



Centurion
UNIVERSITY

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

LECTURE 1

FARMING SYSTEM-SCOPE, IMPORTANCE, AND CONCEPT



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

Introduction

- Progress of a country depends on prosperity of farmers which depends upon adoption of improved technology and judicious allocation of resources
- To make farming economically viable and environmentally sound and sustainable.
- This can only be made possible through farming system approach as per the recommendations of several researchers
- Since, this can meet multiple objectives like
 - Poverty reduction
 - Food and nutritional security
 - Competitiveness
 - Sustainability



Centurion
UNIVERSITY

Shaping Lives...
Empowering Communities...

Definition

Farming- process of harnessing solar energy in the form of economic plant and animal product

System- set of inter-related, interacting and interdependent acting together for a common purpose and capable of reacting as a whole to external stimuli

Farming system - Farming system is defined as a population of individual farm system that have broadly similar resource bases, enterprise patterns, household livelihoods and constraints for which similar developmental strategies and interventions would be appropriate (FAO- Farming system).



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

SCOPE OF FARMING SYSTEM

- Farming system approach is an approach for developing farm-household system, built on principles of productivity, profitability, stability and sustainability
- It emphasizes understanding of farm household, community inter-linkages, reviews constraints and assess potentials
- It combines improvements designed for better technology
- It is continuous dynamic and interactive learning process based on analysis, planning, testing, monitoring and evaluation



Centurion
UNIVERSITY

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

IMPORTANCE OF FARMING SYSTEM

- Reduces risk of monoculture.
- Promotes enterprise diversification.
- Promotes value addition.
- Development of alternate income sources with efficient utilization of farm resources.
- Provides opportunity for effective recycling of products and by-products.
- It helps to generate flow of cash to farmers year round.



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

CONCEPT OF FARMING SYSTEM

- Income through arable land alone is insufficient for bulk of marginal farmers, other activities such as dairy, poultry, sericulture, apiculture, fisheries etc. assume critical importance in supplementing the farm income.
- To evolve **technically feasible and economically viable farming system** model by integrating cropping with allied enterprises with a view to generate employment and income from the farm.
- A judicious **mix of any one or more of these enterprises** with agronomic crops should complement the farm income and help in recycling the farm residues/wastes.



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

Summarized concept:

It is a holistic approach, complex in nature, inter-related of components, matrix of soils, plants, animals, power, implements, labour, capital and other inputs, influenced by political, economic, institutional and social factors.