ST. JOSEPH’S COLLEGE FOR WOMEN (AUTONOMOUS) VISAKHAPATNAM

III SEMESTER  **AGRICULTURE AND RURAL DEVELOPMENT** TIME: 15HRS

HORD 282 (1) **PRODUCTION TECHNOLOGY OF ORNAMENTAL CROPS &**

w.e.f 2024-2025 (23AK Batch) **LANDSCAPING** MARKS:100

**SYLLABUS**

**OBJECTIVES:**

* To know importance of landscaping and making place aesthetically
* To understand the scientific cultivation methods of lawn
* To know about various ornamental plants

**Course Outcomes**

**CO1:** understand the importance and research institutes in our country,explain the importance of Ornamental crops

**CO2:** understand about landscaping

**CO3:** to beautify the garden and garden types

**CO4:**  understand principles of landscaping

**UNIT – I:**

1. Definition of Ornamental Horticulture – Importance of Ornamental Horticulture (gardening) – History of gardening.

 3. Definition of landscape and landscaping – Historical background of landscaping – Principles of landscape gardening – Initial approach – Axis – Focal Point – Mass effect – Unity – Space – Divisional Lines – Proportion and Scale – Texture – Time and Light – Tone and Colour – Mobility – Rhythm – Balance  – Harmony –  Style.

 4. Garden components or features –Garden walls – Fences and Gates – Steps – Garden Drives and Paths  – Arches and Pergolas – Screens – Bridges – Garden components or features – Hedges and Edges – Flower bed – Borders – Carpet bedding.

**UNIT – II:**

1. Types of garden – Formal – Informal – Wild Garden – Styles of garden in the world – Mughal Garden –.Features of English – Italian – French – Persian Gardens – Japanese Garden – Types of Japanese Garden – – Features of Japanese Garden .

2. .Lawn – Selection of Grass – Bermuda grass – Korean grass – Poa grass – Fescue grass – Kentucky blue grass - Grasses for shady areas – Site Selection – Soil – Preparation of soil – drainage – digging – manuring and grading – Methods of planting – Sowing of Seeds – Dibbling – Turfing – turf plastering – Bricking – Planting on Polythene – Maintenance of lawn – Mowing – Rolling – Sweeping – Scraping – Raking

**UNIT – III**

1.Ornamental and shady Trees – Definition – Classification based on purpose with suitable examples.Shrubs – Definition – Utility (aesthetic values) – Classification with suitable examples – Herbaceous perennials – Definition – Introduction – Classification with suitable examples Climbers – Definition – Climbers – twiners – ramblers – creepers – Utility (aesthetic values) – Classification with suitable examples Landscaping – cities and towns – Road side plantation – Planting trees in colonies – Land scaping City parks – Large – medium – small parks – pleasure grounds – Examples of ornamental shade and flowering trees for town roads.

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 2. Floral Ornaments – Garlands – Floral crowns – Hair decoration – Rangoli – Floral Bouquets – Buttonholes – Floral arrangement – Western style – Principles of Design viz., – Emphasis – Balance – Proportion – Rhythm – Harmony – Unity – Elements of Design viz., – Line – Form – Texture – Colour

**UNIT – IV:**

1. Japanese floral arrangement – Ikebana – Moribana – Nageire – Jiyu-bana-Zen’ei-ka – Zen’eibana-Morimono – Materials required – General rules.

**UNIT – V:**

 2. Bonsai – Definition – Criteria for selecting plants – Examples – Classification of Bonsai – Upright (formal and informal) – Winding – Winding – Semi-cascadecascade – Clasped to stone – Containers (pots) and Media – Potting and Re-potting – Training – Pruning and Pinching (Shoot, leaf and root) – Watering – manuring – Defoliation – Mame Bonsai.

***References text books***

* Bose, Chowdhury and Sharma.1991.Tropical Garden Plants in colour .Horticulture and allied publishers, 3D Madhab Chatterjee street Kolkata. K.V.Peter.2009
* .Ornamental plants. New India publishing agency, Pitampura, New Delhi. Richard Bird. 2002. Flowering trees and shrubs. Printed in Singapore by Star Standard Industries pvt. Ltd.
* Bimaldas Chowdhury and Balai Lal Jana.2014.Flowering Garden trees. Pointer publishers, Jaipur. India. Arora, J.S. 2006. Introductory Ornamental Horticulture.
* Kalyani Publishers, Ludhiana Randhawa, G.S. Amitabha Mukhopadhyay, 2004. Floriculture in India. Allied Publishers Pvt. Ltd., New Delhi. Bose, T.K. Mukherjee, D. 2004. Gardening in India. Oxford & IBH Publishers.
* Chadha, K.L. and Chaudhary, B. 1986. Ornamental Horticulture in India. Publication and Information division. ICAR, New Delhi.

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