

KONGUNADU ARTS AND SCIENCE COLLEGE

(Autonomous)

Coimbatore - 641 029



Department of Botany Certificate Course - Bonsai

Certificate Courses – Bonsai (Six months)

Semester	Subject Code	Title of the Paper	Instruction hours /cycle	Exam Marks			Duration of Exam (hours)	Credits
				CIA	ESE	Total		
	18CCB101	CC.P.1- Introduction to Bonsai Principles and Techniques	2	25	75	100	3	2
	18CCB102	CC.P.2- Ethics, Values and Marketing of Bonsai	2	25	75	100	3	2
	18CCB1CL	Practical	2	40	60	100	3	2
	18CCB1Z1	Project Report submission	2	20	80	100	3	2
		Grand Total	8			400		8

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1 - Remember; **K2** - Understanding; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate

1. Theory Examination - Part I, II & III

(i) CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments & Record Work	50	60
K4		10	
K5			

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report & Viva voce	60	80
K4		20	
K5			

Components of Continuous Internal Assessment (CIA)

Components			Marks	Total
Theory	CIA I	75	(75+75 = 150/10) 15	25
	CIA II	75		
Assignment / Seminar			5	
Attendance			5	
Practical				
	CIA Practical		25	40
	Observation Notebook		10	
	Attendance		5	
Project				
	Review		15	20
	Regularity		5	

Programme Code: 05	Title: CERTIFICATE COURSE - BONSAI		
Course Code: 18CCB101	1. INTRODUCTION TO BONSAI PRINCIPLES AND TECHNIQUES		
Batch 2018-2019	Hours / Week 2	Total Hours 30	Credits 2

COURSE OBJECTIVES

- To know the latest development in the field of Bonsai.
- To develop skills in the area of designing, styles and making of bonsai.
- To create knowledge on self employment through and entrepreneur skills.

COURSE OUTCOMES

On successful completion of the course, the students will be able to

K1	CO1	Recognize about preliminary techniques about Bonsai.
K2	CO2	Understand the necessary skills to take care and maintain a Bonsai plant.
K3	CO3	Apply knowledge on Bonsai cultivation and marketing.
K3	CO4	Implement the acquired knowledge on commercial applications Bonsai

SYLLABUS

UNIT I: (6 hours)

Introduction - history, aim, scope and importance of Bonsai - Identification and collection of suitable plants for bonsai making.

UNIT II: (6 hours)

Tools, containers, wiring and preparation of media. Designing, Styles and making of bonsai. Training and pruning techniques in bonsai. Irrigation, pest and disease management.

UNIT III: (6 hours)

Styles of Bonsai - Upright Style, Formal Upright, Informal Upright Style, Slanting Style Windswept Style, Broom Style.

UNIT IV: (6 hours)

Cascade Styles of Bonsai - Semi Cascade Style, Formal Cascade Style, Informal or Vertical Cascade Style, Displaying Cascade Style Bonsai.

UNIT V: (6 hours)

Multiple tree styles of Bonsai - Two-Tree and Twin Trunk Style Bonsai. Forest Style Bonsai*. Bonsai with Special Characteristics.

*** Self study**

Teaching Methods

Power Point presentation/Seminar/Discussion/Assignment

TEXT BOOKS

1. Paul Lesniewicz., 1994. Bonsai in your home. Sterling publishing Co, New York.
2. Randhawa, G.S., and Amitabha Mukhopadhyay, 2000. Floriculture in India, Allied publishers, India.

REFERENCES

1. Roy Edwin Biles, (2003). The complete Book of Gardening. Biotech Books, Delhi - 35.
2. Bhattacharjee, S.K. (2006). Advances in Ornamental Horticulture. Pointer Publication, Jaipur.
3. Doesh Beer Singh and Poonam Wazir, (2002). Bonsai - An art. Scientific Publishers, Jodhpur.

MAPPING

PSO CO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	H	H	M	H
CO2	S	M	H	H	M
CO3	H	S	M	H	H
CO4	S	H	M	S	M

S - Strong

H - High

M - Medium

L - Low

Programme Code: 05	Title: CERTIFICATE COURSE - BONSAI		
Course Code: 18CCB102	2. ETHICS, VALUES AND MARKETING OF BONSAI		
Batch 2018-2019	Hours / Week 2	Total Hours 30	Credits 2

COURSE OBJECTIVES

- To know the ethical value of bonsai
- To understand the common and special types of bonsai.
- To recognize the marketing potential of bonsai in India

COURSE OUTCOMES

On successful completion of the course, the students will be able to

K1	CO1	Recognize the traditions and rituals values of bonsai
K2	CO2	Understand the types of commercial and aesthetic types of bonsai
K3	CO3	Implement knowledge on marketing practice of bonsai
K3	CO4	Describe the economic value of bonsai

SYLLABUS**UNIT I: (6 hours)**

Bonsai rules, traditions and rituals - Respect for Nature and conservation - Miniature Bonsai - Developing Miniature Bonsai, Containers and Soil for Miniature Bonsai, Care and Maintenance.

UNIT II: (6 hours)

Special techniques in Bonsai - Driftwood Style, Selecting Material for Driftwood Style Bonsai, Creating Driftwood Style Bonsai and Dead Wood on Bonsai. Root over rock bonsai.

UNIT III: (6 hours)

Collecting, refining and displaying Bonsai - Sources of Material for Bonsai, Collecting Material from the Ground, Buying Material, Propagating Bonsai Material by, Seeds, Cuttings, Dividing, Grafting and Layering.

UNIT IV: (6 hours)

Refining Bonsai, Review the Basic Styles*, Species, Roots, Trunk, Branches and Foliage, Container, Soil and Displaying. Displaying in a Private Collection, Displaying in a Public Exhibit.

UNIT V:**(6 hours)**

Economic importance of Bonsai in tribal livelihood - marketing of Bonsai in ecotourism places. Bonsai - Rehabilitation prospects.

*** Self study****Teaching Methods**

Power Point presentation/Seminar/Discussion/Assignment

Text books

1. Chadha, K.L., 2001. Handbook of horticulture. ICAR, New Delhi.
2. Bhattacharjee, S.K., 2004. Landscape gardening and design with plants. Aavishkar Publishers and Distributors, Jaipur, India.

MAPPING

CO \ PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	H	H	M	H
CO2	S	M	H	H	M
CO3	H	S	M	H	H
CO4	S	H	M	S	M

S - Strong

H - High

M - Medium

L - Low

Programme Code: 05		Title: CERTIFICATE COURSE - BONSAI		
Course Code: 18CCB1CL		Practical		
Batch 2018-2019	Semester I	Hours / Week 2	Total Hours 30	Credits 2

COURSE OBJECTIVES

- To identify the wild plants species for bonsai making.
- To select the suitable tools for bonsai making.
- To prepare the bonsai of market value.

COURSE OUTCOMES

On successful completion of the course, the students will be able to

K3	CO1	Understand the programmes being carried out to conserve species through bonsai techniques
K4	CO2	Investigate the current status of bonsai .
K5	CO3	Implement the acquired knowledge on commercial applications of Bonsai

LIST OF PRACTICALS

1. To know the identification of Plants suitable for making bonsai
2. To know the Identification of tools for making bonsai
3. To know the role fertilizer and its importance for bonsai making
4. To select the suitable plants to make different styles of bonsai
5. To acquire knowledge on special styles in bonsai

MAPPING

PSO CO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	H	S	M	S
CO2	S	M	H	S	H
CO3	H	H	M	H	H
S - Strong H - High M - Medium L - Low					

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CERTIFICATE COURSE QUESTION PAPER (PRACTICALS)

End semester Examination Question Paper Pattern

(For the candidates admitted from the academic year 2018-19 onwards)

Time: 3 Hours

Max. Marks: 100 Marks

BREAK UP OF MARKS

A. Identification of Plants suitable for making bonsai	-10Marks
B. Identification of tools for making bonsai	-10 Marks
C. Cutting, Wiring and Pruning techniques	-10 Marks
D. Role of fertilizer and its importance for bonsai making	-10 Marks
E. Styles of bonsai	-10 Marks
F. Set-up Root over Rock	-10 Marks

Record	- 20 Marks
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TOTAL	- 80 Marks
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Programme Code: 05		Title: CERTIFICATE COURSE - BONSAI		
Course Code: 18CCB1Z1		Project Report Submission		
Batch 2018-2019	Semester I	Hours / Week 2	Total Hours 30	Credits 2

COURSE OBJECTIVES

- To identify and utilize plants species from natural habitats for bonsai making.
- To select the suitable plants for designing bonsai.
- To gain knowledge on aesthetic value of bonsai of global importance.

COURSE OUTCOMES

On successful completion of the course, the students will be able to

K3	CO1	Develop architectural skills in bonsai making.
K4	CO2	Analyze the sustainable utilization of tree species obtained from various natural vegetation.
K5	CO3	Evaluate the nature and various styles of bonsai.

*Submission and Evaluation of Project Report

MAPPING

CO \ PSO	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	H	S	M	S
CO2	S	M	H	S	H
CO3	H	H	M	H	H

S - Strong **H** - High **M** - Medium **L** - Low

Department : BOTANY


Class Name : CERTIFICATE COURSE IN BONSAI

Year(Initiated) : 2018

Incharge : ABDUL KAFFOOR HABIBULLA

SL.No.	Register No	Roll No	Student Name
1	186CCB001	186CCB001	ANUSHA M
2	186CCB002	186CCB002	RAJESWARI R
3	186CCB003	186CCB003	SHEENU M
4	186CCB004	186CCB004	YASWANTHKUMAR S
5	186CCB005	186CCB005	JAYA KEERTHANA C
6	186CCB006	186CCB006	YASIKA M
7	186CCB007	186CCB007	PAVITHRA R
8	186CCB008	186CCB008	SRINITHI A
9	186CCB009	186CCB009	KEERTHANA .M
10	186CCB010	186CCB010	RANJANI R
11	186CCB011	186CCB011	SEVVEL S
12	186CCB012	186CCB012	MATHAN P
13	186CCB013	186CCB013	LINTHIYA E
14	186CCB014	186CCB014	ROOBACA K
15	186CCB015	186CCB015	ANNAPURANI S
16	186CCB016	186CCB016	KEERTHANA G
17	186CCB017	186CCB017	MONICA K
18	186CCB018	186CCB018	SRIMATHI S
19	186CCB019	186CCB019	TAMILSELVAN B
20	186CCB020	186CCB020	DIVYADHARANI N
21	186CCB021	186CCB021	KRISHNARAJ V
22	186CCB022	186CCB022	MADHUMITHA K
23	186CCB023	186CCB023	POONTHALIR S
24	186CCB024	186CCB024	AISWARYA S.NAIR
25	186CCB025	186CCB025	KOWSALIYA R
26	186CCB026	186CCB026	GOWTHAM C
27	186CCB027	186CCB027	BANUPRIYA V
28	186CCB028	186CCB028	NARTHANAA S
29	186CCB029	186CCB029	GOKILA N
30	186CCB030	186CCB030	LOGESWARI M
31	186CCB031	186CCB031	VASINI V
32	186CCB032	186CCB032	ROJA R
33	186CCB033	186CCB033	JEEVA M
34	186CCB034	186CCB034	ARIHARAN B
35	186CCB035	186CCB035	ARIKARAN S
36	186CCB036	186CCB036	LOGESH G
37	186CCB037	186CCB037	SARATH S
38	186CCB038	186CCB038	SATHYAPRIYA S
39	186CCB039	186CCB039	VANISRI K
40	186CCB040	186CCB040	SHANTHA KUMARI S

Total No of Students : 40


Controller of Examinations
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