



COURSE SPECIFICATION 5th SEMESTER:

Course Name : Agricultural Waste Management
Code : KL 661
Credit : (2-0)

Course Description:

This course study the relationship between agricultural, environmental and human waste. This course study the types of waste, their origin and its physical purpose. Evaluation of the selection of waste handling methods, whether converted into fertilizers or bioenergy such as briquettes and biogas, is studied in detail so that students will be able to evaluate the types of waste handling required in an integrated agricultural system.

References:

- Loehr, Raymond. 1974. Agricultural Waste Management. Academic Press Publisher.
- Ghosh, Sadhan Kumar (Ed). 2019. Waste Management and Resource Efficiency. Proceeding of 6th IConSWM 2016. Springer Publisher.
- Bosso, Thelma (Ed). 2016. Agricultural Waste Management. Callisto References Publisher
- Pal, Mahendra. 2015. Waste Treatment Technology. NIIR Project Consultancy Services Publisher

Topics:

1. Characteristics of waste based on its intent and origin
2. Difference between solid and liquid waste
3. Handling food waste
4. Solid waste treatment
5. Liquid waste treatment
6. Animal manure becomes organic fertilizer
7. Conversion of agricultural waste into briquettes and biogas
8. Energy conversion that is environmentally friendly, affordable and efficient.
9. Upstream processes
10. Downstream processes
11. Anaerobic digestion crop
12. Handling agricultural waste