INTEGRAL UNIVERSITY
LUCKNOW - INDIA

ACCREDITED A+ BY NAAC

CELEBRATING 26 YEARS OF EXCELLENCE

# VALUE-ADDED COURSE ON

# SUPPLY CHAIN OPTIMIZATION IN AGRICULTURE

**AGV-04-2324**

ORGANIZED BY

**DEPARTMENT OF AGRICULTURE**

**INTEGRAL INSTITUTE OF AGRICULTURAL SCIENCE & TECHNOLOGY (IIAST)**

**27th FEB - 13th MAR, 2024**

***Dear All,***

*We are pleased to announce that Department of Agriculture (IIAST), Integral University, Lucknow is going to offer a Value- Added course (VAC) on "SUPPLY CHAIN OPTIMIZATION IN AGRICULTURE" from 27th February, 2024 for the students of all courses*

# SUPPLY CHAIN OPTIMIZATION IN AGRICULTURE

Supply chain optimization in Agriculture is a critical strategy aimed at enhancing the efficiency, productivity, and sustainability of the Agricultural sector. It involves the integration of advanced technologies, data analytics, and collaborative practices across the entire Agricultural supply chain, from farm to consumer. By leveraging precision Agriculture techniques, such as sensor technology and data analytics, farmers can make informed decisions regarding crop management, resource allocation, and harvesting schedules, resulting in improved yields and reduced environmental impact. Furthermore, optimization efforts extend to transportation logistics, warehousing, and distribution, ensuring timely delivery of fresh produce while minimizing waste and maximizing profitability. Through continuous improvement initiatives driven by data analysis and feedback loops, supply chain optimization in agriculture aims to meet the evolving demands of consumers, enhance food quality and safety, and promote sustainable practices throughout the agricultural industry. The course will cover optimization techniques aimed at improving production, distribution, and market access while ensuring environmental and social sustainability.

## Objectives

- To apply optimization techniques to improve agricultural production and distribution processes
- To assess and address sustainability challenges within agricultural supply chains
- To analyze weather data and forecasts to make informed decisions regarding crop selection, irrigation, and pest management.
- To utilize technology and innovation to enhance efficiency in agricultural operations
- To develop strategies to increase market access and reduce waste in the agricultural sector

## Learning Outcomes

**Students will understand**

- Complexities and dynamics of agricultural supply chains.
- Optimization strategies to improve agricultural production and distribution.
- Sustainability implications within agricultural supply chains.
- Integrate technology and innovation for enhanced efficiency in agriculture.
- Strategies to improve market access and reduce waste in agricultural supply chains

## Course Details

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| **Course Platform** | : | ili (Integral Learning Initiative : A Collaborative Blended Learning Platform)/Goggle Meet |
| **Course Duration** | : | 30+ Hours (2 hours per Day including Quiz) |
| **Course Start Date** | : | 27th February 2024 |
| **Course End Date** | : | 13th March 2024 |
| **Registration Date** | : | 19th February, 2024 to 26th February, 2024 |
| **Target Participants** | : | All Courses |

# OUTLINE OF VALUE ADD COURSE

## Module 1 (6+1 hrs.)

Overview of Agricultural supply chain components, Changing Business Environment, Challenges and opportunities in Agricultural logistics, Dynamics of farm-to-market Operations

**Quiz Test**

## Module 2 (6+1 hrs.)

Precision Agriculture and data-driven farming techniques, Supply chain planning and management for agricultural products, Seasonal demand forecasting and inventory optimization

**Quiz Test**

## Module 3 (6+1 hrs.)

Environmental impacts of Agricultural practices, Implementing sustainable practices in farming and distribution

**Quiz Test**

## Module 4 (6+1 hrs.)

IoT applications in smart farming and supply chain management, AI and machine learning for Agricultural optimization, Blockchain for transparency and traceability in Agricultural supply chains

**Quiz Test**

## Module 5 (6+1 hrs.)

Market integration strategies for Agricultural products, Reducing food waste through optimized supply chains, Case studies on successful market access and waste reduction initiatives in Agriculture.

**Quiz Test**

**Total duration of course** **30+ Hours**

## TEAM VAC, DEPARTMENT OF AGRICULTURE

| | |
|---|---|
| **Dr. Srishti Thakur** | **Module 1** |
| **Dr. Ruqaiya Bano** | **Module 2** |
| **Dr. Srishti Thakur** | **Module 3** |
| **Dr. Ruqaiya Bano** | **Module 4** |
| **Dr. Srishti Thakur & Dr. Ruqaiya Bano** | **Module 5** |

*** Timing : Everyday, 6:00 PM to 8:00 PM**

CONVENER

**Prof. SABA SIDDIQUI**

HEAD

DEPARTMENT OF AGRICULTURE (IIAST)

Integral University, Lucknow

- E-certificate will be issued to participants having 75% attendance and 50% marks in Quiz & Assignment
- Joining link will be shared on the registered email id one day before the commencement of the course

MODE ONLINE

Course Coordinator

**Dr. SRISHTI THAKUR**

Phone No. 8988 40 2457 Email: srishti@iul.ac.in

**Dr. RUQAIYA BANO**

Phone No. 9045 75 5804 Email : ruqaiyab@iul.ac.in

**Registration Form Link : https://forms.gle/VTS4w78ZqdBLfmTY9**

**SCAN THIS QR CODE FOR REGISTRATION**

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