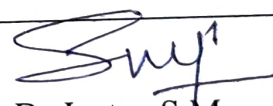


Teaching Plan
T.Y.B.Sc. Botany [Semester - V]
Course Category –Minor Courses (MN)
Course Code – BOT-342-MN-T
Course Title: Nursery Management, Landscape Designing and Gardening
AY-2026-27

Sr. No.	Month	Topic
1	AUG-26	CREDIT I – Nursery Management 15 L 1.Introduction and Infrastructure of Nursery 1.1 Definition, objectives, scope, and types of nurseries. 1.2 Site selection and layout for a nursery site - Allocation of space for different activities. 1.3 Importance and design of polyhouses, net houses, mist chambers, and cold frames. 1.4 Types of potting media - soil, coco peat, perlite, vermiculite, sphagnum moss 1.5 Sterilization of media 1.6 Types of containers required in nursery management 04 2.Plant Propagation Techniques 2.1 Sexual Propagation: Seed viability, seed dormancy - types and breaking methods; seed treatment, and sowing techniques. 2.2 Vegetative/Asexual Propagation: Cuttings - root, stem, leaf; Layering - simple, air layering/gootee; Grafting - approach, veneer, cleft; and Budding - T-budding, patch budding. 2.3 Micropropagation: Brief introduction to commercial tissue culture applications in nurseries.
2	Sep-26	3.Nursery Operations and Maintenance 3.1 Pruning, training, repotting, and hardening of plants. 3.2 Irrigation and Nutrition: Types of irrigation – drip and sprinkler; water management; application of organic manures and inorganic fertilizers. 3.3 Common nursery pests, fungal, and bacterial diseases. 3.4 Integrated Pest Management (IPM) and safe use of agrochemicals. 4.Economics and Marketing 4.1 Management: Cost analysis, budgeting, and essential record-keeping in nursery business. 4.2 Marketing: Supply chain management, packaging of plants, marketing strategies, and exploring online retail platforms. 02 CREDIT II: Landscape Designing and Gardening 15 L 5.Introduction and Principles of Landscaping

		5.1 Definition, scope, and objectives of landscape architecture. 5.2 Role of a botanist/horticulturist in landscaping. 5.3 Core Principles of landscaping: Unity; balance - symmetrical and asymmetrical; proportion; rhythm; focal point/accent; and harmony. 5.4 Colour Theory in landscaping.
4	OCT-26	6.Elements of Landscape Design 6.1 Soft Elements: Trees - Avenue, Shade, Flowering; Shrubs; Climbers; Creepers; and Ground covers - Palms, Ferns, and Cacti/succulents. 6.2 Hard Elements: Paths, walkways, fences, pergolas, trellises, arches, and water features – fountains and ponds. 6.3 Lawn Management: Selection of grass species; Site preparation; Planting methods - Turfing, Dibbling, Sprigging; and maintenance - Mowing, Weeding, and Rolling. 05 7.Types of Gardens and Special Gardening 7.1 Garden Styles: Features of Formal (e.g., Mughal, Persian), Informal (e.g., English, Japanese), and Free-style gardens. 7.2 Specialized Gardens: Terrace/Roof gardens, Vertical gardens (green walls), and Rock gardens. 7.3 Indoor Gardening: Selection of indoor plants, light and humidity requirements, Bonsai, Terrariums, and Kokedama.
8	NOV	8.Execution and Maintenance 8.1 Irrigation required for landscaping. 8.2 Maintenance and management of landscape plants. Revision and Assignment

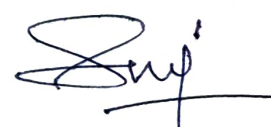


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