



Centurion  
UNIVERSITY

*Shaping Lives...  
Empowering Communities...*

## Lecture-13

**Integrated Farming System-  
historical background,  
objectives and  
characteristics, components  
of IFS and its advantages**



**Centurion**  
**UNIVERSITY**  
*Shaping Lives...  
Empowering Communities...*

# Definition

- It is defined as a new type of system in which multiple agricultural productions and development are guided, organized and managed in the light of ecological-economic principles and by using the system engineering approach
- IFS works as a system of systems. It ensures that waste from one firm become a resource for another firm

# Objectives



**Centurion**  
**UNIVERSITY**  
*Shaping Lives...  
Empowering Communities...*

- To identify existing farming systems in specific areas and access their relative viability
- To formulate farming system models involving main and allied enterprises for different farming situations.
- To ensure optional utilization and conservation of available resources and effective recycling of farm residues within system
- To raise overall profitability of farm household by complementing main/allied enterprises with other.



**Centurion**  
**UNIVERSITY**  
*Shaping Lives...  
Empowering Communities...*

## Goals of IFS

- Provide a steady and stable income rejuvenation/amelioration of the system's productivity and
- Achieve agro-ecological equilibrium through the reduction in the build-up of pests and diseases, through natural cropping system management and the reduction in the use of chemicals (in-organic fertilizers and pesticides).



**Centurion**  
**UNIVERSITY**  
*Shaping Lives...  
Empowering Communities...*

# Advantages of IFS

1. Productivity
2. Profitability
3. Potentiality
4. balanced food
5. Environmental safety
6. Recycling
7. Income round the years
8. Adoption of new technologies



**Centurion**  
**UNIVERSITY**

*Shaping Lives...  
Empowering Communities...*

9. Meeting fodder crisis
10. Meeting timber and fuel crisis
11. Employment generation
12. Agro- industries
13. Increasing input efficiency
14. Increasing standard of living



**Centurion**  
**UNIVERSITY**

*Shaping Lives...  
Empowering Communities...*

# Mixed farming vs Farming system

- Subsistence is important objective of mixed farming while higher productivity without altering ecological balance is important in farming systems



**Centurion**  
**UNIVERSITY**

*Shaping Lives...  
Empowering Communities...*

# Components of Integrated Farming system

Agriculture	Kitchen garden
Fish farming	Poultry
Horticulture	Fodder production
Duck rearing	Goat rearing
Forestry	Nursery
Pigeon rearing	Sheep rearing
Mushroom cultivation	Seed production
Sericulture	Piggery
Azolla rearing	Vermiculture
Diary	Bio-gas

- Crop component- cereals, pulses, oilseeds etc.
- Animal component- Cattle, goat, sheep etc.
- Homestead farming- Bio-gas, grinding and splitting of pulses etc.



Centurion  
UNIVERSITY

*Shaping Lives...  
Empowering Communities...*

# How to select an enterprise

- Soil and climatic features of an area
- Social status of the family and social customs in the locality
- Economical condition of farmer
- Economics of proposed IFS and credit facilities
- Farmer's managerial skills
- Household demand
- Institutional infrastructure and technological know how
- Market facilities



**Centurion**  
**UNIVERSITY**  
*Shaping Lives...*  
*Empowering Communities...*

**Thank You**