

ASC Course: 03



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



Syllabus for

**Programme: P. G. Programme
Specific Programme: Landscape
and Gardening**

[Initiated in 1996 – 1997; 1st Update in 2016 – 2017; 2nd Update
in 2019-2020]

**3rd update with effect from
academic year 2020 – 2021**

**Course will be conducted 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 monetary 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 value 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 XII Pass Onwards

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

Course Fees: Rs. 25,000/-

Course Delivery: Course will be conducted in Hybrid mode. 80% on line and Practical offline

Programme Outcome:

- The programme will fill the gap of knowledge as per requirement of industry.
- The programme will provide global level advanced and skill oriented deep knowledge to the learners for survival in global competition.
- The knowledge will improve the employability of the learner which can fetch good job opportunity.
- For those who are already in service will provide a good platform to upgrade their skills.
- The learner will get practical experience and will be updated about recent knowledge in the field.
- The programme is also designed for making the learner capable for self-employment or startups or own consultancy.

Programme Specific Outcome:

- Understanding the basics of landscaping
- Developing the basic skills in different types of landscaping
- Understanding the science of gardening
- Developing the skills and knowledge of different types of gardens
- Developing the skills of establishing and maintaining nursery

Syllabus and Question Paper Pattern of Course: Landscape and Gardening

Course Code	Course Title	No. of lectures	Credits
ASCLGT1	Plant morphology and Horticulture	45	4
ASCLGT2	Nursery and lawn management and Entrepreneurship development	45	4
ASCLGT3	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
ASCLGT1	Plant morphology and Horticulture	4	
Course outcome:			
<ul style="list-style-type: none"> • Learner will understand plant morphology and can differentiate in different parts of the plant • Learner can understand the habit and habitat of plants, which will be useful for selection of plants • Learner will get knowledge of basic taxonomy of plants • Learner will gain knowledge in basic plant physiology • Learner will be able to identify plant sps for horticulture • Learner will be able to understand methods of plant propagation 			
<i>Unit I: Plant morphology</i>			15
<i>Unit II: Basics in general plant physiology</i>			15
<i>Unit III: Horticulture and propagation practices</i>			15

Course Code	Course Title	Credits	No. of lectures
ASCLGT2	Nursery and lawn management and Entrepreneurship development	4	
Course outcomes:			
Learner will learn/Get knowledge/understand			
<ul style="list-style-type: none"> • the techniques to develop and maintain nursery • different plant pathogens and their control • the effect of nutrient deficiency in plants • poly house technology • Mushroom cultivation • science of Bonsai making • Lawn maintenance and farm house garden management 			
<i>Unit I: Nursery Management, Production</i>			15
<i>Unit II: Entrepreneurship Development</i>			15
<i>Unit III: Lawn development and farmhouse management</i>			15

Course Code	Course Title	Credits	No. of lectures
ASCLGT3	Landscaping and Gardening	4	

Course Outcome:

Learner will learn/Get knowledge/understand:

- Basics of Landscaping
- Basic elements of Landscaping and their designing
- Designing of gardens, Specialized gardens,
- Landscape soft wares like CAD

<i>Unit I: Introduction to Landscape and Elements in Landscaping</i>	15
<i>Unit II: Designing of a Garden</i>	15
<i>Unit III: Landscape software, Case studies and Budgeting</i>	15

Course Code	Course Title	Credits
ASCLGP1	Practical Training, I	4

- 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.

Course Code	Course Title	Credits
ASCLGP3	Dissertation	4
<p>Duration: 3 months Based on any subtopic from the syllabus or related to Applied Analytical Chemistry under the guidance of expertise from within or outside the institution.</p> <p>Guidelines for Dissertation:</p> <ol style="list-style-type: none"> 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 Advanced Study Centre and approval to be taken from Head, Advanced Study Centre.) 2. The outline of the dissertation (about 2/3 pages – 400/600 words) signed by the student & guide to be submitted on or before 31st December to Advanced Study Centre. 3. The student has to collect the data, relevant information, photographs, 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 Advanced Study Centre. 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:

Signature of guide

Signature of student

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

Course Code	Course Title	Credits
ASCLGP4	Field visits	4

Students will have to bear their own expenses for the Field visits.

Five Field visits (1 long visit, 4 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 Velneshwar/ 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

Industrial visit: Note book -

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

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

Reference books:

- I. Landscape Graphics by Grant W Reid FASLA. Watson Guptill publications.
- II. Form and fabri by Catherine Dee. Taylor & Francis
- III. Time saver standards for Landscape Architecture by Nicholas T. Dines & Charles W. Harris. Mcgraw hill publishing company.
- IV. The Tropical Look by Robert Lee Riffle. (encyclopedia of landscape plants).
- V. Some beautiful Indian climbers and shrubs by Bor and Raizada BNHS publication.
- VI. Creating Bonsai Landscapes by su chin ee
- VII. College Botany Vol I by Gangulee, Das and Datta, Published by J. N. Sen on behalf of New Central Book Agency 8/1 Chintamoni Das Lane, Calcutta-9 [INDIA]
- VIII. Some websites for plant morphology the fact factor.com , byjus.com
- IX. Floriculture in India by G. S Randhawa, A Mukhopadhy, Allied publishers.
- X. The book of Indian Trees by K.C Sahni, BNHS publication
- XI. Floriculture and Landscaping by T.K Bose, R. G Maity, R. S Dhua, P. Das, Naya Prokash Publications.
- XII. Flowering trees and shrubs in India by Cowen D. V, Thacker Spink Publication.
- XIII. A handbook of Landscape: CPWD
- XIV. Horticulture in India: D. C. BansilC
- XV. Complete gardening in India: Gopalaswamiyengar
- XVI. Floriculture in India: G. S. Randhawa
- XVII. Handbook of Agriculture: ICAR
- XVIII. Ornamental gardening in India: Mishra
- XIX. Home gardening: P. P. Trivedi
- XX. Horticulture Nursery Management: YCMOU

Evaluation Scheme

Evaluation will be based on External and Internal examination in the ratio of 60:40 (External 60% weightage and Internal 40% weightage)

External:

Theory Examination: Suggested Format of Question paper *

Duration: 3 Hours

Total Marks: 60

- All questions are compulsory

Q. 1	Based on Unit I	15
	OR	
Q. 1	Based on Unit I	15
Q. 2	Based on Unit II	15
	OR	
Q. 2	Based on Unit II	15
Q. 3	Based on Unit III	15
	OR	
Q. 3	Based on Unit III	15
Q. 4	Based on Unit I, II, III	15
	OR	
Q. 4	Based on Unit I, II, III	15

- The pattern may differ if we have to conduct on line examination depending on the situation

विद्या प्रसारक मंडळ
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ESTD. 1996

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

Internal Examination: The internal examination will consist of various assignments which will include presentation of given topic, seminar on given topic, writing the given assignment, attending and reporting seminars and conferences, field experience, writing review articles, Review of books, publishing research paper, presenting research paper, project, participating in conference at organizational level, quizzes, brain games. And many such types. Depending upon the scope marks can vary.

There will be minimum one assignment on each unit of each course and two assignments on ASCLG04. (Thus total 11 assignments) The assignments need to be submitted in the given time limit. Each assignment will be of 10 marks and total marks of assignments will be converted to 40% marks.

Total marks of Theory Examination

Course Code	External	Internal	Maximum Marks
ASCLG01	60	40	100
ASCLG02	60	40	100
ASCLG03	63	40	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
ASCLGP4	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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