

**On Campus Training Programme**  
**on**  
*Technologies and Extension Strategies  
for Value Addition and Post Harvest  
Management in Agri and Horticultural  
sectors*



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### **Introduction:-**

The stage of crop production immediately following harvest, including cooling, cleaning, sorting and packing may be termed as Post Harvest Handling. Fresh Fruits and Vegetables including root crops are mostly perishable in nature. They begin to deteriorate immediately after its separation from the parent plant and suffer considerable losses during the process of Marketing.

### **These losses may be of following nature:-**

1. Quality downgrading due to handling
2. Physiological spoilage (rooting & sprouting)
3. Pathological Spoilage from pest and diseases
4. Oversupply to markets

### **Main Reason of Post Harvest Losses:-**

1. Inadequate or Inappropriate application of proper Post Harvest Practices.
2. Improper production planning.

On the Other hand, Value Addition in Horticulture is the process in which a high price is realized for the same volume of a primary product, by means of processing, packing, upgrading the quality or other such methods. For example: Making Jam of Pomegranate and Strawberry.

### **Need for value addition :-**

- To improve the profitability of farmers.
- To empower the farmers and other weaker sections of society especially women through gainful employment opportunities and revitalize rural communities.
- To provide better quality, safe and branded foods to the consumers.
- To emphasize primary and secondary processing.
- To reduce post harvest losses.
- Reduction of import and meeting export demands.
- Way of increased foreign exchange.
- Encourage growth of subsidiary industries.
- Reduce the economic risk of marketing.
- Increase opportunities for smaller farms and companies through the development of markets.
- Diversify the economic base of rural communities.
- Overall, increase farmers' financial stability.

Agricultural extension has an important role to play in creating awareness and improving knowledge of stakeholders on proper post-harvest handling techniques and value addition. The effectiveness of extension service delivery in the post-harvest Agriculture and horticulture sector, however, largely depends on the adequacy of extension workers and technical experts on post-harvest handling; availability of information, education and communication (IEC) materials; and the budget allocation for the conduct of extension activities. If post-harvest handling technologies will be widely disseminated and adopted, the quality and safety of horticultural perishables will be improved, hence, market competitiveness will be enhanced. Ultimately, this will lead to increased profits and income of industry stakeholders and increased foreign exchange earnings.

Hence as part of the regular schedule of EEI programmes, a 5 days on campus training programme is planned to improve the knowledge and skill of the extension functionaries in the area of “Technologies and Extension Strategies for Value Addition and Post Harvest Management in Agri and Horticulture sectors”

### **Objectives of the training:-**

At the end of the training the participants will be able

- To use the knowledge and skills in post harvest technologies and value addition in Agriculture and Horticulture sectors
- To develop the extension strategies for promotion of post harvest technologies and value addition in Agriculture and Horticulture sectors at field level
- To learn various Value addition and Post Harvest Technologies in Agriculture and Horticulture sectors

### **Course content:-**

An overview on value Addition and post harvest technologies: emerging challenges in Agriculture and Horticulture sectors, Food processing industry in India: Initiatives and promotion, Value Addition Technologies in

Agriculture and Horticulture sectors, Indigenous Technologies for post harvest management and value addition in Agri and Horti. Sectors, value added dairy products through Blending of Agriculture and Horticulture produce, IT enabled Marketing of Agriculture and Horticulture products, Promotion of Entrepreneurship and Rural Agro Processing through Post Harvest Technologies, Value addition and Branding of Agriculture and Horticulture Commodities, Registration, Packaging and ware housing of Agriculture and Horticulture products and Post harvest Handling Processing for Export of Agri and Horti products.

**Methodology:-**

- Presentation by eminent speakers / Experts.
- Interim interactive sessions.
- Interim Group discussions.
- Brain storming
- Individual and Group assignment
- Participant Presentations by using on line tools
- Integrating David Kolb's Experiential learning Technique in Training
- Kirkpatrick's model of training evaluation

**Participating Officers:-**

Officers of Department of Agriculture and Horticulture of South Indian States and Union Territories

**Duration :** 21 -25 June 2022 (both days inclusive) in Physical mode.

**Compiled by**

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