

Quadrant II – Notes

Programme: B. Sc. (Hons.) Agri.

Subject: Horticulture

Course Code: HORT- 232

Course Title: Production Technology for Vegetables and Spices

Module Name: Multistoried cropping

Module No: 24

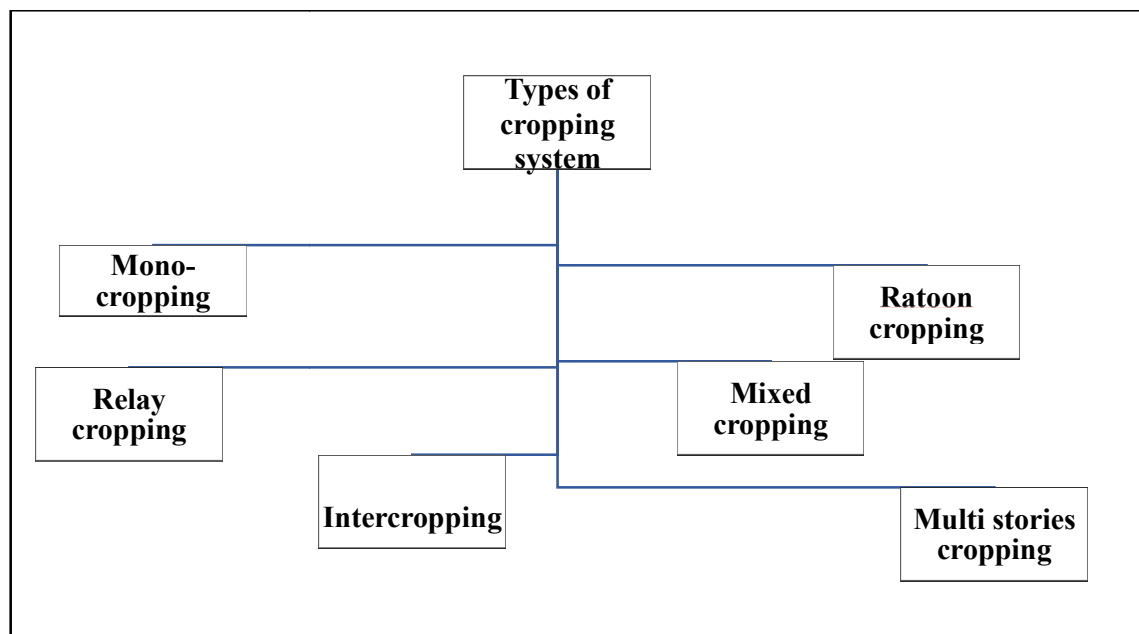
Name of the Presenter: Gourish Karanjalker

Notes :

Multistoried cropping

- ❑ **Cropping system:** crop pattern in which the crop of compatible nature are grown in combination on the farm year after year for maximum use of land and space to ensure good farm production input
- ❑ Traditional *Kulagar* system of Goa

Types of cropping systems

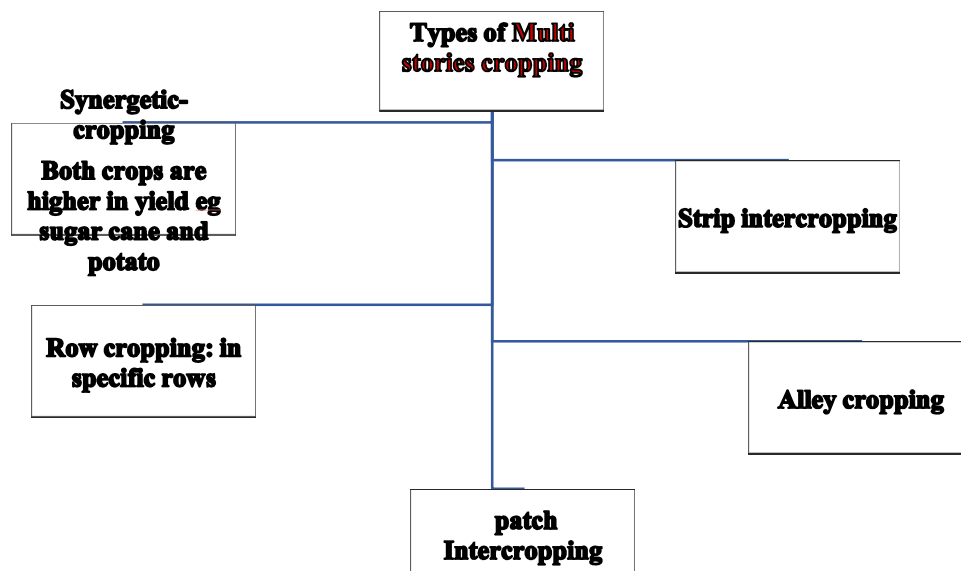


Advantages of cropping systems

- Maximum utilization of land
- Maximum utilization of inputs
- Better harnessing of resources of water and solar
- Yield quantum
- Sustainable production

Multi stories cropping

- Multi-Tier or multi level
- Growing plants of different height in the same field at the same time is termed as multistoried cropping
- Utilization of vertical space
- As per the requirement of solar radiation
- Coconut-pineapple-pepper-cacao
- Eucalyptus+ papaya + potato + onion + mustard
- Crop arrangement is important



Benefits of Multi storied cropping

- High income from piece of land
- Employment throughout the year

- Compensation of the loss
- steady supply of farm products through out the year
- Maximize land use
- Pattern distribution of the crops
- Reduces the impacts of high intensity winds, rainfall, soil erosion and landslides, etc.
- Utilisation of solar energy
- Efficient water use
- Enrich fertility of soils
- Improve the organic matter of soil
- Effective weed control
- Compensation during market glut of single commodity
- Wide range of products
- Crops can be grown according to market preference
- Maintain an ecological balance
- Increase biodiversity which reduces pest and disease pressure
- Provide micro-climate conditions that benefit underneath crops
- Constraints Drought conditions cropping could be affected
- Lack of funds for growing multiple crops
- Lack of technical knowledge of cropping systems and each crop
- Timely availability of inputs is needed
- Pest and disease incidences might vary with crop
- Lack of irrigation facilities
- Lack of labour availability

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