

Value Added Course:
“Gardening and Landscape designing”

Organized by

Department of Botany

Year

2020- 2021

Gardening and Landscape designing

Department of Botany

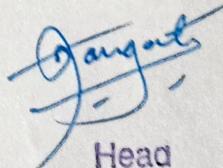


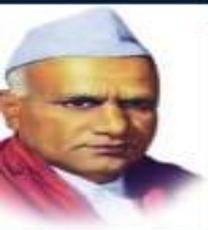
Vivekanand College, Kolhapur. (Autonomous)
Department of Botany
Value Added Course: "Gardening and Landscape design"
2020-2021

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Head
Department of Botany
Vivekanand College
Kolhapur



VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)



DEPARTMENT OF BOTANY

VALUE ADDED COURSE

GARDENING AND LANDSCAPE

DESIGNING

REGISTER NOW

CONTACT:

9420778093,

9420494379



COURSE OUTCOME:

STUDENTS WILL KNOW BASIC PRINCIPLES OF GARDENING AND LANDSCAPE DESIGNING

APPLY PRACTICAL KNOWLEDGE FOR GARDENING AND LANDSCAPE DESIGN

"Education for Knowledge, Science and Culture."

– Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's Kolhapur

VIVEKANAND COLLEGE, KOLHAPUR. (AUTONOMOUS)

Department of Botany

1) Name of the Course:

"Gardening and Landscape design"

2) Objective:

1. Make sure the farmer receives a sufficient financial return.
2. To increase understanding of plant identification and usage.
3. To create the student awareness about conservation and sustainable use of plants..
4. Extend knowledge on Maintenance, Watering Schedule / Drainage, Weeding, Hoeing and Protection.

3) Duration of the course: 3 months

4) Expenditure: 30,000/

5) Intake capacity: 30 students

6) Exam Pattern: Theory and Practical

1) Theory – 35 (hr.)

2) Practical - 20 (hr.)

7) Course Outcomes: On completion of the course, students will be able to:

1. Understand the concept of gardening.
2. Know the branches of horticulture.
3. Understand the concept of landscaping.
4. Know different methods of pruning and weed management.

8) Syllabus:



Paper I: Gardening and Landscaping

35 hr

Unit I: Branches of Horticulture, Horticulture as a career, History of Gardening, Types of Gardening, Garden implements, Potting and repotting, Bonsai.

Unit II: Planting: Planting methods used for different types of plants including annuals, perennials, evergreen and deciduous plants; influence of environmental factors on planting techniques.

Unit III: A) Water Management: Irrigation systems – characteristics, advantages and disadvantages; drainage systems; water-wise gardening.

B) Pruning: Pruning techniques; importance of pruning to growth, flowering and Fruiting, pruning tools.

C) Weeds: Identifying common weeds; characteristics of weeds; control techniques; herbicides.

D) Pests and Diseases: Identifying common insect and disease problems; control methods; Integrated Pest Management; pesticides.

E) Lawns: Turf grass varieties; laying a new lawn; cultural techniques including watering, fertilizing, topdressing, aerating, pest and disease control.

Unit IV: Landscaping: Stages of landscaping; types , essential elements, factors affecting design procedures; preparing plans; selecting plants for specified sites.

9) Practical Syllabus:

20 hr.

- 1) Propagation techniques: Asexual and sexual propagation.
- 2) Study of plants and Indoor air quality
- 3) Garden Design and selection of plant material
- 4) Landscape design
- 5) Rain water harvesting technique
- 6) Organic gardening



- 7) Plant material suitable for landscape
- 8) Potting and repotting
- 9) Bonsai Preparation
- 10) Garden Implements
- 10) **Exam pattern:**
 - a) Theory: 50 marks (Multiple choice questions)
 - b) Practical: 50 marks

Suggested Readings:

1. K. S. Gopaldaswamiengar, Complete Gardening in India, (1935), Hosali Press, Bangalore.
2. N. L. Bor and M. B. Raizada, Some Beautiful Indian Climbers and Shrubs, Bombay Naturl History Society.
3. D. V. Cowen A, P. Benthall, Trees of Calcutta, Thacker Spink & Co, Calcutta.
4. Flowering Trees and Shrubs in India, Cowen D. V., Goode Hardcover (1957), 3rd edition.
5. A handbook of Landscape by Directorate General, Central Public Works Department, New Delhi. (2013)



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– Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's, Kolhapur

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR.

Date: 03/04/2021

NOTICE

Department of Botany is going to organize the third Add On Course (COC) titled “ **Gardening and landscape design** ” in second term which begins on 5th April 2021 (Academic year 2020-2021). Interested students can approach to Botany department for the enrollment for said course.


Head
Department of Botany
Vivekanand College
Kolhapur



Department of Botany

COC "Gardening and Landscape Design"

Sr. No	Name of the Student	Class	Mobile No.
1	Anirudh Krishna Wadeyar	B.Sc III	7448225966
2	Aishwarya Bhagwan Sasne	B.Sc III	9881934600
3	Abhishek Narsingrao Kesarkar	B.Sc III	9657388427
4	Makarand Mohan Gokhale	B.Sc III	7066383366
5	Pallavi Uday Nalawade	B.Sc III	9970025955
6	Sapna Bharat Sase	B.Sc III	8830927894
7	Komal Rajkumar Parit	B.Sc III	9370780764
8	Akanksha Ashok Patil	B.Sc III	7745009233
9	Siddhi Milind Chavan	B.Sc III	7447317323
10	Vrushabh Sunil Hundekari	B.Sc III	9881038474
11	Mitali Yashwant Kubade	B.Sc III (Biotech)	9307181956
12	Minakshi Chandrashekar Sutar	B.Sc III (Biotech)	7264049184
13	Ketaki Jaywant Sutar	B.Sc III (Biotech)	7020150918
14	Sushant Sardar Patil	B.Sc III (Biotech)	7249328872
15	Neha Namdev Kalantre	CBZ	7744898671
16	Shrawani Sudhakar Desai	CBZ	8788674523
17	Shirish Sanjay Kamble	BZMi	9322355295
18	Shingare Utkarsh Rajkumar	CBPp	8605401655
19	Siddhi Ananda Balugade	BZMi	9373670433
20	Pratiksha Ananda Kamble	CBPp	8888720931
21	Akanksha Rajaram Salavi	CBPp	9175024089
22	Harshada Hambirrao Patil	CBPp	9923949116
23	Sonali Mahadev Salavi	CBPp	9529858499
24	Shewta Santosh Patil	BZMi	9172982294
25	Karina Suraj Bagade	BZMi	9975441864
25	Snehal Dipak Mane	BZMi	8421577127
27	Rutwik Subhash Patil	BZBio	8378052425
28	Neha Amol Kolekar	BZBio	9890816961
29	Harshada Pradeep Wadikar	BZBio	8788541396
30	Shrutika Satish Patil	BZBio	9579707844
31	Kshitija Appaso Kharade	BZBio	9146378716
32	Harshvardhan D. Deshmukh	CBPp	9511691870
33	Tanaya Snehjeet Ayarekar	BZBio	9823502757
34	Patil Gauri Devba	BZBio	8308539793
35	Siddhi Machhindra Davari	BZBio	9130275105
36	Sakshi Sachin Sardar	BZBio	9172140977
37	Prachi Rajkumar Kadam	CBZ	9130801436
38	Saniya Rajvardhan Sawant	BZMi	8888904112
39	Shamita Shital Patil	BZMi	9595012271

Fee - 500 Rs. per student

$$500 \times 39 = 19,500/-$$



[Signature]
Head

Department of Botany
Vivekanand College
Kolhapur

Department of Botany
COC : " Gardening and Landscape Design "
Student List

Sr. No.	Name of Student	Class	Mobile No	Signature
1	Anirudh Krishna Wadeyar	B.Sc.III	7448225966	
2	Aishwarya Bhagwan Sasne	B.Sc.III	9881934600	
3	Abhishek Narsingrao Kesarkar	B.Sc-III	9657388427	
4	Makarand Mohan Gokhale	BSc-III	7066383366	
5	Pallavi Uday Nalawade	Bsc.III	9970025955	
6	Sapna Bharat Sase	Bsc.III	8890927894	
7	Komal Rajkumar Parit	Bsc.III	9370780764	
8	Akanksha Ashok Patil	BSC.III	7745009233	
9	Siddhi Milind Chavan	BSc.III	7447317323	
10	Vrushabh Sunil Hundekari	BSc-III	9511014342	
11	Mitali Yashwant Kubade	Bsc.III Biotech	9307181956	
12	Minakshi Chandrashekar Sutar	BSc.III Biotech	9579259957	
13	Ketaki Jaywant Sutar	BSc.III Biotech	7020150918	
14	Sushant Sardar Patil	Bsc.III Biotech	7249328872	
15	Neha Namdev Kalantre	BSC II	7744898671	
16	Shrawani Sudhakar Desai	BSC II	8788674523	
17	Shirish Sanjay Kambale	B.Sc.II	9822355295	
18	Shingare Utakarsh Rajkumar	B.Sc.II	8605401655	
19	Siddhi Ananda Balugade	B.Sc.II	9373670433	
20	Pratiksha Ananda Kamble	B.Sc.II	8888720931	
21	Akanksha Rajaram Salavi	B.Sc.II	9175024089	
22	Harshada Hambirrao Patil	B.Sc.II	9923949116	
23	Sonali Mahadev Salavi	B.Sc.II	9529858499	
24	Shewta Santosh Patil	B.Sc.II	9172982294	
25	Karina Suraj Bagade	B.Sc.II	9112938815	
26	Snehal Dipak Mane	B.Sc.II	8421577127	
27	Rutwik Subhash Patil	BSC.II	8376052425	
28	Neha Amol Kolekar	BSC.II	9890816961	
29	Harshada Pradeep Wadikar	Bsc.II	9788541396	
30	Shrutika Satish Patil	Bsc.II	9579707844	
31	Kshitija Appaso Kharade	BSC.II	9146378710	
32	Harshvardhan Diliprao Deshmukh	BSc.II	9511691870	
33	Tanaya Snehjeet Ayarekar	B.Sc.II	9823502757	
34	Patil Gauri Devba	B.Sc.II	8308539793	
35	Siddhi Machhindra Davari	B.Sc.II	9130275105	
36	Sakshi Sachin Sardar	B.Sc.II	9172140977	
37	Prachi Rajkumar Kadam	B.Sc.II	7219269060	
38	Saniya Rajvardhan Sawant	B.Sc.II	8888904112	
39	Shamita Shital Patil	B.Sc.II	9595012271	



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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

Department of Botany

COC : " Gardening and Landscape Design"

Instructions : 1. All question are compulsory

2. Each Question carries two marks

Total Marks : 50

Q. 1. Choose correct alternative.

- 1) The branch deals with the study of vegetable crops is known as -----
a) floriculture b) olericulture c) pomoculture d) gardening
- 2) Pruning is an essential cultural activity in fruit plants because -----
a) To provide proper shape b) To provide strong structure
c) To beautify the plant d) All of the above
- 3) -----tool is widely used for removing weeds.
a) Hoe b) Tillage c) Sickle d) Khurpi
- 4) Bonsai technique is very much famous in ----- country.
a) India b) Japan c) Pakistan d) England
- 5) In ----- propagation, progenies are genetic copies of parent plant.
a) Sexual b) Asexual c) Seed d) None
- 6) ----- plant is more suitable for rock garden.
a) Rose b) Cactus c) Ixora d) Hibiscus
- 7) ----- is a form of overhead irrigation.
a) Drip irrigation b) Sprinkler irrigation c) Center Pivot irrigation d) Terraced irrigation
- 8) Bonsai produce a full grown beauty of plant in a----- form.
a) tall b) miniature c) dwarf d) hanging
- 9) Suckers are present in -----
a) *Chrysanthemum* b) *Cleodendron* c) *Anthurium* d) All of the above
- 10) ----- is a protective covering of material covered on soil surface.
a) Hoe b) Tillage c) Sickle d) Mulch
- 11) Tissue culture technique is based on phenomenon of -----
a) Tissue b) cell c) Totipotency d) Aseptic conditions
- 12) The branch deals with the study of different fruit crops is known as -----.



- a) floriculture b) olericulture c) pomoculture d) gardening
- 13) Mughal garden is form of-----
 a) Formal Garden b) Informal garden c) Wild garden d) Japanese garden
- 14) In fertilization WIN stands for-----
 a) World of Industry b) Weight control information network
 c) Women's information network d) Water insoluble nitrogen
- 15) Watering within----- minutes of laying a new lawn is important.
 a) 30 b) 60 c) 20 d) 50
- 16) The water utilizable by plants is available in soils mainly in the form of -----
 a) Hygroscopic water b) Chemical water c) Gravity water d) Capillary water
- 17) ----- garden is an important commercial field in which engineering, art and horticulture are combined to achieve beauty and utility.
 a) Rock b) Kitchen c) Landscape d) organic
- 18) Main Features of English garden is -----
 a) Lawn b) Rockery c) Lanterns d) Border
- 19) Common bermudagrass is -----
 a) Drought tolerant b) Well adapted to sunny areas
 c) Coarse textured d) All of the above
- 20) In English horticulture word was first mentioned by -----
 a) C. Linnous b) E. Bentham c) E. Hooker d) E. Phillips
- 21) ----- is an art of joining the parts of two separate plants so that they will unite and continue to grow as a single plant.
 a) Cutting b) Budding c) Grafting d) Layering
- 22) Nicotine is used in the form of -----
 a) Fumigant b) Dust c) Granules d) E.C.
- 23) Plant suitable for topiary-----
 a) *Tecoma* b) *Duranta* c) *Thunbergia* d) *Clerodendron*
- 24) Organic garden is prepared by ----- fertilizers.
 a) chemical b) synthetic c) organic d) artificial
- 25) Sampling of insect pest by sticky trap comes under-----
 a) Trapping b) Netting c) Extraction d) Knockdown



Department of Botany

COC : " Gardening and Landscape Design " - RESULT (Out of 100)

Sr. No.	Name of Student	Roll No.	Total (Out of 100)	Grade
1	Anirudh Krishna Wadeyar	286	99	O
2	Aishwarya Bhagwan Sasne	287	99	O
3	Abhishek Narsingrao Kesarkar	288	98	O
4	Makarand Mohan Gokhale	289	99	O
5	Pallavi Uday Nalawade	290	90	A+
6	Sapna Bharat Sase	291	88	A+
7	Komal Rajkumar Parit	292	88	A+
8	Akanksha Ashok Patil	293	99	O
9	Siddhi Milind Chavan	294	97	O
10	Vrushabh Sunil Hundekari	295	79	A
11	Mitali Yashwant Kubade	296	95	O
12	Minakshi Chandrashekar Sutar	297	95	O
13	Ketaki Jaywant Sutar	298	99	O
14	Sushant Sardar Patil	299	96	O
15	Neha Namdev Kalantre	300	85	A+
16	Shrawani Sudhakar Desai	301	94	A+
17	Shirish Sanjay Kamble	302	73	B+
18	Shingare Utkarsh Rajkumar	303	65	B+
19	Siddhi Ananda Balugade	304	79	A
20	Pratiksha Ananda Kamble	305	87	A+
21	Akanksha Rajaram Salavi	306	97	O
22	Harshada Hambirrao Patil	307	97	O
23	Sonali Mahadev Salavi	308	91	A+
24	Shewta Santosh Patil	309	91	A+
25	Karina Suraj Bagade	310	88	A+
26	Snehal Dipak Mane	311	95	O
27	Rutwik Subhash Patil	312	78	A
28	Neha Amol Kolekar	313	90	A+
29	Harshada Pradeep Wadikar	314	93	A+
30	Shrutika Satish Patil	315	86	A+
31	Kshitija Appaso Kharade	316	93	A+
32	Harshvardhan Diliprao Deshmukh	317	57	B
33	Tanaya Snehjeet Ayarekar	318	97	O
34	Patil Gauri Devba	319	94	A+
35	Siddhi Machhindra Davari	320	87	A+
36	Sakshi Sachin Sardar	321	90	A+
37	Prachi Rajkumar Kadam	322	96	O
38	Saniya Rajvardhan Sawant	323	98	O
39	Shamita Shital Patil	324	97	O



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VIVEKANAND COLLEGE, KOLHAPUR. (Autonomous)

NAAC Reaccredited : "A" (CGPA 3.24), College with Potential for Excellence by U.G.C., New Delhi
"Star College" by D.B.T. Govt. of India, ISO: 9001-2015

CERTIFICATE

This is to certify that Vrushabh Sunil Hundekari
_____ of _____ has passed the Value Added Course in
'Gardening and Landscape Design'
in the Month of August year 20 21..... The said certificate has been issued to
him/her at the Vivekanand College, Kolhapur.


Co-ordinator


Head
Department of Botany
Head
Department of Botany
Vivekanand College
Kolhapur


Principal
PRINCIPAL
Vivekanand College
Kolhapur