

**FACULTY OF AGRICULTURE**  
**DEPARTMENT OF HORTICULTURE**  
**GHORVACO2 - DESIGNING OF LANDSCAPE GARDENS**

**Learning Objectives**

- To educate the students about softscape elements of garden
- To understand hardscape elements of garden
- To learn the elements and principles of design
- To study about types and styles of garden
- To learn designing of different landscape gardens

**Course Outcome**

CO1- The student will have knowledge on fundamental gardening principles which form the basis for learning landscape architecture.

CO2- The students will be able to identify different soft and hard landscape elements.

CO3- The students will become capable of designing a garden project and prepare the cost economics.

CO4- The students prepare garden layouts to a specific scale for big commercial projects

**Unit I : Softscape Elements**

Softscape elements –Arboretum –arches - Bambusetum - borders- carpet bed- edge –flower beds –ground covers – hedges - lawn - palmatum – pergola – pinetum - rosarium – shrubbery – specimen plant –topiary –trophy

**Unit II: Hardscape Elements**

Hardscape elements - Fences – gates- garden seats – boxes –tubs – urns – ornamental vases - fountains – cascades – bridges – bird baths – sundials – floral clocks - Japanese lanterns - statues – ornamental stone pillars – ponds – planter boxes- gazebo

**Unit III: Elements and Principles of design**

Elements of design - point – line – shape – form – texture – colour - Principles of design - proportion – balance – rhythm –unity

**Unit IV: Types and styles of garden**

Types of gardens –Hindu, Buddhist, Persian, Mughal, Japanese, Italian, English garden and French garden - Styles of garden – formal, informal, mixed and wild gardens

## **Unit V: Designing of different landscape gardens**

Designing of home garden – institutional garden - industrial garden- public park - theme park - avenue planting

### **PRACTICALS**

Identification of ornamental plants for landscaping - practices in preparing designs for softscape elements, lawn making, hardscape elements, elements and principles of design, home gardens, industrial gardens, institutional gardens, corporates, avenue planting. Practices in planning and planting of Hindu, Buddhist, Mughal, Japanese gardens, English, French and Italian gardens. Visit to model ornamental nursery and botanical gardens. Case study on commercial landscape gardens.

### **LECTURE SCHEDULE**

1. Softscape elements –Arboretum –Arches- Bambusetum
2. Borders- Carpet bed- edge –flower beds –ground covers –hedges
3. Lawns – establishment and maintenance
4. Palmatum – pergola – pinetum
5. Rosarium – shrubbery – specimen plant –topiary –trophy
6. Hardscape elements - non plant components in landscape gardening
7. Fences – gates- garden seats – boxes –tubs – urns – ornamental vases
8. Fountains – cascades – bridges – bird baths – sundials – floral clocks.
9. Japaneses lanterns- statues – ornamental stone pillars – ponds – gazebo
10. Elements of garden design - Point – line – sharp – form –texture – colour
11. Principles of garden design - Proportion – balance – rhythm –unity
12. Types of gardens –Hindu, Buddist, Persian, Mughal, Japanese, Italian, English garden and French garden
13. Styles of garden – formal, informal, mixed and wild gardens
14. Landscaping for home gardens
15. Landscaping for institutions - schools and universities
16. Landscaping for industrial areas
17. Landscape designs for amusement - public park - theme park
18. Landscape designs for avenue planting

### **REFERENCE BOOKS**

1. Bose TK, Maiti RG, Dhua RS & Das P. 1999. Floriculture and Landscaping.
2. NayaProkash.

3. Nambisan KMP.1992. Design Elements of Landscape Gardening. Oxford & IBH
4. Randhawa GS & Mukhopadhyay A. 1986. Floriculture in India. Allied Publ.
5. Trivedi, P.P.1983. Home Gardening. Statesman Press. New Delhi. India
6. Sabina GT & Peter KV. 2008. Ornamental Plants for Gardens. New India Publ. Agency.
7. Valsalakumari *et al.* 2008. Flowering Trees. New India Publ. Agency.
8. Woodrow MG.1999. Gardening in India. Biotech Books
9. Lauria A & Victor HR. 2001. Floriculture – Fundamentals and Practices Agrobios
10. Nick-Christians 2004. Fundamentals of Turfgrass Management.
11. Randhawa, G. S. and A. Mukhopadhyay, 2001. Floriculture in India. Allied Publishers Limited, New Delhi.
12. Walter P.Wright. 2002. Encyclopaedia of Horticulture and Gardening, Biotech Books, Delhi
13. Bhattacharjee, S. K. 2006. Advances in Ornamental Horticulture - Vistas in Floriculture. Pointer publishers, Jaipur
14. Bose. T. K, R. G. Maiti, R. S. Dhua and P. Das. 2012. Floriculture and Landscaping. NayaUdyog, Kolkatta
15. Kannan, M., P. Ranchana and S. Vinodh. 2017. Ornamental Gardening and Landscaping. New India Publishing Agency, New Delhi
16. Christine Wein-Ping Yu 1987. Computer-aided Design: Application to Conceptual Thinking in Landscape Architecture

#### **SUGGESTED WEBSITES**

1. <http://www.the-landscape-design-site.com>
2. <http://landscaping.about.com>
3. <http://dir.gardenweb.com/directory/d-home.html>
4. <http://www.gardenworld.co.uk>
5. <http://www.lawn.co.uk>