

ASC Course: 03



Vidya 2Prasarak Mandal's
**Advanced Study
Center**



Syllabus for

Programme: P. G. Programme

Course: Landscape and Gardening

[Initiated in 1996 – 1997; 1st Updating in 2016 – 2017]

2nd Updating in 2019-2020

3rd updating with effect from

academic year 2020 – 2021

Course will be on Hybrid mode

Theory Online Practical offline

Post - Graduation Programme in Landscape and Gardening

Preamble

Post Graduate programme in Landscape and Gardening conducted by VPM's Advanced Study Centre is a part time, evening programme which can be easily completed by the people who are already employed or the fresh upcoming students. The programme is designed in such a way that the student after completing the course can get job in big hotels, or in big housing complex, row houses, farm houses, industries for maintaining their gardens or can be an entrepreneur having the big business of nursery or having his own consultancy. This is a very much upcoming field in India which has tremendous scope for monitory returns.

Keeping the advances in this field in mind the syllabus is modified accordingly. It deals with Organic Vegetables growing in farms or even in window seals keeping its commercial importance in view. And also Commercial cultivation of flowers as it has recently turned out to be a subject of great interest as it ensures quick monetary gains and above all adds to the beauty of the nature.

Medicinal and aromatic plants have been a source of revenue since past and their importance is increasing these days and the study of same is added in the syllabus. Cultivation of such plants, taking care by using organic pesticides adds valu to the garden.

Landscape designing is a very much upcoming field, Functional uses of garden design, home landscaping, school garden, urban, state and national parks. Industrial landscaping, roadside planting, rock gardens, lawns have been included in landscape gardening. Besides, the students are prepared in the techniques of Bonsai, Ikebana, Composting and Bio-fertilizers.

Greenhouse technology and plant tissue culture are very popular these days and due coverage has been given in the course. Visits to nurseries aim at acquaintance with propagation techniques. Practical in food processing will cover different recipes and storage technology.

The course also includes field visits to various nurseries, gardens, and even landscape sites. This adds to the knowledge of practical implementation of the course. We also offer Internship and suggest the availability of jobs.

Successful completion of theoretical and practical aspects of the course will ensure upgradation of knowledge about horticulture to the extent of offering consultancy to absentee landlords and self-employment in any of the topics covered in the syllabus.

Eligibility: Open to All

Duration: 9 Months (Two days/Five hours a week)

Course will be on Hybrid mode

Theory Online Practical offline

Syllabus and Question Paper Pattern of Course : Landscape and Gardening

Course Code	Course Title	No. of lectures	Credits
ASCLG01	Plant morphology and Horticulture	45	4
ASCLG02	Nursery and lawn management and Entrepreneurship development	45	4
ASCLG03	Landscaping and Gardening	45	4
ASCLGP1	Practical Training I	30	4
ASCLGP2	Practical Training II	30	4
ASCLGP3	Dissertation	40	4
ASCLGP4	Field Visit	40	4
Total Credits		275	28

Course Code	Course Title	Credits	No. of lectures
ASCLG01	Plant morphology and Horticulture	4	
<i>Unit I: Plant morphology</i>			
Morphology of plants			
Habit and Habitat			15
Introduction of plant taxonomy			
<i>Unit I : Basics in general plant physiology</i>			
Plant water relation			
Plant growth			15
Photosynthesis, plant nutrition			
<i>Unit III: Horticulture and propagation practices</i>			
Selection of plant species in Horticulture			
Identification of ornamental plants			15
Propagation of ornamental flowers			

Course Code	Course Title	Credits	No. of lectures
ASCLG02	Nursery and lawn management and Entrepreneurship development	4	
<i>Unit I: Nursery Management, Production</i>			
Nursery Management			
Plant protection in Ornamental crops Nutrient deficiency in plants			15
<i>Unit II: Entrepreneurship Development</i>			
Poly house Technology			
Mushroom Cultivation			15
Floral decoration and			
<i>Unit III: Lawn development and farmhouse management</i>			
Making of lawn			
Making of artificial lawn			15
Farm house management			

Course Code	Course Title	Credits	No. of lectures
ASCLG03	Landscaping and Gardening	4	
Unit I: Introduction to Landscape and Elements in Landscaping Landscape Designing Elements of Landscape: Hardscaping Lighting Design Streetscaping Aqua scaping Irrigation. Vertical walls			15
Unit II : Designing of a Garden Garden Designs Indoor Gardening Specialized Gardens			15
Unit III: Landscape software's, Case studies and Budgeting CAD Software Case studies Budget and estimation (Hardscaping and soft scaping)			15

Course Code	Course Title	Credits
ASCLGP1	Practical Training I	4
<ul style="list-style-type: none"> • Plant Morphology (root, stem, leaf, inflorescence, flowers, fruits & seeds) • Identification of, Annuals, Perennials, Seasonals, • Plant tissues • Seed Germination techniques for tree species • Identification of common garden weeds and their control methods • Identification of insect, fungal, bacterial and viral pest of ornamental plants and their control methods • Determination of Soil texture properties (temp, pH and texture) • Technique of potting and repotting • Preparation of Hanging basket • Propagation of plants by cutting: Soft stem, semi hard and hard wood, Layering, Grafting and Budding • Demonstration of Vermi-composting and Bio-composting • Flower arrangement and Ikebana • Types of Bonsai and technique • Mushroom cultivation 		

Course Code	Course Title	Credits
ASCLGP2	Practical Training II	4
<ul style="list-style-type: none"> • Identification of Physical Elements in Landscape (Hardscape) • Identification of plants- ground cover plants and bulbous plants, hedge and edge, pergolas, arches, Palms , foliage and flowering Shrubs , foliage and flowering, climbers and ramblers, Lawn grasses and Plantation of lawn • Identification of Garden tools and Implements. • Landscape designing of Residential area and Public Garden • Designing of Water garden (Lotus and Water Lilies), Rock Garden • Estimate of given garden design- BOQ preparation • Designing of Tray Landscape • Designing of Terrarium • Reading of CAD Drawings • Case study based on landscape design • Field notebook comprising reports of all field visits. 		

All practical should be entered in the journal. Only candidates with certified journal will be allowed for examination.

Field visits:

Four Field visits (1 long visit, 3 short visits) will be conducted (Students will have to bear their own expenses for the same)

Field Visits that can be taken from among following or such similar places

1. One long two day visit to Dapoli krishi vidyapeeth/ or such similar place.
2. One day visit to BKC on Terrace landscaping and designing.
3. One day visit to Any Nursery like Go green, Ganpatrao chavan.
4. One day visit to Hiranandani Powai garden for contour and podium landscape.
5. One day visit to Sagar Upvan for plant identification and their use in landscaping.
6. One day visit to Dattaji Salvi Udyan for plant identification and their use in landscaping (optional).

Dissertation:

Duration: 3 months

Based on any subtopic from the syllabus or related to horticulture and landscaping under the guidance of expertise from within or outside the institution.

Guidelines for Dissertation:

1. Students have to select their topic in consultation with the guide, who can be any faculty teaching the course or expert in the subject. (If the expert is not a teaching faculty of the course, biodata of expert is to be submitted in office of Advanced Study Center)
2. The outline of the dissertation (about 2/3 pages – 400/600 words) signed by the student and guide to be submitted on or before 31st December in office of Advanced Study Center
3. The student has to collect the data, relevant information, photographs and references in consultation of guide.
4. The dissertation in the hard bound format based on this data has to be submitted on or before 31st March to in office of Advanced Study Center
5. Dissertation book should have certificate page signed by their respective guides and coordinator of the course.
6. Final power point presentation should be given by students at the time of examination.
7. Dissertation will comprise 75 Marks.

Format for submission of outline for dissertation

Front page

Title of the topic:

Place of work: VPM's Advanced Study Centre.

Name of the student:

Name of the guide:

Date of submission:

Sign of guide

Sign of student

Details: Introduction, Review of Literature, Material & methods, Hypothesis, Results & Discussions, Conclusions, References.

Field: Note book

Students have to maintain a field note book along with the photos at places visited. The observations have to be noted in a field note book/ register. Diagrams/ drawings can be drawn or photographs can be stuck. Field book has to be presented at the time of practical.

Examination based on which viva voce will be conducted. (25 marks)

Reference books:

1. A handbook of Landscape: CPWD
2. Horticulture in India: D. C. Bansil
3. Complete gardening in India: Gopaldaswamiengar
4. Floriculture in India: G. S. Randhawa
5. Handbook of Agriculture: ICAR
6. Ornamental gardening in India: Misra
7. Home gardening: P. P. Trivedi
8. Horticulture Nursery Management: YCMOU

Evaluation Scheme

Theory Examination: Suggested Format of Question paper

Duration: 3 Hours

Total Marks: 100

- All questions are compulsory

Q. 1	Based on Unit I	25
	OR	
Q. 1	Based on Unit I	25
Q. 2	Based on Unit II	25
	OR	
Q. 2	Based on Unit II	25
Q. 3	Based on Unit III	25
	OR	
Q. 3	Based on Unit III	25
Q. 4	Based on Unit I, II, III	25
	OR	
Q. 4	Based on Unit I, II, III	25

Each question may consist of sub questions of following types

Full length question,	15 Marks
Short answer question	10 Marks
Short note questions	5 Marks
Objectives	2 Marks

Total marks of Theory Examination

Course Code	Maximum Marks
ASCLG01	100
ASCLG02	100
ASCLG03	100
TOTAL	300

Practical Examination

Course Code	Details	Practical	Journal	Viva	Total
ASCLGP1	Practical – I	80	10	10	100
ASCLGP2	Practical – II	80	10	10	100
ASCLGP3	Dissertation	---	---	---	75
	Field Note Book				25
Total					300

Total of Theory Examination

300 Marks

Total of Practical Examination

300 Marks

Grand Total

600 Marks

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