

Course Outcomes and Course Content

Semester	I
Paper Code	BOOE-1
Paper Title	Gardening and Landscaping Technology
Number of teaching hours per week	03
Total number of teaching hours of theory per semester	45
Number of theory credits	03

Course Objectives:

- The course will provide basic knowledge as well as recent advances in gardening and landscape designing.
- Part of the course will be dealing with selection and use of plants and non-plant components in gardening and landscape design.
- This course is considered as an important skill development programme needed for every student for fulfillment of life and accomplishments.

Course Learning Outcomes:

At the end of the course-

- Students will learn selection and use of plant and non-plant components in gardening and landscape design.
- Students will gain holistic knowledge of gardening and landscaping as a business enterprise by liaising with different stake holders
- Understanding the importance of gardens with reference to biodiversity conservation and ecosystem sustainability

UNIT	CONTENT	HOURS
	Gardening	
1	Introduction to Gardening: History, scope, objectives and opportunities	2 hours
	Garden and its components: Indoor and outdoor gardens; Living and non-living elements of gardens	8 hours
	Propagating structures; Garden implements and tools; Growing media and manure	4 hours
	Plant propagation techniques: Natural and artificial propagation techniques	2 hours
	Garden plants: Trees, shrubs, climbers and others	

2	Types of gardens: Detailed aspects of terrace garden, vertical garden, home gardens, teepee garden, shade garden, sensory garden, cactus garden, orchidarium and butterfly garden	6 hours
	Gardens and Biodiversity conservation	1 hour
	Principles and techniques of Bonsai, Kokedama and Terrarium	3 hours
Landscaping		
3	Introduction to landscaping: History, scope, objectives and opportunities	2 hours
	Components of landscaping: Plant components and non-plant components; Classification and significance of selection of plants based on functional, visual, cultural, temporal and ecologically sustainable	5 hours
	Planting design for environmental improvement: Planting design for slope retention, soil conservation, windbreaks, shelter-belts and live fence.	4 hours
	Lawn; definition, grass type, creating and maintenance of lawn	2 hours
4	Field visit: Visit to local gardens with reference to gardening and landscape designs, plant types and socio-ecological aspects of gardens; Submission of report for assignment assessment.	6 hours

Suggested Readings:

- Adams, J. (1987). Landscaping with herbs. Timber Press, Inc., Oregon.
- Better Homes and Gardens. (2007). Step-by-Step Landscaping (2nd Edition).
- Bose. T. K. and Choudhary. (1991). Tropical Garden Plants in Colour. Horticulture and Allied Publishers.
- Hackett, B. (1979). Planting Design, McGraw hill.
- Dell, O. E. (2009). Sustainable Landscaping for Dummies, Wiley Publishing, USA.
- Dell, O. E. (2015). How to start a home-based landscaping business. Taylor Trade Publishing.
- Frowine, S. A. (2007). Gardening basics for dummies. Wiley Publishing, USA.
- Ingels, J. E. (2009). Landscaping: Principles & Practices, (7th Edition). Delmar, USA.
- Gopaldaswamiengar (1991). Complete gardening in India. Gopaldaswamy Parthasarathy.
- Mathews, R. (2012). How to design a small garden: Step-by-step landscaping ideas, pictures and plans for planning the perfect small garden. Successful Design Ltd.
- McLaughlin, C. (2013). Vertical vegetable gardening. Alpha Books, USA.
- Robinson, N. (1998). The planting design hand book, Gower Pub.
- Power, P. (2007). How to start your own gardening business. How to Books, UK.
- Simonds. J. O. (1961). Landscape Architecture: the shaping of man's natural environment. London: F.W. Dodge Cooperation.
- Starke, B and Simonds. J. O. (2013) Landscape Architecture: A manual of site planning and design. (5th Edition). McGraw-Hill Professional.
- Walls, A. J. (2020). Landscaping for Beginners: the ultimate step-by-step guide to planning your amazing outdoor space, design walkways, edges, patios, and turn your garden into a beautiful natural landscape. Kindle edition.
- Raines Jamie. (2015). The Lawn Care Entrepreneur - A Start-Up Manual: The Ultimate Lawn Care Business Guide for the Gardening Tycoon. CreateSpace Publishing.