

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:

Paper I	Theory
Paper II	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

Course Coordinator Dr. Rohit Kumar, Asstt. Prof. (Agronomy) Faculty of Agricultural Sciences SGT University, Gurugram	Dean (FASC) Prof. (Dr.) Ashok Kumar
---	---


Registrar
SGT University,
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:

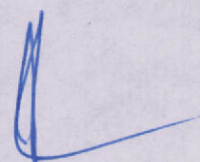
1.	Students can construct their own compost farm & thereby can generate income.
2.	Students/ farmers by using vermicompost in their field can increase the crop yield.
3.	Students residing in cities can produce vermicompost in small scale for garden/household plants.
4.	They can get the jobs in educational 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


Registrar
SGT University,
Budhera, Gurugram

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 th year	2826
2	Ankit	171101009	B.Sc. (Hons.) Ag 4 th year	2827
3	Madhu Sangwan	171101016	B.Sc. (Hons.) Ag 4 th year	2828
4	S. Menaka	171101024	B.Sc. (Hons.) Ag 4 th year	2829
5	Naveen Sharma	171101025	B.Sc. (Hons.) Ag 4 th year	2830
6	Rohan Kumar Singh	171101027	B.Sc. (Hons.) Ag 4 th year	2831
7	Tej Singh	171101034	B.Sc. (Hons.) Ag 4 th year	2832



Registrar
SGT University,
Budhera, Gurugram



SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY
(UGC Approved) Gurugram, Delhi-NCR

Budhera, Gurugram-Badli Road, Gurugram (Haryana) – 122505 Ph. : 0124-2278183, 2278184, 2278185

Recycling of waste by vermin-composting

Outcomes: By this certificate course, students can construct their own compost farm & thereby can generate income. By application of vermin compost, their field can be increased crop yield. Students residing in cities can produce vermin compost in small scale for garden or house hold plants. It will lead towards organic farming and healthy food. Pollution cannot be controlled in today's date. So, garbage recycling has become necessary in order to sustain our health and environment.

Registrar
SGT University,
Budhera, Gurugram