

## Floriculture

### CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course Title & Code	Credits	Credit Distribution Of The Course			Eligibility Criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
Floriculture	2	0	0	2	Class XII	NIL

#### Learning Objectives

- To acquaint students with the basic principles and importance of Floriculture.
- To teach students about flowering plants that can be grown in different seasons in Delhi-NCR.
- To make students aware about exotic flowering plants of ornamental value and their propagation in laboratories and greenhouses.
- To provide information about employment, business opportunities and other avenues in the Floriculture sector (Floriculturist).

#### Learning Outcomes

After completion of this course learners will be able to:

- identify and describe the ornamental flowering plants in Delhi-NCR.
- practice the methods of preparing soil and water, cultivation and propagation methods.
- design, prepare and apply appropriate combinations of plants and methods of cultivation for commercial setup.
- adapt to the job role of Floriculturist (employment/ entrepreneurship)

#### SYLLABUS

Practicals: 60 hours

1. Introduction to floriculture, tools and equipments. 4 hours
2. Study of diversity in shape, size, and colour of flowers (including basic botany, nomenclature, common name and general uses). 4 hours
3. Identification and preparation of an inventory of herbaceous flowering plants, climbers, shrubs, and trees around the campus. 4 hours
4. Study the various physico-chemical soil properties for understanding different soils/soil-types. 8 hours
5. Methods of preparation of floral beds, soil preparation, greenhouse design and

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|     | fumigation methods.  | 8 hours |
| 6.  | Methods of seed sowing and raising flowering plants through seeds, bulbs and through vegetative methods in planters, containers and in outdoor environments. Role of light, plant growth regulators and nutrients in blooming and flowering. | 8 hours |
| 7.  | Bacterial and fungal diseases and pests of ornamental flowers and their management.  | 4 hours |
| 8.  | Interior decoration methods, flower arrangements (Japanese, Western and Indian).   | 4 hours |
| 9.  | Harvesting, methods to increase the shelf life of flowers, post-harvest care and marketing platforms for the floriculture industry.  | 8 hours |
| 10. | Field visit to nearby nursery/garden to understand basic aspects of Garden design.   | 4 hours |
| 11. | Project Report on any five flowering plants that are grown commercially, their share in the global market, methods used for selling the products and importance of the floriculture industry in job creation.                                | 4 hours |

**Essential Readings:**

1. Randhawa, G.S., Mukhopadhyay, A. (1986). Floriculture in India. New York, NY: Allied Publishers.
2. Larson, R. A. (Ed.). (2012). Introduction to floriculture. Elsevier.

**Suggestive Readings:**

1. Pal, S. L. (2019). Role of plant growth regulators in floriculture: An overview. J. Pharmacogn. Phytochem, 8, 789-796.

**Examination scheme and mode:**

Evaluation scheme and mode will be as per the guidelines notified by the University of Delhi.