

**SGT UNIVERSITY (GURUGRAM)**  
**FACULTY OF AGRICULTURAL SCIENCES**

**Certificate course in Waste recycling by Vermi-composting**

**Aims & Objective:**

1.	The Students learn waste management process and its environmental and economical benefits.
2.	The interested students will get to know process of composting of waste.
3.	The course will generate employment and entrepreneurs.
4.	Organic farming will be encouraged
5.	It will help to maintain the environment pollution free and
6.	Will get the knowledge of biodiversity of local earthworms

**Eligibility of Course:**

1.	Undergraduate & Postgraduate students of Agriculture and allied disciplines
2.	Faculty Members of State Agriculture Universities & Agriculture Based NGOs
3.	Progressive Farmers

**Certificates:**

Qualifying students will be given certificates based on their involvement and performance. Participation certificate and Competency certificate will be issued by the FASC, SGT University, Gurugram, NCR-Delhi, India

**Duration of course:** 3 weeks (18 contact hours)

**Course structure:**

<b>Paper I</b>	Theory
<b>Paper II</b>	Practical

**Level:** Certificate

**Stream:** Agriculture /any other stream

**Subject:** Vermiculture/ vermicompost

**Attendance:** 85%

**Lecture/practical timing:** As per time table issued by the FASC.

**Skeleton of the course:**

S. No.	Paper	Teaching hours	Maximum marks allotted			Passing marks (%)		
			External	Internal	Total	External	Internal	Overall
1	Theory (Paper I)	6	50	50	100	40	40	50
2	Practical (Paper II)	12	50	50	100	40	40	50

<b>Course Coordinator</b> Dr. Rohit Kumar, Asstt. Prof. (Agronomy) Faculty of Agricultural Sciences SGT University, Gurugram	<b>Dean (FASC)</b> Prof. (Dr.) Ashok Kumar
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Budhera, Gurugram



## Syllabus

### Paper I- Theory

(6- Contact hours)

#### Unit-1

1.1	Vermicomposting : Introduction and Scope
1.2	Types of Earthworm and Classification
1.3	Life history of Earthworms (Earthworm Species <i>Eisenia foetida</i> )

#### Unit-2

2.1	Objectives of Vermicompost
2.2	Vermicompost Production : Establishment of Vermicomposting and Vermiwash unit
2.3	Different Methods of Vermicomposting: Small and large scale Bed method, Pit method
2.4	Harvesting the Compost
2.5	Storing and packing of vermicompost

#### Unit-3

3.1	Precautions while Vermicomposting
3.2	Physical Parameters of vermicompost
3.3	Nutrient content of vermicompost and their role in agriculture
3.4	Benefits of vermicompost

### Paper II- Practical

(12-Contact hours)

1.	Establishment of vermicomposting unit Pit method
2.	Establishment of vermicomposting unit Bed method
3.	Establishment of vermiwash unit
4.	Vermicompost production, harvesting and packaging.
5.	Study the effects of vermicompost & vermiwash on any two short duration crop plants

#### Course outcomes:

1.	Students can construct their own compost farm & thereby can generate income.
2.	Students/ farmers by using vermicompost in their field can increase the crop yield.
3.	Students residing in cities can produce vermicompost in small scale for garden/household plants.
4.	They can get the jobs in educational institutes as vermicompost/vermiculture technician.
5.	By developing & propagating vermicompost technology he/she will directly or indirectly help to make environmental pollution free, by using vermicompost in the field & thereby increasing crop yield will help to solve food problems.
6.	It will lead towards organic farming & healthy food.

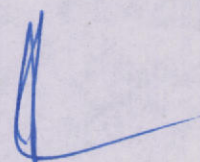
#### References

- The Textbook of Vermicompost, Vermiwash and Biopesticides : Keshav singh and et al  
Publisher: Biotech Books
- The Book Hand Book Of Biofertilizers & Vermiculture, Publisher: Engineers India Research Institute
- Handbook of Organic Farming and Organic Foods With Vermicomposting Neem Publisher: Engineers India Research Institute

  
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SGT UNIVERSITY (GURUGRAM NCR)				
FACULTY OF AGRICULTURAL SCIENCES				
Course Title: Vermicomposting				
Faculty: Dr. Rohit Kumar, Asstt. Prof.				
Session 2020-21 (2nd Sem.)				
S.No.	Name	Registration No.	Year/ Sem	Certificate No.
1	Tapasiya Sarmin	171101006	B.Sc. (Hons.) Ag 4 <sup>th</sup> year	2826
2	Ankit	171101009	B.Sc. (Hons.) Ag 4 <sup>th</sup> year	2827
3	Madhu Sangwan	171101016	B.Sc. (Hons.) Ag 4 <sup>th</sup> year	2828
4	S. Menaka	171101024	B.Sc. (Hons.) Ag 4 <sup>th</sup> year	2829
5	Naveen Sharma	171101025	B.Sc. (Hons.) Ag 4 <sup>th</sup> year	2830
6	Rohan Kumar Singh	171101027	B.Sc. (Hons.) Ag 4 <sup>th</sup> year	2831
7	Tej Singh	171101034	B.Sc. (Hons.) Ag 4 <sup>th</sup> year	2832



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SGT University,  
Budhera, Gurugram

# Certificate of Completion

This certificate is awarded to

**Tapasiya Sarmin**

*(Enrolment No. 171101006)*

for successful completion of short term course on

**Vermicomposting**

*Certificate issued on 28th June 2021*

*(computer generated record does not need a signature)*





# Certificate of Completion

This certificate is awarded to

**Ankit**

*(Enrolment No. 171101009)*

for successful completion of short term course on

**Vermicomposting**

*Certificate issued on 28th June 2021*

*(computer generated record does not need a signature)*



# Certificate of Completion

This certificate is awarded to

**Madhu Sangwan**

*(Enrolment No. 171101016)*

for successful completion of short term course on

**Vermicomposting**

*Certificate issued on 28th June 2021*

*(computer generated record does not need a signature)*



# Certificate of Completion

This certificate is awarded to

**S. Menaka**

*(Enrolment No. 171101024)*

for successful completion of short term course on

**Vermicomposting**

*Certificate issued on 28th June 2021*

*(computer generated record does not need a signature)*



# Certificate of Completion

This certificate is awarded to

**Naveen Sharma**

*(Enrolment No. 171101025)*

for successful completion of short term course on

**Vermicomposting**

*Certificate issued on 28th June 2021*

*(computer generated record does not need a signature)*





# Certificate of Completion

This certificate is awarded to

**Rohan Kumar Singh**

*(Enrolment No. 171101027)*

for successful completion of short term course on

**Vermicomposting**

*Certificate issued on 28th June 2021*

*(computer generated record does not need a signature)*



# Certificate of Completion

This certificate is awarded to

**Tej Singh**

*(Enrolment No. 171101034)*

for successful completion of short term course on

**Vermicomposting**

*Certificate issued on 28th June 2021*

*(computer generated record does not need a signature)*

