



A Brief Report on Value Added Course on
“**COMMERCIAL AGROFORESTRY**”

Course Code: AGV- 03-2425

(8th February 2025 to 22nd February 2025)

Organized by Department of Agriculture,

Integral Institute of Agricultural Science and Technology (IIAST)

Integral University, Lucknow

Agroforestry is an integrated approach to land use that combines agricultural crop, trees and livestock practices to achieve economic, ecological, and social benefits. Commercial Agroforestry involves cultivating trees as cash crops alongside inter-crops to optimize land use and profitability. In India, it is widely practiced with tree species such as *Eucalyptus*, *Populus*, *Casuarina*, *Ailanthus*, *Melia*, *Anthocephalus*, *Acacia*, and *Bombax*. A Commercial Agroforestry system that integrates sericulture (silk farming) and lac culture offers a sustainable and innovative model for maximizing land productivity while enhancing biodiversity and supporting rural livelihoods. This system involves growing specific tree species that serve dual purposes providing economic returns through timber, fodder, or fruit while also acting as host plants for silkworms and lac insects. For example, *Morus alba* (mulberry) is a preferred tree species in sericulture, while *Schleichera oleosa* (kusum), *Butea monosperma* (palash), and *Ziziphus mauritiana* (ber) are widely used in lac culture.

Department of Agriculture, Integral Institute of Agricultural Science and Technology (IIAST) took proactive steps by organizing a comprehensive virtual value-added course on "Commercial Agroforestry". The course, conducted from 8th February 2025 to 22nd February 2025, spanned over 30 hours and was thoughtfully designed by expert instructors. The initiative reflects the commitment of IIAST to provide knowledge and skills that align with contemporary needs and opportunities in the field of Commercial Agroforestry. This course was specially designed for all the UG, PG and Ph.D. course students of any department throughout the university. A total of 144 students were registered and 132 students passed in the course based on quiz and attendance. This was a virtual mode course conducted and lectures were delivered daily between 6:00-8:00 PM excluding Quiz.

The Value-Added Course was conducted under the guidance of Dr. Saba Siddiqui, Head, Department of Agriculture, Integral University and was coordinated and facilitated by the following faculty members.

1. Dr. Shamim Akhtar Ansari
2. Dr. Virendra Pal Gupta
3. Dr. Ayush Bhushan

The Course modules were addressed by the following resource persons:

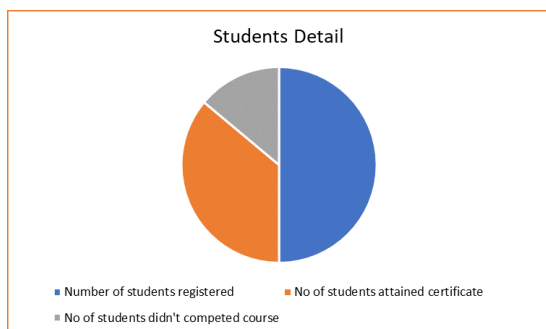
S.No	Date		Course Instructor	Module	Outcome
	From	To			
1.	08/02/2024	10/02/2024	Dr. Ayush Bhushan	Overview of Commercial Agroforestry, definitions, objectives, importance, criteria of selection of trees in Agroforestry. Different Agroforestry systems prevalent in the country, shifting cultivation, taungya, alley cropping, wind breaks and shelter belts and home gardens. Quiz Test	Students gained foundational knowledge of Commercial Agroforestry.
2.	11/02/2024	13/02/2024	Dr. Ayush Bhushan	Basis of classification of Agroforestry systems and principles, structural and functional attributes of Agroforestry systems. Tree-crop interaction, nature and types of interaction-positive and negative, above and below ground interaction competition.. Quiz Test	Students learned about tree-crop interactions, and Agroforestry practices for Sustainability and productivity.
3.	14/02/2024	16/02/2024	Dr. Shamim Akhtar Ansari	Introduction of Lac Culture- history, meaning, Importance, types and uses, host plant, Propagation of lac insect, Inoculation period and harvesting of Lac. Composition of Lac, Lac Processing, Stick lac, Seed lac, Shellac, Handmade process, Heat process, Solvent processes, Lac Product and Their uses, Lac dye, Lac wax, Shellac and Bleached shellac. Quiz Test	Students understood about Lac harvesting, processing methods various lac-based products
4.	17/02/2024	19/02/2024	Dr. Virendra Pal	Introduction to Sericulture, scope origin and history of	Students gained fundamental

			Gupta	sericulture, types of Silk produced in India (Mulberry, Tussar, Eri, Muga,). Silkworm host plants and their selection, Silk producing states of India - cocoon and Silk production. Quiz Test	understanding of sericulture, and its economic scope, along with the different types of silk produced in India
5.	20/02/2024	22/02/2024	Dr. Ayush Bhushan	Cultivation of Suitable Agroforestry Species, different Agroforestry models prevalent in India, important MPTS and their management. Industrial Plantations , Integrated Agroforestry Farming System. Quiz Test	Students learned about The cultivation and management of suitable Agroforestry species and Industrial plantations.

Number of students registered

Number of students registered	No of students attained certificate	Percentage engagement
144	111	77.08 %

All participants who successfully completed the course were awarded e-certificates based on their quiz performance, unit-wise feedback, attendance, overall feedback, and a minimum 50% qualification criterion. This value-added course provided participants with comprehensive knowledge of Commercial Agroforestry, highlighting its role in enhancing agricultural productivity, economic returns, and environmental sustainability.



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- Dr Ayush Bhusan (You) Meeting host
- Dr Ayush Bhusan Your presentation
- Abdul Mannan

22 others

Dr Ayus...

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INTEGRAL UNIVERSITY

Classification of Agroforestry System

Presented by Dr. Ayush Bhusan Assistant Professor Department of Agriculture Integral Institute of Agricultural Science and Technology, Integral University, Lucknow

Click to add notes

Notes Comment 50%

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Shamim Ansari (Presenting)

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Kamran Siddiqui has joined

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Contributors 20

- Dr Ayush Bhusan (You) Meeting host
- Abhishek Kumar Ghosh
- Abhishek Pandit

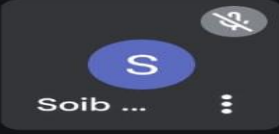
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Rajeshwari is presenting



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BY NAAC**

**ICAR
ACCREDITED
AGRICULTURE PROGRAM**

**CERTIFICATE
OF
COMPLETION OF VALUE ADDED COURSES
ON
COMMERCIAL AGROFORESTRY**

*This is to certify that Mr./Ms.Enrollment No.
.....has completed the 30 hours Value Added Course on Commercial
Agroforestry offered by Integral Institute of Agricultural Science and Technology (IIAST),
Integral University, Lucknow from 8th February 2025 to 22nd February 2025.*

Dr. Ayush Bhushan
Course Co-ordinator,
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Integral University, Lucknow

Prof. Saba Siddiqui
Head,
Department of Agriculture, IIAST
Integral University, Lucknow

Prof. Mohd. Haris Siddiqui
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