

SRI SARADA COLLEGE FOR WOMEN (AUTONOMOUS)

Reaccredited with 'B++' Grade by NAAC

(Affiliated to Periyar University)

Salem – 636 016

DEPARTMENT OF BOTANY

(DBT STAR COLLEGE SCHEME Sponsored)



ADVANCED DIPLOMA COURSE

IN

GARDENING AND LANDSCAPING

ADVANCED DIPLOMA COURSE IN GARDENING AND LANDSCAPING

(Students admitted from 2020-2021 onwards)

YEAR	Title of the Course	Hours
I	Certificate Course in Gardening	100
II	Diploma Course in Landscaping	100
III	Advanced Diploma in Turfing and Turf Management	100

CERTIFICATE COURSE IN GARDENING

Total Hours : 100

Syllabus

Objectives

Students will be able to

- Understand the basic principles and practices of gardening.
- Enrich the knowledge on the different styles of gardens to create awareness on living and non-living components and special features of garden.
- Inculcate the self-entrepreneurial skill on gardening.

Unit I

Hours: 20

History and importance of gardening and landscaping. Styles of gardens formal – Hindhu and Buddhist, Persian, Moghul, French and Italian. Informal – English, Japanese and its types. Goals of Landscaping, Principles of designing a garden. Garden components – Definition of Softscape and Hardscape elements.

Unit II

Hours: 20

Living components – classification based on purpose: Annuals, Biennials, Perennials, Climbers and Creepers. Hedges, Edges, Borders, Topiary, Shrubbery, Flowers and foliage for carpet bedding and flower bedding,

Unit III

Hours: 20

Selecting plants, displaying plants, Baling and Burlaping, Training and supporting plants, choosing containers. Watering, potting and re-potting, simple propagation methods. First aid for ailing house plants, pest that affects house plants

Unit IV

Hours: 20

Hardscape elements - Non-living components - Fence, Gates, Arches, Pergoals, walk paths, Roads, Paving borders and edges. Water features - canals, pools and ponds, cascades

falls, bridges, fountains. Lights and lamp posts. Garden seat - statue - decks - bird's bath sundials - urns - trellis and other ornamental structures.

Unit – V

Hours: 20

Water garden - floating plants - oxygenating plants - Bog garden - vertical garden – Terrace garden. bottle garden. Bonsai - Plants for bonsai, shapes, methods of Bonsai culture, pruning and bending techniques. Rockery and Green house

References

1. Randhawa, G.S and A. Mukhapadhyay. 1996. *Floriculture in India*. Allied Publishers Private Ltd.,
2. Kumar, N. 1986. *Introduction to Horticulture*. Rajalakshmi publications - Nagercoil.
3. Richard, G. 1988. *House plants*. Dorling Kindersley Limited, London.
4. George, A. 2002. *Horticulture Principles and Practices*. Second Edition, Prentice – Hall of India Private Limited, New Delhi.
5. James, U. C. 1978. *Foliage House Plants* .Time - life Books.
6. Dey, S.c. 2006 . *Bonsai - An Art of Miniature Plant Culture*. Bharat Printers, Jodhpur.
7. Deena ,B. 2004. *Practical Gardening*. Parragon, Publications, UK.

DIPLOMA COURSE IN LANDSCAPING

Total Hours: 100

Syllabus

Objectives

Students will be able to

- Understand an art of landscaping to form a beautiful setting for a building.
- Create a joyful environment around us.
- Promote creativity and aesthetic sense of students in landscaping.
- Instil the knowledge in the branch of fascinating horticulture.
- Make on - site analysis, designing with garden elements and principles and designing landscape.

Unit – I

Hours: 20

Principles of Designing and Design elements

Fundamental Principles of Landscape designing - Element of design - Form- colour and texture, Balance, rhythm and line. Scale or proportion, focalization – simplicity categories of landscaping - Residential, public, commercial - Recreational.

Unit – II

Hours: 20

Site Analysis and Designing

Planning a Residential Landscape: Designing consideration, assessment of the house owner's needs, site analysis, preliminary design; Planning a non-Residential Landscape - school grounds, college campuses, parks and recreational areas, Urban centres, shopping centres.

Unit – III

Hours: 20

Factor Analysis in the Landscape

Selecting Plants - climate, soil reaction (pH), sunlight, feature at maturity, maintenance, level, customer preference; functional uses of plants in the landscape - privacy from adjoining property - climate moderation, glare reduction, wind breaks and outdoor rooms.

Unit - IV**Hours: 20****Plants in the landscape**

Selected trees for the landscape – Using trees in the landscape – Installation of shrubs and using shrubs in the landscaping – Role of the bulbs, corms, tubers and rhizomes, in the landscape and using climbers in the landscape.

Unit – V**Hours: 20****Construction of landscape elements**

Preparing planting plants – plant arrangements in the landscape, projected cost – Landscape construction: Preparing site modification – Terrain, drainage, subsurface irrigation and soil fertility. Xeriscaping.

References

1. Randhawa, G.S and A. Mukhapadhyay. 1996. *Floriculture in India*. Allied Publishers Private Ltd.,
2. Kumar, N. 1986. *Introduction to Horticulture*. Rajalakshmi publications - Nagercoil.
3. Richard, G. 1988. *House plants*. Dorling Kindersley Limited, London.
4. George, A. 2002. *Horticulture Principles and Practices*. Second Edition, Prentice – Hall of India Private Limited, New Delhi.
5. James, U. C. 1978. *Foliage House Plants*. Time - life Books.
6. Dey, S.c. 2006 . *Bonsai - An Art of Miniature Plant Culture*. Bharat Printers, Jodhpur.
7. Deena ,B. 2004. *Practical Gardening*. Parragon, Publications, UK.

ADVANCED DIPLOMA COURSE IN TURFING AND TURF MANAGEMENT

Total Hours : 100

Syllabus

Objectives

Students will be able to

- Do Landscape Designing
- Design and maintain lawns.
- Do Turf grass production.
- Manage Turf Field

Unit-I

Hours: 20

Turf Industry and Grasses

Turfing; Definition - importance and scope of Turfing, Species of grasses - varieties.

Unit – II

Hours: 20

Growth and Development of Grasses

Growth and development of turf grasses, factors affecting growth – temperature, light, humidity, soil and water for best quality, suitability of grasses to various conditions.

Unit-III

Hours: 20

Site selection and Layout

Site selection, evaluation and management of edaphic factors, Media amendments – land preparation, pre emergence weed management - Methods of establishment of turf - Propagation and planting of different lawns - home lawn and industrial turf.

Unit – IV

Hours: 20

Turf Management

Weed management, nutrition management - types of fertilizers, methods of applications. Deficiency symptoms, irrigation practices, methods of mowing. Integrated Pest Management.

Unit-V

Hours: 20

Care and Maintenance of Equipments

Lawn mowers; types, advantages and disadvantages, operation principle and management, seeders - Fertigation assembles, problems and management - Thatching and Thatch removers – Equipments for modular turf.

References

1. Beard, J.B. 1973. *Turfgrass: Science and culture*. Agro Botanica, Jodhpur.
2. Bose, T.K. and D. Mukharjee. 1977. *Gardening in India*, Oxford and IBH Publication. Co.in . Kolkatta.
3. Chandha, K.L. 1986. *Ornamental horticulture in India*. ICAR, Krishi Bhavan, New Delhi
4. Gopalasamy Iyyengar, 1970. *Complete gardening in India*. Kalyan Printers, Bangalore.