



SPVVS'S

**G.P.PORWAL ARTS, COMMERCE &
V.V.SALIMATH SCIENCE COLLEGE,
SINDGI**



BROCHURE



DEPARTMENT OF BOTANY

CERTIFICATE COURSE

2018-19



TITLE: BONSAI TECHNIQUE



DATE: 01/08/2018 TO 21/09/2018

LSM
HEAD
Dept. of Botany

Neeraj
Co-ordinator INAC

[Signature]
Principal,



NAME OF THE COURSE

BONSAI TECHNIQUES

OFFERED BY

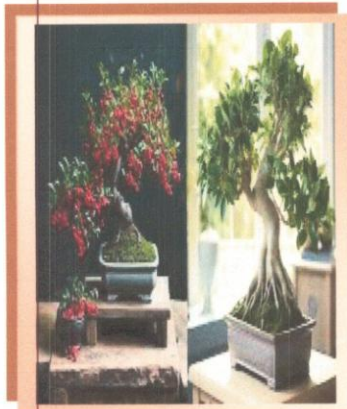
DEPARTMENT OF
BOTANY

COURSE CODE

CCBOTBT4

COURSE COORDINATOR

SMT. S.S. MUTTINPENDIMATH
HOD OF BOTANY



S.P.V.V.S'S
**G.P.PORWAL ARTS, COMMERCE AND
V.V.SALIMATH SCIENCE COLLEGE,
SINDGI - 596 128**
Dist: Vijayapur. Karnataka State

DEPARTMENT OF BOTANY

CERTIFICATE COURSE DETAILS

INSTRUCTIONAL DESIGN

30 HOURS (This course is of Thirty Hrs duration which include Theory and Practical)

ABOUT COLLEGE

G.P.Porwal Arts, Commerce & V.V.Salimath Science College is the first science college in Sindagi Taluk of Vijayapur district which provides education in science stream at U.G. level to the educationally, economically and socially backward students of this Taluk. Since 1988, many students are graduated with B.Sc in Botany is one of the optional subject.

IQAC of G.P.Porwal Arts, Commerce & V.V.Salimath Science College, in its meeting decided to introduce few self financed certificate courses from their academic sessions 2018-19. The continuation of these courses will depend on interest and participation of students.

ELIGIBILITY

All students belonging to V Semester are eligible to enroll for the course

SCOPE OF THE COURSE

The course paves way for Entrepreneurship and career opportunities in State Government Organizations.

OBJECTIVES

- To promote knowledge, interest, education and the enjoyment of bonsai and other living plant materials.
- The objective in bonsai is to stunt the growth of a tree in such a way that its proportions appear to be the same as a full-grown tree, only much smaller.
- Combining both horticultural and artistic skills, regardless of the species, is to create the illusion of fully grown, mature trees in miniature. It involves the bringing of tree and pot together into visual harmony.

BENEFITS OF BONSAI TECHNIQUE

- The miniature plant has many benefits- As air purifier, reduced stress, maintains humidity, develops patience, makes creative, and increases self confidence and self awareness.

COURSE OUTCOMES

- Recognize preliminary techniques about Bonsai.
- Understand the necessary skills to take care maintain a Bonsai plant.
- Apply knowledge on Bonsai cultivation and marketing
- Implement the acquired knowledge on commercial applications of Bonsai.
- Get an overview of the bonsai and its applied aspect at the same time, acquires basic skills and aesthetics needed to create a beautiful bonsai.


HEAD
Dept. of Botany


Co-ordinator IOAC


Principal
- in Charge Arts, Comm. &

COURSE CONTENT

UNIT-I Introduction, kinds of bonsai, classification based on size and style.	10 Hrs
UNIT-II Characteristics of the art form and training of bonsai.	10 Hrs
UNIT-III Requirement for the starting a Bonsai, pruning, pinching, watering, manuring. Pest and disease control.	10 Hrs

BOARD OF STUDIES

1. Prof. Smt. S.S.Muttinpendimath : Chairman & HOD
2. Prof. V.V.Jirali : Member
3. Prof. Sunil. Natikar : Member
4. Prof. S.V.Gurumath : Member
M.V.G.C. College. Muddebihal

THANK YOU


HEAD
Dept. of Botany
G.P.P. & V.V.S. College
SINDGI - 586 128


Co-ordinator IQAC
G. P. Porwal Arts, Comm & V. V. Salimath
Science College, SINDGI-586128. Dt.Vijayapur


Principal
G. P. Porwal Arts, Comm. &
V. V. Salimath Sc. College,
SINDGI-586128. College Code:5224

G.P. PORWAL ARTS, COMMERCE & V.V. SALIMATH SCIENCE COLLEGE, SINDAGI

SUBJECT : Botany			B.SC. V SEMESTER										CERTIFICATE COURSE										2018-19											
No.	RegNo.	StudentName	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1		LAVANYA JYOTTEPA VAGARE	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
2		VIJAYA KANTU CHAVAN	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3		AVINASH C HIREMATH	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
4		RAVI KARIBASAPPA BADIGER	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
5		PRATIBHA MALLAPPA KARNAL	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
6		SOUMYA SUBHASGOUND PATIL	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
7		DEEPA LAGAMANNA PUJARI	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8		PADMAVATI BASAPPA	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
9		TANUJA SUBHAS UPPIN	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10		SUSHMA LINGARAJ IVANI	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11		MAHESH MAHANTAPPA JALAWADI	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
12		SANA CHANDASAB	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
13		ASHWINI MANAPPA	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
14		KHAJABI KHADARBHASHA	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B

HEAD
Dept. of Botany
G.P.P. & V.V.S. College
SINDGI - 586 128

Co-ordinator IQAC
G. P. Porwal Arts, Comm. & V. V. Salimath
Science College, SINDGI-586128, DeVijayapur

Principal,
G. P. Porwal Arts, Comm. &
V. V. Salimath Sc. College,
SINDGI-586128, College Code: 5794

No.	RegNo.	StudentName	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
15		VIJAYALAKSHMI NIGANNA NAIKODI	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
16		BHAGESH MALLANNA	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
17		IMAMKASIM KAMALASAB SHEKH	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
18		FEROJA IBRAHIM CHOWDHARI	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
19		TEJU JAYARAM CHAVAN	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
20		SOUMYA ASHOK KULKARNI	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
21		AKKAMMA K MALLIMANI	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
22		SUKANYA SATTALINGAPPA JIDDAGI	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
23		BHUVANESHWARI D MOODAGI	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
24		GURURAJ SHIVASHANKAR JAMBAGI	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
25		SATYAVVA ARJUN CHAMBAR	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B

HEAD
Dept. of Botany
G.P.P. & V.V.S. College
SINDGI - 586 128

Co-ordinator IQAC
G. P. Porwal Arts, Comm. & V. V. Salimath
Science College, SINDGI-586128, DeVijayapur

Principal,
G. P. Porwal Arts, Comm. &
V. V. Salimath Sc. College,
SINDGI-586128, College Code: 5794

Department of Botany

2018-19

20.6.2018

NOTICE

It is hereby informed to the faculty members of Certificate Course in Botany subject on "Bonsai Technique" that the meeting will be held on 2.7.2018 for formation of BOS of Certificate course at Principal chamber at 12.30pm

1. Prof. R. S. Bhooshetti Principal
1. Prof. S. B. Goudappagondas Co-ordinator
2. Prof. Smt S. S. Muthinpendimath. +/Hm
3. Prof. V. V. Tirali
4. Prof. Sunil. Natikar

Coordinator IOAC
G. P. PORWAL ARTS, COM. &
V.V. BALIMATH Sc. College,
SINDGI - 586128

Chairperson IOAC
G. P. PORWAL ARTS, COM. Dept. of Botany
V.V. BALIMATH Sc. College, P.P. & V.V.B. College
SINDGI - 586128

Meeting was held on 2.7.2018 at Principal chamber for formation of BOS of Certificate course on Bonsai Technique with the faculty members of department of Botany.

Formation of BOS Committee as below

- 1) Prof. R. S. Bhooshetti, Principal Chairman
- 2) Prof. S. B. Goudappagondas Co-ordinator
- 3) Prof. S. S. Muthinpendimath Member
- 4) Prof. V. V. Tirali Member
- 5) Prof. Sunil Natikar Member

The following subjects were discussed

1. Framing of Syllabus for 30 months ^{Hours}
2. Appointment of teaching & non teaching

Department of Botany

2018-19

30.6.2018

NOTICE

It is hereby informed to the faculty members of certificate course in Botany subject on "Bonsai Technique" that the meeting will be held on 2.7.2018 for formation of BOS of Certificate course in Principal chamber at 12.30pm

1. Prof R.S. Bhooshetti Principal, **Principal,**
1. Prof S.B. Goudappagondar. **Co-ordinator**
2. Prof Smt S.S. Muthupendimath. **Member**
3. Prof V.V. Jisali **Member**
4. Prof Sunil Natikar **Member**

Coordinator IOAC
G. P. PORWAL ARTS, COM. &
V.V. SALIMATH Sc. College,
SINDGI-586128

Chairperson IOAC
G. P. PORWAL ARTS, COM. &
V.V. SALIMATH Sc. College, P.P. & V.V.S. College
SINDGI-586128

HEAD
Dept. of Botany
SINDGI - 586 128

Meeting was held on 2.7.2018 in Principal chamber for formation of BOS of Certificate course on Bonsai Technique with the faculty members of department of Botany.

Formation of BOS committee as below.

- 1) Prof. R.S. Bhooshetti, Principal **Chairman**
- 2) Prof S.B. Goudappagondar **Co-ordinator**
- 3) Prof S.S. Muthupendimath **Member**
- 4) Prof V.V. Jisali **Member**
- 5) Prof Sunil Natikar **Member**

The following subjects were discussed.

1. Framing of Syllabus for 30 months **Hours.**
2. Appointment of teachers & non teachers

3. Preparation of theory and Practical time table. The information to the students
 - 4) Theory and Practical work load & its distribution.
 - 5) Application form to the students
- The following faculty members are present in the meeting

1. Principal R.S. Bhooshetti chairman
2. Prof. S.B. Goudappagondar. Coordinator
3. Prof. S.S. Muthinpendimath
4. Prof. V.V. Tirali
5. Prof. Sunil Natikar
6. Prof. S.V. Gurumath

HEAD
Dept. of Botany
G.P.P. & V.V.S. College,
SINDGI - 586 128

Coordinator IOAC
G.P. PORWAL ARTS, COM. &
V.V. SALIMATH Sc. College,
SINDGI-586128

Chairperson IOAC
G.P. PORWAL ARTS, COM. &
V.V. SALIMATH Sc. College,
SINDGI-586128

Resolutions of the meeting.

- 1. Syllabus framed.
- 2. Teaching and non teaching faculty appointed by the chairman.
- 3. Theory & practical time table was prepared.
- 4. Theory & practical work load distributed.
- 5. Application form will be given to the interested students & collected back.

1. Principal R.S. Bhooshetti Chairman
2. Prof. S.B. Goudappagondar. Coordinator
3. Prof. S.S. Muthinpendimath
4. Prof. V.V. Tirali
5. Prof. Sunil Natikar
6. Prof. S.V. Gurumath M&VC Muddebihal

HEAD
Dept. of Botany
G.P.P. & V.V.S. College,
SINDGI - 586 128



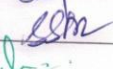


Coordinator IOAC
G.P. PORWAL ARTS, COM. &
V.V. SALIMATH Sc. College,
SINDGI-586128

Chairperson IOAC
G.P. PORWAL ARTS, COM. &
V.V. SALIMATH Sc. College,
SINDGI-586128

NOTICE

It is hereby informed to the staff members of Certificate Course in Botany that the meeting will be held on 28.7.18 with following agenda:



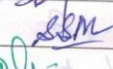


- 1. To conduct practical ~~exam~~ & theory ^{classes} examination
- All are requested to attend the meeting.

- 1. Principal R. S. Bhooshetti 
 - 2. Prof S. B. Goudappagandar 
 - 3. Prof S. S. Multirpendimath 
 - 4. Prof V. V. Jirali 
 - 5. Prof Sunil Natikar 
- 7.8.18
- Coordinator IOAC**
G. P. PORWALARTS, COM. &
V.V.SALIMATH Sc. College,
SINDGI - 586128
- Chairperson IOAC**
G. P. PORWALARTS, COM. &
V.V.SALIMATH Sc. College,
SINDGI - 586128
- HEAD**
Dept. of Botany
G.P.P. & V.V.S. College
SINDGI - 586 128

Resolution of the meeting

The meeting was conducted on 9.8.18 and the following resolutions were made

- 1) Scheme for practical ~~exam~~ ^{classes} was decided to prepare ^{conspectus}
- 2) The question paper for certificate course should be prepared & to start the classes from 1.8.2018

- 1) Principal R. S. Bhooshetti 
 - 2) Prof S. B. Goudappagandar 
 - 3) Prof S. S. Multirpendimath 
 - 4) Prof V. V. Jirali 
 - 5) Prof Sunil Natikar 
- Coordinator IOAC**
G. P. PORWALARTS, COM. &
V.V.SALIMATH Sc. College,
SINDGI - 586128
- Chairperson IOAC**
G. P. PORWALARTS, COM. &
V.V.SALIMATH Sc. College,
SINDGI - 586128
- HEAD**
Dept. of Botany
G.P.P. & V.V.S. College
SINDGI - 586 128

NOTICE

is hereby informed to the staff members the certificate course in botany that meeting is held on 27.9.18 with following agenda.

- conducting theory and practical exam
- evaluation of the papers
- display of marks & result announcement
- distribution of certificate

18

Coordinator IQAC

G. P. PORWAL ARTS, COM. & V.V. SALIMATH Sc. College,

Faculty Member

Principal R.S. Bhoosheth

S.B. Gondappagoudar

S.S. Methnpendimath

V.V. Jirali

Sunil. Natikar

PRINCIPAL

HEAD

Dept. of Botany

G.P.P. & V.V.S. College

SINDGI - 586 128

Resolutions of the meeting

The meeting was conducted on 27.9.18 the following resolutions were undertaken variation for conducting practical

exam was decided & the date for both theory & practical exam was decided

theory - 4.10.18 - time - 9am to 11.00 am for 50 marks

practical 1st batch - 8.10.18 - time 9am to 12.00 pm

2nd batch 8.10.18 time 1pm to 4.00 pm for 50 marks

exam evaluation should be done.

display & announcement of result

distribution of certificate to the students

Principal R.S. Bhoosheth

S.B. Gondappagoudar

S.S. Methnpendimath

② Prof V.V. Jirali

③ Prof Sunil Natikar

SPVSS

**G.P. PORWAL ARTS, COMMERCE & V.V. SALIMATH SCIENCE COLLEGE AND
BHASKARACHARYA-II P.G CENTRE SINDGI – 586 128**

Affiliated to Rani Channamma University Belagavi (Karnataka State)

Accredited at B (2.42 CGPA) by NAAC

From:
The HOD,
Department of Botany
GPP & VVS College
Sindgi
Date: 10-07-2018

To,
The Principal,
GPP & VVS College,
Sindgi

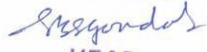
Sub: Permission to start certificate course on "Bonsai Technique"


R/Sir,

We the faculty members of Department of Botany have decided to start Certificate course on "Bonsai Technique" for B.Sc. V Sem students. Hence, we kindly request you to please give the permission to start the Certificate course for the academic year 2018-19. We hope that the authority will consider the request and oblige.

Place: Sindgi
Date: 10-07-2018

Yours faithfully


HEAD
Dept. of Botany
G.P.P. & V.V.S. College
SINDGI - 586 128


Coordinator IQAC
G. P. PORWAL ARTS, COM. &
V.V.SALIMATH Sc. College,
SINDGI-586128


Principal,
G.P.Porwal Arts, Comm. &
V.V.Salimath Sc. College
& P. G. Centre, SINDGI.

S.P.V.V.S.S.
G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE COLLEGE
SINDGI – 586 128
Dist: Vijayapur) Affiliated to Rani Channamma University-Belagavi (Karnataka State
Accredited at B (2.42 CGPA) by NAAC
E-mail:gppprincipal@gmail.com Web: www.gppvvs.ac.in Ph: 9611032604

Date: 11/07/2018

To,
The Head,
Department of Botany

Academic Year: 2018-19

Sub: Permission to conduct Certificate Course.

Ref: Your letter dated 10/07/2018

Sir/Madam,

With reference to subject cited above I herewith permit you to conduct Certificate Course for B.Sc. V semester students.

Thanking you,

Place: Sindgi

Date: 11/07/2018

Coordinator,IQAC


HEAD
Dept. of Botany
G.P.P. & V.V.S. College
SINDGI - 586 128


Coordinator IQAC
G. P. PORWAL ARTS, COM. &
V.V.SALIMATH Sc. College,
SINDGI-586128


Chairperson IQAC

SPVSS

**G.P. PORWAL ARTS, COMMERCE & V.V. SALIMATH SCIENCE COLLEGE AND
BHASKARACHARYA-II P.G CENTRE SINDGI – 586 128**

Affiliated to Rani Channamma University Belagavi (Karnataka State)
Accredited at B (2.42 CGPA) by NAAC

Department of Botany
Certificate Course: 2018-19

Certificate Course on Bonsai Technique

G.P.Porwal Arts, Commerce and V.V.Salimath Science College is the first Science college in **Sindagi** Taluk of Vijayapur district which provides education in Science stream at U.G. level to the educationally, economically, and socially backward students of this taluk. Since 1988, many students are graduated with B.Sc. in Botany, Zoology, Chemistry, Mathematics, Physics and Computer Science.

IQAC of **G.P.Porwal Arts, Commerce and V.V.Salimath Science College** in its meeting decided to introduce few self financed certificate courses from the academic sessions 2018-19. The continuation of these courses after three year will be depend on interest and participation of students, course outcomes and financial provisions from the Institution.

Objectives:

- To promote knowledge, interest, education, and the enjoyment of bonsai and other living plant materials.
- The objective in bonsai is to stunt the growth of a tree in such a way that its proportions appear to be the same as a full-grown tree, only much smaller.
- Combining both horticultural and artistic skills , regardless of the species, is to create the illusion of fully grown, mature trees in miniature. It involves the bringing of tree(s) and pot together into visual harmony.

Instructional Design:-


This course is of three month duration which includes theory and practical classes.

Course Structure and Examination Scheme:-

Course No	Course Name	Theory Classes	Laboratory Experiments	Theory Marks	Practical Marks	Total Marks
01	Bonsai Technique	30hrs	24hrs	50	50	100

Eligibility: All students belonging to Fifth semester are eligible to enroll for the course.


Coordinator IOAC
G. P. PORWAL ARTS, COM. &
V.V.SALIMATH Sc. College,
SINDGI-586128


HEAD
Dept. of Botany
G.P.P. & V.V.S. College
SINDGI - 586 128


Principal,
G.P.Porwal Arts, Comm. &
V.V.Salimath Sc. College
& P. G. Centre, SINDAGI

SPVVSS

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Department of Botany

**Certificate Course
“BONSAI TECHNIQUE”
SYLLABUS**

Unit: 1. Introduction, kinds of bonsai, classification based on size and style.	10 Hrs
Unit: 2. Characteristics of the art form and Training of Bonsai.	10 Hrs
Unit: 3. Requirements for starting a Bonsai, Pruning, Pinching, Watering, Manuring. Pests and Disease Control.	10 Hrs
Total	30 Hrs

PRACTICAL

1. Selection of suitable species.
2. Shape and size of Bonsai plants.
3. Potting and repotting methods.
4. Watering, manuring and pruning.
5. Pests and diseases control.
6. Maintenance and marketing of bonsai plants

Board of Studies:

1. Prof. S.B.Goudappagoudar, : Chairman and HOD
2. Prof.Smt. S.S.Muttinpendimath, : Member
3. Prof.V.V.Jirali : Member
4. Prof: Sunil Natikar : Member

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Department of Botany

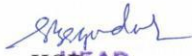
Circular


It is hereby informed to all the students of B.Sc. V Semester that Certificate course on “Bonsai Technique“ will be started in our college from 1-08-2018. Hence interested students may apply on or before 25-07-2018.

Contact:

Prof. S.B.Goudappagoudar

Prof.(Smt).S.S.Muttinpendimath


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COLLEGE,SINDAGI-586128
Department of Botany
Certificate Course**

THEORY AND PRACTICAL TIME TABLE: 2018-19

DAY	TIME		NAME OF THE FACULTY
	Theory	Practical	
Monday	3.00pm - 4.00pm		Prof.S.B.Goudappagoudar
Tuesday	3.00pm - 4.00pm		Prof.Smt.S.S.Muttinpendimath
Wednesday	3.00pm - 4.00pm		Prof.V.V.Jirali
Thursday	3.00pm - 4.00pm		Prof: Sunil. Natikar
Friday		2.00pm - 5.00pm	Prof.V.V.Jirali
Saturday		2.00pm - 5.00pm	Prof: Sunil. Natikar

Date: 26/7/2018

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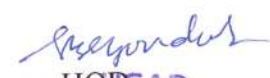
**Department of Botany
Certificate Course
Bonsai Technique (2018-19)**

Students enrolled for certificate course

Sl.No	Name of the students	Class
1	AKKAMMA MALLIMANI	B. Sc.V Sem
2	ASHWINI	B. Sc.V Sem
3	AVINASH	B. Sc.V Sem
4	BHAGESH	B. Sc.V Sem
5	DEEPA LAGAMANNA PUJARI	B. Sc.V Sem
6	FEROJA I CHOWDHARI	B. Sc.V Sem
7	GURURAJ	B. Sc.V Sem
8	IMAMKASIM SHEKH	B. Sc.V Sem
9	KHAJABI	B. Sc.V Sem
10	LAVANYA VAGARE	B. Sc.V Sem
11	MAHESH JALAWADI	B. Sc.V Sem
12	PADMAVATI B SASNOOR	B. Sc.V Sem
13	PRATIBHA KARNAL	B. Sc.V Sem
14	RAVI BADIGER	B. Sc.V Sem
15	SANA	B. Sc.V Sem
16	SATYAVVA ARJUN CHAMBAR	B. Sc.V Sem
17	SOUMYA KULKARNI	B. Sc.V Sem
18	SOUMYA PATIL	B. Sc.V Sem
19	SUKANYA	B. Sc.V Sem
20	SUSHMA IVANI	B. Sc.V Sem
21	TANUJA UPPIN	B. Sc.V Sem
22	TEJU JAYARAM CHAVAN	B. Sc.V Sem
23	VIJAYA CHAVAN KANTU	B. Sc.V Sem
24	VIJAYALAKSHMI NAIKODI	B. Sc.V Sem
25	BHUVANESHWAR	B. Sc. V Sem


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**Department of Botany
Certificate Course
Bonsai Technique
NOTICE**

It is hereby informed to all the students of B.Sc V Sem who have enrolled for Certificate Course should attend Theory and Practical examination as per the following Time Table.

Time- Table for Theory and Practical Examination

	Date	Time
THEORY	4/10/2018	9.00-11.00am
PRACTICAL	Ist Batch - 8/10/2018	9.00-12.00pm
	IInd Batch - 8/10/2018	1.00 - 4.00pm

Date: 25/9/2018

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Department of Botany
Certificate Course
Bonsai Technique
(B.Sc V Semester Only)

Time: 2 Hrs

Question Paper 2018-19

Max. Marks: 50

Answer any five of the followings: 10X5=50

1. What are the different types of bonsai?
2. Describe the different styles of bonsai?
3. What are the characteristics of bonsai?
4. What are the procedures of training bonsai according to different styles?
5. List some plants suitable for bonsai.
6. What are the different diseases that are found in Bonsai plants?
7. Mention the different methods of treating pests and the diseases of Bonsai plants.

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Department of Botany**

Certificate Course -Bonsai Technique(2018-19)

THEORY EXAMINATION ATTENDANCE

Sl.No	Name of the students	Class	SIGN
1	AKKAMMA MALLIMANI	B. Sc.V Sem	
2	ASHWINI	B. Sc.V Sem	
3	AVINASH	B. Sc.V Sem	
4	BHAGESH	B. Sc.V Sem	
5	DEEPA LAGAMANNA PUJARI	B. Sc.V Sem	
6	FEROJA I CHOWDHARI	B. Sc.V Sem	
7	GURURAJ	B. Sc.V Sem	
8	IMAMKASIM SHEKH	B. Sc.V Sem	
9	KHAJABI	B. Sc.V Sem	
10	LAVANYA VAGARE	B. Sc.V Sem	
11	MAHESH JALAWADI	B. Sc.V Sem	
12	PADMAVATI B SASNOOR	B. Sc.V Sem	
13	PRATIBHA KARNAL	B. Sc.V Sem	
14	RAVI BADIGER	B. Sc.V Sem	
15	SANA	B. Sc.V Sem	
16	SATYAVVA ARJUN CHAMBAR	B. Sc.V Sem	
17	SOUMYA KULKARNI	B. Sc.V Sem	
18	SOUMYA PATIL	B. Sc.V Sem	
19	SUKANYA	B. Sc.V Sem	
20	SUSHMA IVANI	B. Sc.V Sem	
21	TANUJA UPPIN	B. Sc.V Sem	
22	TEJU JAYARAM CHAVAN	B. Sc.V Sem	
23	VIJAYA CHAVAN KANTU	B. Sc.V Sem	
24	VIJAYALAKSHMI NAIKODI	B. Sc.V Sem	

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COLLEGE ,SINDAGI-586128**

Department of Botany

Certificate Course -Bonsai Technique (2018-19)

PRACTICAL EXAMINATION ATTENDANCE

Sl.No	Name of the students	Class	SIGN
1	AKKAMMA MALLIMANI	B. Sc.V Sem	<i>Akkamma</i>
2	ASHWINI	B. Sc.V Sem	<i>Ashwini</i>
3	AVINASH	B. Sc.V Sem	<i>Avinash</i>
4	BHAGESH	B. Sc.V Sem	<i>Bhagesh</i>
5	DEEPA LAGAMANNA PUJARI	B. Sc.V Sem	<i>DP</i>
6	FEROJA I CHOWDHARI	B. Sc.V Sem	<i>Feroja</i>
7	GURURAJ	B. Sc.V Sem	<i>Gururaj</i>
8	IMAMKASIM SHEKH	B. Sc.V Sem	<i>Imamkasim</i>
9	KHAJABI	B. Sc.V Sem	<i>Khajabi</i>
10	LAVANYA VAGARE	B. Sc.V Sem	<i>Lavanya</i>
11	MAHESH JALAWADI	B. Sc.V Sem	<i>Mahesh</i>
12	PADMAVATI B SASNOOR	B. Sc.V Sem	<i>Padmavati</i>
13	PRATIBHA KARNAL	B. Sc.V Sem	<i>Pratibha</i>
14	RAVI BADIGER	B. Sc.V Sem	<i>Ravi</i>
15	SANA	B. Sc.V Sem	<i>Sana</i>
16	SATYAVVA ARJUN CHAMBAR	B. Sc.V Sem	<i>Satyavva</i>
17	SOUMYA KULKARNI	B. Sc.V Sem	<i>Soumya</i>
18	SOUMYA PATIL	B. Sc.V Sem	<i>Soumya</i>
19	SUKANYA	B. Sc.V Sem	<i>Sukanya</i>
20	SUSHMA IVANI	B. Sc.V Sem	<i>Sushma</i>
21	TANUJA UPPIN	B. Sc.V Sem	<i>Tanuja</i>
22	TEJU JAYARAM CHAVAN	B. Sc.V Sem	<i>Teju</i>
23	VIJAYA CHAVAN KANTU	B. Sc.V Sem	<i>Vijaya</i>
24	VIJAYALAKSHMI NAIKODI	B. Sc.V Sem	<i>Vijayalakshmi</i>

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**Department of Botany
Certificate Course
Bonsai Technique**

Statement of marks 2018-19

Sl.No	Name of the students	Class	Theory (50 Mrks)	Practical (50 Mrks)	Remark
1	AKKAMMA MALLIMANI	B. Sc.V Sem	38	42	Pass
2	ASHWINI	B. Sc.V Sem	40	44	Pass
3	AVINASH	B. Sc.V Sem	46	48	Pass
4	BHAGESH	B. Sc.V Sem	40	45	Pass
5	DEEPA LAGAMANNA PUJARI	B. Sc.V Sem	42	48	Pass
6	FEROJA I CHOWDHARI	B. Sc.V Sem	39	42	Pass
7	GURURAJ	B. Sc.V Sem	39	43	Pass
8	IMAMKASIM SHEKH	B. Sc.V Sem	38	42	Pass
9	KHAJABI	B. Sc.V Sem	37	40	Pass
10	LAVANYA VAGARE	B. Sc.V Sem	37	40	Pass
11	MAHESH JALAWADI	B. Sc.V Sem	36	40	Pass
12	PADMAVATI B SASNOOR	B. Sc.V Sem	46	48	Pass
13	PRATIBHA KARNAL	B. Sc.V Sem	44	48	Pass
14	RAVI BADIGER	B. Sc.V Sem	36	40	Pass
15	SANA	B. Sc.V Sem	41	45	Pass
16	SATYAVVA ARJUN CHAMBAR	B. Sc.V Sem	45	48	Pass
17	SOUMYA KULKARNI	B. Sc.V Sem	45	48	Pass
18	SOUMYA PATIL	B. Sc.V Sem	46	48	Pass
19	SUKANYA	B. Sc.V Sem	41	40	Pass
20	SUSHMA IVANI	B. Sc.V Sem	46	48	Pass
21	TANUJA UPPIN	B. Sc.V Sem	41	43	Pass
22	TEJU JAYARAM CHAVAN	B. Sc.V Sem	39	40	Pass
23	VIJAYA CHAVAN KANTU	B. Sc.V Sem	39	40	Pass
24	VIJAYALAKSHMI NAIKODI	B. Sc.V Sem	42	42	Pass

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COLLEGE, SINDAGI**

**Department of Botany
Certificate Course –Bonsai technique - 2018-19
Practical Attendance**

Sl. No	Reg.No	Name of the students	10/1/28	11/1/28	17/1/19	18/1/19	24/1/19	25/1/19	
1	S1625403	AKKAMMA MALLIMANI	P	P	P	P	P	P	AKK
2	S1625408	ASHWINI	P	P	P	P	P	P	Ash
3	S1625413	AVINASH	P	P	P	P	P	P	AVI
4	S1625417	BHAGESH	P	A	P	P	P	P	BH
5	S1625425	DEEPA LAGAMANNA PUJARI	P	P	P	P	A	P	DEE
6	S1625429	FEROJA I CHOWDHARI	P	P	P	P	P	P	FER
7	S1625431	GURURAJ	P	P	P	P	P	P	GUR
8	S1625432	IMAMKASIM SHEKH	P	P	P	P	P	P	IMAM
9	S1625439	KHAJABI	P	P	A	P	P	P	KHA
10	S1625443	LAVANYA VAGARE	P	P	P	P	P	P	LAV
11	S1625447	MAHESH JALAWADI	P	P	P	P	P	A	MAH
12	S1625464	PADMAVATI B SASNOOR	P	P	P	P	P	P	PAD
13	S1625475	PRATIBHA KARNAL	P	P	P	P	P	P	PRAT
14	S1625481	RAVI BADIGER	A	P	P	P	P	P	RAVI
15	S1625491	SANA	P	P	P	P	P	P	SAN
16	S1625495	SATYAVVA ARJUN CHAMBAR	P	P	P	P	P	P	SATY
17	S1625518	SOUMYA KULKARNI	P	P	P	P	P	P	SOU
18	S1625519	SOUMYA PATIL	P	P	P	P	P	P	SOU
19	S1625521	SUKANYA	P	P	P	P	P	P	SUK
20	S1625526	SUSHMA IVANI	P	P	P	A	P	P	SUSH
21	S1625529	TANUJA UPPIN	P	P	P	P	P	P	TANU
22	S1625531	TEJU JAYARAM CHAVAN	P	P	P	P	P	P	TEJU
23	S1625535	VIJAYA CHAVAN KANTU	P	P	P	P	P	P	VIJA
24	S1625536	VIJAYALAKSHMI NAIKODI	P	P	P	P	P	P	VIJA

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CLASS	SUBJECT	
ROLL NO. S1625417	DATE	

Q) What are the different types of Bonsai?

→ 1) Apple Bonsai Tree :- Apple trees fall into the group of tropical bonsai varieties. That's because the apple tree is native of America's tropics. Also known as pitch apple & money apple, we can see white & pink flowers in summertime, while tree is in bloom. This type of bonsai can be molded into various styles & make wonderful addition to lighten up any free space such as office desk, or home shelf.

2) Artificial Bonsai Tree :- Artificial bonsai trees have become extremely popular. More & more people appreciate the intricate beauty of bonsai but simply lack the time to devote into bonsai cultivation because of the busy paced life we lead nowadays. This tree can help to enjoy miniature trees without spending any energy on cultivation.

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3) Azalea Bonsai Tree :- This tree holds a very special & prized position in the world of bonsai connoisseurs. Azalea add both colour & bloom to the art of Bonsai. When shaded with care & precision your tiny Azalea tree can reward you with dazzling clouds of blossoms in pink, red.

4) Bahama Berry Bonsai Tree :- Bahama Berry is known under many different names, some of which include Nashiangensis, moujenta, pineapple, interestingly when grown as an ordinary tree & in maturity the Bahama Berry is pretty much unattractive as compared to look it can be molded into the practice of Bonsai.

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maintenance they make a wonderfully rewarding experience for the more seasoned Bonsai cultivators

5) Bamboo Bonsai Tree's most of the associations which come to your mind when thinking of a bamboo are probably related to the hollow bamboo stems often used for building fences. This type is actually not a tree at all instead it grows as a small shrub.

2) Describe the different styles of Bonsai ?

→ 1) Broom Style Bonsai (Hokidachi) :- The broom style is suited for deciduous trees with extensive fine branching. The trunk is straight & upright & does not continue to the top of tree, it branches out in all directions at about $\frac{1}{3}$ the height of tree. The branches & leaves form a ball shaped crown which is also a stunning sight.

2) Formal Upright Bonsai (chokkan) :- It is very common form of Bonsai. It often occurs in nature especially when tree is exposed to lots of light & does not face problem of competing trees. For this tapering of trunk must be closely visible.

3) Informal Upright Bonsai (moyogi) :- It is very common in both nature & in the form of Bonsai. The trunk grows upright roughly in the shape of letter 'S' & at every turn branching occurs. Tapering of the trunk must be clearly visible with the base of the trunk thicker than higher portion.

4) Slanting Bonsai (shakan) :- As a result of wind blowing in one direction or when tree grows in the shade & must bend towards Sun, the tree will lean in one direction. The leaning style should grow at an angle of about 60-80°.

5) Cascade Bonsai (Kengai) :- A tree living in nature on a steep cliff can bend downward as a result of several factors like snow or falling rocks. These factors cause tree to grow downwards. For Bonsai trees it can be difficult to maintain a downward growing tree because the direction of growth opposes a tree's natural tendency to grow upright.

3) →

what are the characteristics of Bonsai?

A Bonsai is distinct from other plants mainly by virtue of its tree-like shaped & appearance.

It should firstly have the common attributes of its bigger counter parts in nature. Bonsai are differentiated from ordinary potted plants because to all intents & purposes they look like full grown trees, albeit on a miniature scale.

But like a tree, a bonsai should have the following characteristics of a tree.

- 1) It should have a tapering trunk line.
- 2) Abundance of branches reaching out in all directions.
- 3) A good spread of roots emerging from the base at the level of the soil disappearing into the soil gradually so as to denote stability and agelessness.

4) A tree as natural looking as possible with reference to its species.

5) A pot which is in aesthetic & visual proportion to the tree, neither too big nor too small, both together forming a harmonious unity.

The branches too should have a pattern, the first branch should emerge from about $\frac{1}{3}$ rd of the tree's height above the base the second branch should emerge from opposite side of the trunk.

The third branch again from the side of trunk opposite the second branch a branch growing from the back of the trunk away from the front to give a third dimension to the tree.

All other branches would even follow this pattern each emerging from a higher point of trunk, the entire branch arrangement raising in a gentle spiral of the trunk.

4) List some plants suitable for Bonsai?

→ 1) Juniper (*Juniperus* spp) :- It is a large genus of over 50 evergreen coniferous trees & shrubs that are popular as bonsai trees. All species of juniper are popular as bonsai for 2 reasons.

i) The small foliage fits nicely with the miniature aesthetic of bonsai.

ii) Juniper are hardy trees that can withstand aggressive pruning.

Requirement :-

light = bright, sunny light

water = Allow soil to dry slightly before watering.

colour variety - Needles can be yellow, pale or dark green.



2) Pine (Pinus spp):- These are hard & trainable, In fact Pine trees can be shaped into almost every known bonsai style. They are characterised by needles that appear bundles of two or five
light - full sun.

water - water when the soil looks dry
Colour Variety - Needles range from light green to bluish green

3) Japanese maple (Acer palmatum):- These are deciduous hardwood trees famous for red burgundy or green leaves that turn bright red, orange or yellow in fall, The bark of young maple is typically green or reddish, turning grey or grayish brown as it ages.

light - sunny & partial sun
water - required frequent watering
Colour variety - red as yellow leaves from Spring to fall

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4) Japanese flowering cherry (Prunus serrulata) These are traditionally believed to signify friendship & variety such as Japanese flowering cherry also make beautiful bonsai trees. These ornamental deciduous trees are not only gorgeous but they are easy to train.

light - full sun
water - constant moisture
Colour Variety - foliage is green or bronze.

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5) Cedar (cedrus spp) :- The rough jagged bark of cedar trees has made them a popular choice among bonsai. These are evergreen conifers that grow short needle clusters along their branches.
light - Direct sun
water - partially dry b/w waterings.
colour variety - Dark green needles.

5. Mention the different methods of trimming of bonsai plants?
-> Six steps to trimming your bonsai tree plant

1) The trimming process is aimed at doing away with dead to give space for healthier foliage to grow.

Identify the branches that need trimming will determine where the most trimming will determine where the most trimming needs to be done & where it is least needed.

2) Target the trimming at the for shaping purpose, To make bonsai tree take on a particular shape, the best method to use is pinching off or trimming at the ends until the desired shape has been achieved. The new orientation will make the tree curve & depend on direction.

3) Go Sharp & slow :- when use tools such as shears for your trimming it is essential to make sure they are very sharp from quick cuts that leave minor wounds. The other thing to look out for is cutting away more than necessary & trimming where needed to ensure that the bonsai tree remains healthy & growth continues with ease.

STUDENT'S NAME		TOTAL MARKS OBTAINED
CLASS	SUBJECT	
ROLL NO.	DATE	

4) use different shaping techniques; the process of shaping the Bonsai tree is reorienting it to make a different growth direction. This can be done using various methods, such as tying or bending the trees.

5) Trim in seasons - After new growth seasons have occurred, cut down the leaves of Bonsai tree to allow for new growth. This motivates rapid growth & gives space for dense leaves to be brought forth.

6) Rinse off Bonsai tree - This final step is vital as it washes off any dust & dirt that is bound to accumulate on the leaves after a while. This keeps the tree clean & beautiful & in the best position to absorb the natural elements it needs to survive.



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**G. P. Porwal Arts, Commerce & V. V. Salimath Science
College, Sindgi- 586 128**

Dist: Vijayapur

State: Karnataka

(Accredited 'B' Grade by NAAC)

(Affiliated to Rani Channamma University, Belagavi)

IQAC Initiative

CERTIFICATE

This is to certify that Kumar/ Kumari.....
of B.Sc V SEM has successfully completed Certificate Course on "BONSAI
TECHNIQUE" conducted by department of BOTANY during the academic year 2018-19.


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