

Syllabuses as per 6th Deans' Committee Recommendation of the ICAR

Farming Based Livelihood Systems

(Theory & Practices)

2+1

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Authors

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Preface

The concept of farming-based livelihood systems has gained significant importance in recent times, given its potential to provide sustainable livelihood opportunities to millions of rural households in India. This book aims to provide a comprehensive understanding of the theoretical and practical aspects of farming-based livelihood systems, with a focus on the diverse range of agricultural systems and enterprises prevalent in the country.

The first section of the book delves into the status of agriculture in India and various states, highlighting the income of farmers and rural people. This section also explores the concept of livelihood, its patterns in urban and rural areas, and the various indicators used to study livelihood systems.

The second section introduces the reader to the concept of agricultural livelihood systems (ALS) and the different approaches and frameworks that have been developed to study these systems. The section also defines farming systems and farming-based livelihood systems, and provides an overview of the prevalent farming systems in India that contribute to livelihood.

The third section delves deeper into the components of farming-based livelihood systems, including crops and cropping systems, livestock (dairy, piggery, goatry, poultry, duckry, etc.), horticultural crops, agro-forestry systems, and aquaculture. This section also explores the various small, medium, and large enterprises, including value chains and secondary enterprises that serve as livelihood components for farmers.

The fourth section focuses on the factors affecting the integration of various enterprises of farming for livelihood, and provides an overview of the feasibility of different farming systems for different agro-climatic zones. The section also highlights the commercial farming-based livelihood models promoted by NABARD, ICAR, and other organizations across the country, and presents case studies on different livelihood enterprises associated with farming.

The fifth section discusses the risk and success factors in farming-based livelihood systems, and provides an overview of the schemes and programs implemented by the Central and State Governments, as well as public and private organizations, to promote farming-based livelihood opportunities;

The final section explores the role of farming-based livelihood enterprises in the 21st century, in the context of circular economy, green economy, climate change, digitalization, and changing lifestyles. The section also highlights the importance of value chain models in the agri-sector and provides insights into the concept of project formulation on farming-based livelihood systems, along with cost and profit analysis.

Throughout the book, practical aspects of farming-based livelihood systems are emphasized, including surveys of farming systems and agricultural-based livelihood enterprises, study of production and profitability of various farming models, field visits to innovative farming system models, and visits to agro-based enterprises to understand their functional aspects. The book also includes case studies of start-ups in the agri-sector, providing valuable insights into the challenges and opportunities in this dynamic and evolving sector.

We hope that this book serves as a valuable resource for students, researchers, policymakers, and practitioners in the field of agriculture and rural development, and contributes to the promotion of sustainable and inclusive farming-based livelihood systems in India and beyond.

The authors are gratefully acknowledging all sources of data and information availed through different Medias.

Authors

Syllabuses

Objectives

1. To make the students aware about farming-based livelihood systems in agriculture.
2. To disseminate the knowledge and skill how farming-based systems can be a source of livelihood.

Theory

Status of agriculture in India and different states, Income of farmers and rural people in India, Livelihood- definition, concept and livelihood pattern in urban and rural areas, Different indicators to study livelihood systems; Agricultural livelihood systems (ALS): Meaning, approach, approaches and framework, Definition of farming systems and farming based livelihood systems Prevalent Farming systems in India contributing to livelihood. Types of traditional and modern farming systems; Components of farming system/ farming-based livelihood systems- Crops and cropping systems, Livestock (Dairy, Piggery, Goatry, Poultry, Duckry etc.), Horticultural crops, Agro—forestry systems, Aquaculture Duck/Poultrycum Fish, Dairy cum-Fish, Piggerycum Fish etc., small, medium and large enterprises including value chains and secondary enterprises as livelihood components for farmers, Factors affecting integration of various enterprises of farming for livelihood. Feasibility of different farming systems for different agro-climatic zones, Commercial farming-based livelihood models by NABARD, ICAR and other organizations across the country, Case studies on different livelihood enterprises associated with the farming. Risk and success factors in farming-based livelihood systems, Schemes and programs by Central and State Government, Public and Private Organizations involved in promotion of farming-based livelihood opportunities. Role of farming- based livelihood enterprises in 21st Century in view of circular economy, green economy, and climate change, digitalization and changing lifestyle;

Practical

Survey of farming systems and agricultural-based livelihood enterprises, Study of components of important farming - based livelihood models/ systems in different agro-climatic zones, Study of production and profitability of crop based, livestock based, processing based and integrated farming-based livelihood models, Field



visit of innovative farming system models. Visit of agro-based enterprises and their functional aspects for integration of production, processing and distribution sectors and Study of agri-enterprises involved in industry and service sectors (Value Chain Models), Learning about concept of project formulation on farming based livelihood systems along with cost and profit analysis, Case study of Start-Ups in an agri-sectors.

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