



GOVERNMENT DEGREE COLLEGE, LUXETTIPET
CERTIFICATE COURSE
ORGANIC MANURES



DEPARTMENT OF BOTANY
ACADEMIC YEAR 2017-18

GOVERNMENT DEGREE COLLEGE, LUXETTIPET

PERMISSION LETTER
CERTIFICATE COURSE

Date : 22.08.2017

To
The Principal
Government Degree College
Luxettipet

Sub : Grant of permission for conducting certificate course on Organic manures for the academic year 2017-18 by Department of Botany, req-reg.

As per the subject cited above, the Department of Botany intended to conduct a certificate course on Organic manures from 8.09.2017 with a duration of 30hrs. This certificate course is a part of experiential learning which may develop skills and enhance the knowledge which can be applied for improving agricultural practices. Hence I request you to grant me permission in this regard.

Thanking You

Permitted
Alvin
22/8/17
Principal
Govt. Degree College
Luxettipet - 504 214

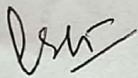
Yours Sincerely

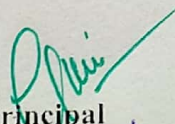
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Department of Botany

**GOVERNMENT DEGREE COLLEGE, LUXETTIPET
NOTICE**

Date: 29.08.2017

All the students of B.Sc B.Z.C I, II AND III Yr are informed that, Department of Botany is going to conduct certificate course on Organic Manures with a duration of 30hrs. Interested candidates may enroll their names on or within 5.09.2017. The start date of certificate course is 8.09.2017


Department of Botany


Principal
Principal
Govt. Degree College
Luxettipet - 504 214

GOVERNMENT DEGREE COLLEGE, LUXETTIPET
SYLLABUS
CERTIFICATE COURSE ON ORGANIC MANURES
DEPARTMENT OF BOTANY

Duration: 30hrs

Contents

1. Introduction	1hr
2. Effect of inorganic fertilizers and manures on soil and plants	1hr
3. Advantages of Organic manures, Major organic sources and transformations	2hr
4. Chemical nature of organic compound and its decomposition	2hr
5. Humification and residual effect	1hr
6. Green Manures, advantages of green manures, plants used as green manures	2hr
7. Compost, requirements of composting, microbiology of composting, factors influencing the composting process, composting procedure, farmyard manure, composting of urban sewage, refuse and sludge	3hr
8. Vermicomposting, procedure, benefits of earthworms vermicomposting procedure and advantages of vermicomposting	3hr
9. Composting of industrial waste and other organic residues, leaf Compost	3hr
10. Standards and inputs used in organic agriculture, advantages of organic farming.	3hr
11. Practical on Organic manure preparation (field visit)	5hr

Approved by
[Signature]
Dr. V. Chalcrapani
Botany Dept.

GOVERNMENT DEGREE COLLEGE, LUXETTIPET
CERTIFICATE COURSE
ORGANIC MANURES
DEPARTMENT OF BOTANY

OBJECTIVES OF THE COURSE

This is a certificate course on Organic manures. As it is based on applicative methods and involved with practical knowledge, the outcomes of the course will be very useful in switching from inorganic mode of farming to Organic farming. As today there is a need to reduce chemical fertilizers in farming, as use of chemical fertilizers is responsible for side effects, knowledge to make organic manures is needed at the time. The main objective of the course is to impart knowledge on preparation of organic manures, which in turn can be applied in agricultural practices for better results and also can generate self employment.

OUTCOMES OF THE COURSE

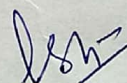
- Knowledge on organic ways of farming
- Applicative Knowledge on using different organic manures for improving the crops.
- Develop skills in farming.

ATTAINMENT OF COURSE OUTCOMES

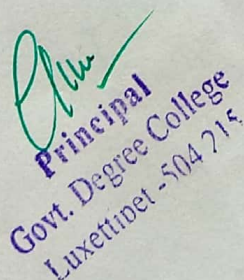
After the completion of course an exam on objective type questions with 25 marks is conducted. Students scoring 40% and above will be given certificates and grades are mentioned for merit students.

Grading for the Course

Theory + Practical	-----	90-100%	-----	A+Grade
Theory + Practical	-----	80-90%	-----	A Grade
Theory + Practical	-----	70-80%	-----	B Grade
Theory + Practical	-----	60-70%	-----	C Grade
Theory + Practical	-----	50-60%	-----	D Grade
Theory + Practical	-----	40-50%	-----	E Grade



Department of Botany

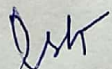


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GOVERNMENT DEGREE COLLEGE, LUXETTIPET
STUDENTS REGISTRATION
CERTIFICATE COURSE
DEPARTMENT OF BOTANY

Sl.No	Name of the student	Roll Number	Course and Year	Signature of the students
1.	M.Rajitha	3001	B.Sc B.Z.C IYr	M. Rajitha
2.	P.SravyaSri	3002	B.Sc B.Z.C IYr	P. Sravya Sri
3.	M.Sandhya	3003	B.Sc B.Z.C IYr	M. Sandhya
4.	U.Sandhya	3004	B.Sc B.Z.C IYr	U. Sandhya
5.	E.Mounika	3005	B.Sc B.Z.C IYr	E. Mounika
6.	P.Rakesh	3006	B.Sc B.Z.C IYr	P. Rakesh
7.	M.Anusha	3007	B.Sc B.Z.C IYr	M. Anusha
8.	M.Varalaxmi	3008	B.Sc B.Z.C IYr	M. Varalaxmi
9.	R.Umamaheshwari	3009	B.Sc B.Z.C IYr	R. Umamaheshwari
10.	D.Madhukar	3010	B.Sc B.Z.C IYr	D. Madhukar
11.	G.Ganesh	3011	B.Sc B.Z.C IYr	G. Ganesh
12.	A.Srilatha	3012	B.Sc B.Z.C IYr	A. Srilatha
13.	P.Venkatesh	3013	B.Sc B.Z.C IYr	P. Venkatesh
14.	A.Prashanth	3014	B.Sc B.Z.C IYr	A. Prashanth
15.	K.Praveena	3015	B.Sc B.Z.C IYr	K. Praveena


Principal
Govt. Degree College
Luxettipet - 504 214


Department of Botany

**GOVERNMENT DEGREE COLLEGE, LUXETTIPET
CERTIFICATE COURSE ON ORGANIC MANURES**



**VISIT TO HAJIPUR FARMHOUSE TO KNOW ABOUT ORGANIC FARMING AND
PREPARATION OF ORGANIC MANURE**

GOVERNMENT DEGREE COLLEGE, LUXETTIPET
CERTIFICATE COURSE
ORGANIC MANURES
EXAMINATION

23
25

Date: 9.11.2017

Roll No: 3003

Duration: 1hr
Total Marks: 25
10 × 2

Choose the correct answers

1. In NPK, P stands for

- a. Phosphorus b. Potassium
c. Palladium d. Plumbum

[b]

2. Use of earthworms in manure preparation is called

- a. green composting b. dry composting
c. Vermicomposting. d. Worm composting

[c]

3. This family plants are used mostly for green manure

- a. Fabaceae b. Malvaceae
d. Rutaceae c. Apiaceae

[a]

4. Decomposition of organic material forming a brown substance is called

- a. Humification b. Desertification
c. Purification d. Nitrification

[c]

5. Use of green plant tissue as manure is called

- a. Plant manure b. Green manure
c. Brown manure d. Black manure

[b]

6. This machine helps in mixing of manure and provides oxygen to the manure

- a. Oximeter b. Areometer
c. Aero tiller d. Oxygenometer

[c]

7. Phosphate mobilizing microorganism

- a. Fraturia ausintia b. E. coli
c. Yeast d. Spirogyra

[a]

8. Nitrogen fixing microorganism

- a. Rhizobium b. Streptomyces
c. Diplococcus d. Rhodospirillum

[a]

9. During organic manure preparation, compost must be cured for

- a. 15 days
- b. 20 days
- c. 25 days
- d. 10 days

[d] ✓

10. The process through which compost or waste material is transformed to manure

- a. Composting
- b. Dumping
- c. Pitting
- d. Burning

[a] ✓

11. Write the types of manures in your own words.

5 Marks

Ans They are two types of manures.

They are

① Inorganic manures:

Made of chemicals.

② Organic manures.

made of organic substances and include

① Green manure

② Vermi compost

③ Cowdung manure.

GOVERNMENT DEGREE COLLEGE, LUXETTIPET
CERTIFICATE COURSE
ORGANIC MANURES
EXAMINATION

24
25

Duration: 1hr
Total Marks: 25
10 × 2

Date : 9.11.2017

Roll No : 3007

Choose the correct answers

1. In NPK, P stands for

- a. Phosphorus b. Potassium
c. Palladium d. Plumbum

[b] ✓

2. Use of earthworms in manure preparation is called

- a. green composting b. dry composting
c. Vermicomposting. d. Worm composting

[c] ✓

3. This family plants are used mostly for green manure

- a. Fabaceae b. Malvaceae
d. Rutaceae e. Apiaceae

[a] ✓

4. Decomposition of organic material forming a brown substance is called

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[c] ✓

5. Use of green plant tissue as manure is called

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[b] ✓

6. This machine helps in mixing of manure and provides oxygen to the manure

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[c] ✓

7. Phosphate mobilizing microorganism

- a. Fraturia ausintia b. E. coli
c. Yeast d. Spirogyra

[a] ✓

8. Nitrogen fixing microorganism

- a. Rhizobium b. Streptomyces
c. Diplococcus d. Rhodospirillum

[a] ✓

9. During organic manure preparation, compost must be cured for

- a. 15 days
- b. 20 days
- c. 25 days
- d. 10 days

[d] ✓

10. The process through which compost or waste material is transformed to manure

- a. Composting
- b. Dumping
- c. Pitting
- d. Burning

[a] ✓

11. Write the types of manures in your own words.

5 Marks

Ans Manures are of two types

- 1) Organic manures
- 2) Inorganic manures.

① Organic manures

Made of organic substances. Types are

- ① Green manures
- ② Cowdung manures
- ③ Vermi compost
- ④ Sewage manures

② Inorganic manures are manures made of chemicals. They are

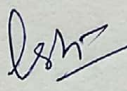
- ① Urea
- ② Phosphate

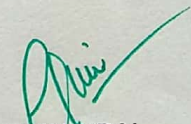
GOVERNMENT DEGREE COLLEGE, LUXETTIPET
FEEDBACK REPORT

Date:

Name of the student	M. Sandhya
Course and Academic year	B.Sc B.Z.C Iyr
Name of the programme	Certificate Course On Organic manures
Questionnaire for the programme	
1. Are you satisfied by the programme	yes
2. What did you learn from the Programme	About types of organic manures and importance of organic manures
3. Is it useful to improve your skills	Yes
4. Can you apply this in generating self employment	yes
4. Any suggestions by you regarding the programme	-nil-

M. Sandhya
SIGNATURE
OF THE STUDENT


PROGRAMME COORDINATOR


PRINCIPAL
Principal
Govt. Degree College
Luxettipet - 504 216

GOVERNMENT DEGREE COLLEGE, LUXETTIPET
FEEDBACK REPORT

Date:

Name of the student	A. Sailatha
Course and Academic year	B.Sc B.Z.C IYs
Name of the programme	Certificate course on Organic manures
Questionnaire for the programme	
1. Are you satisfied by the programme	yes
2. What did you learn from the Programme	gained knowledge on the importance of organic manures
3. Is it useful to improve your skills	yes
4. Can you apply this in generating self employment	yes
4. Any suggestions by you regarding the programme	- Nil -

A. Sailatha

SIGNATURE
OF THE STUDENT

lsb

PROGRAMME COORDINATOR

Principal

Principal
Govt. Degree College
Luxettipet - 504 215




GOVERNMENT DEGREE COLLEGE, LUXETTIPET
CERTIFICATE

Certificate course on organic manures

This is to certify that M. Anusha
Of B.Sc B.Z.C Iya has completed her/his certificate course in "Organic Manures" for
the academic year 2017-18. She/He has secured A+ grade in the course.


DEPARTMENT


RESOURCE PERSON


PRINCIPAL
Principal
Govt. Degree College
Luxettipet - 504 215

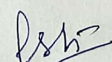


GOVERNMENT DEGREE COLLEGE, LUXETTIPET
CERTIFICATE

Certificate course on organic manures

This is to certify that P. Sravyasri
Of B.Sc B.Z.C Iya has completed her/his certificate course in "Organic Manures" for
the academic year 2017-18. She/He has secured A+ grade in the course.


DEPARTMENT


RESOURCE PERSON


PRINCIPAL
Principal
Govt. Degree College
Luxettipet - 504 215

GOVERNMENT DEGREE COLLEGE, LUXETTIPET
SUMMARY REPORT
CERTIFICATE COURSE ON ORGANIC MANURES
DEPARTMENT OF BOTANY

OBJECTIVE OF THE COURSE: To develop knowledge and skills in preparation of organic manures and its usage for improving the crop production .

STUDENTS ENROLLMENT


15 students have enrolled into the course

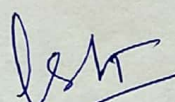
STUDENTS PROGRESS

With the above main objective this certificate course was started with a duration period of 30hrs. 15 students have enrolled into this course and successfully completed the course along with field visit. Students have undergone an objective type exam with 25marks. All the 15 students have taken their examination and passed the examination. Grades are given to the students according to the marks they secured.

OUTCOMES OF THE COURSE

Students have developed knowledge about organic manures, their benefits and their eco friendly properties . This knowledge can be used in an applicative manner for getting chemical free products.


Principal
Govt. Degree College
Luxettipet -504 214


Department of Botany