50M

1. What is the primary principle behind organic farming?
2. Define organic farming in one sentence.
3. Name one key aspect of organic farming that distinguishes it from conventional farming.
4. What are the basic practices of organic farming?
5. Explain the significance of soil health in organic farming.
6. What role do cover crops play in organic farming?
7. How does organic farming contribute to biodiversity conservation?
8. Name a natural method used in organic farming to control pests.
9. How does organic farming reduce environmental pollution compared to conventional farming?
10. Define composting and its importance in organic farming.
11. What is crop rotation, and why is it essential in organic farming?
12. Explain the concept of integrated pest management (IPM) in organic farming.
13. How does organic farming contribute to the reduction of greenhouse gas emissions?
14. What are the regulations governing organic farming practices?
15. Name one disadvantage of relying solely on organic farming methods.
16. How does organic farming promote healthier food consumption?
17. What is the role of organic certification in ensuring the integrity of organic products?
18. Explain the term "biodynamic farming" and its relationship with organic farming.
19. How does organic farming enhance soil fertility?
20. Name one common weed control method used in organic farming.
21. What are the benefits of using organic fertilizers over synthetic ones?
22. How does organic farming support sustainable agriculture?
23. Define "organic residue" in the context of organic farming.
24. Explain how organic farming aligns with principles of agroecology.
25. What are the economic benefits associated with organic farming practices?

ATTENDANCE

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