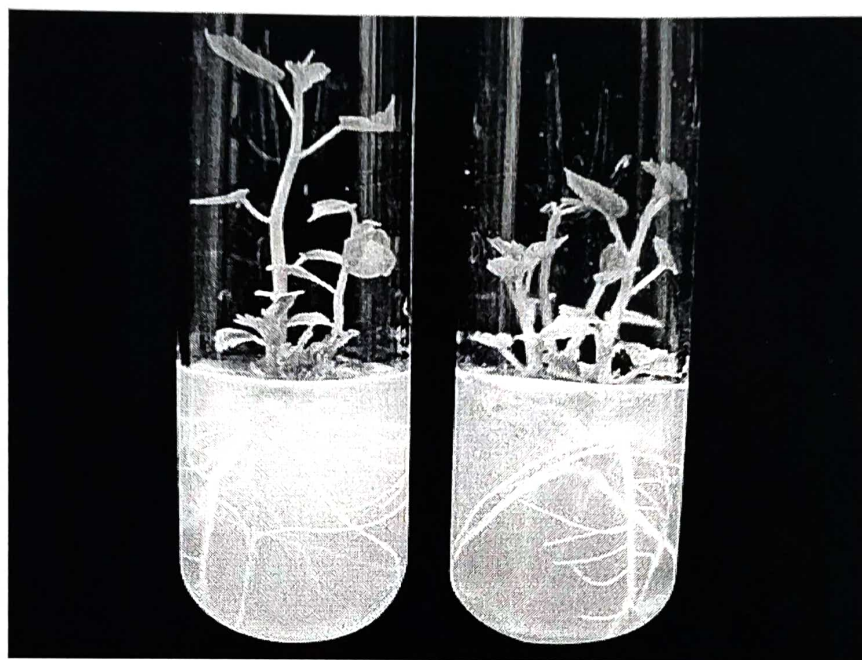




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S. B. ARTS AND K. C. P. SCIENCE COLLEGE
Smt. Bangaramma Sajjan Campus, Shri B. M. Patil Road (Solapur Road), Vijayapur-586103



DEPARTMENT OF BOTANY



VALUE ADDED COURSE IN BOTANY

PLANT TISSUE CULTURE TECHNIQUES (Sub Code: KCPBVAC 01)

B.SC IST SEMESTER
(FOR THE ACADEMIC YEAR 2022-23)

BLDEAssociation'S
S.B. ARTS AND K.C.P. SCIENCE COLLEGE, VIJAYAPUR.

DEPARTMENT OF BOTANY

VALUE ADDED COURSE

CONTENTS

Sl.No	Title
1	Objective and scope
2	Syllabus (Theory and Practical)
3	Notice
4	List of faculty
5	List of Students
6	Time table
7	Theory attendance list
8	Practical attendance list
9	Exam notice
10	Theory exam question paper
11	Theory exam students signature list
12	Practical exam question paper
13	Practical exam students signature list
14	Theory and practical marks list
15	Value added course out come
16	Certificates

SKILL BASED VALUE ADDED COURSE IN BOTANY

PLANT TISSUE CULTURE TECHNIQUES

(Sub Code: KCPBVAC 01)

Course structure for Ist B.Sc. NEP Students

1. Objective and scope
2. Syllabus
3. Duration of the course
4. Evaluation and certificate
5. Time table

1. Objective and scope:

Although the B.Sc. (NEP) Botany will mold and equip students for the present educational scenario, the department of Botany is introducing this skill based value added course in “**PLANT TISSUE CULTURE TECHNIQUES**” to encourage and support the growing demands and challenging trends in the biotechnical education. Our training focuses on the all-round development of the student's to face the competitive World.

The objectives and scope of the program:

1. Understand the scope and significance of the discipline.
2. Clear, comprehensive and advanced mastery in the field of Botany.
3. Understand the advanced areas of biological sciences with special reference to Botany and its applied branches.
4. Skill in practical work, experiments, use of biological tool and techniques.
5. Awareness to explore the intricacies of life forms at the cellular, molecular and nano level and inspire to disseminate the concept of biodiversity conservation.
6. Motivation and enthusiasm to appreciate the beauty of different life forms.
7. Problem-solving skills in students to carry out innovative research projects thereby enkindling in them the spirit of knowledge creation.
8. Proficiency in the use of recent and advanced biological technologies.

SYLLABUS

SKILL BASED VALUE ADDED COURSE IN BOTANY

PLANT TISSUE CULTURE TECHNIQUES

(Sub Code: KCPBVAC 01)

Teaching: 30 hrs, weakly 4 hrs

Theory

Unit-I (Introduction to Plant Tissue culture) Introduction to Plant Tissue culture, Terms and definitions, Historical background, Laboratory organization, Tools and techniques, methods of sterilization. Laboratory contaminants- it's control and measures. **- 7 Hrs**

Unit-II (Media and Culture Preparation) Role of Micro and macro nutrients, Vitamins and carbon source in tissue culture, Media preparation- pH, Temperature, Solidifying agents, Slant Preparations etc. Maintenance of cultures, Environmental Conditions, explants characteristics. **- 8 Hrs**

Unit-III (Culture techniques) Explants selection, sterilization and inoculation; Various media preparations; MS, B5,; Callus and cell suspension culture. **- 7 Hrs**

Unit-IV (Initiation of Cultures) Induction and growth parameters; Culture initiation, Callus culture. Micropropagation through various explants (Leaf, Stem, Axillary bud, Tuber, Corms and Bulbills). **- 8 Hrs**

Books for Reference:

1. Pullaiah. T. and M.V.SubbaRao. 2009. Plant Tissue culture. Scientific Publishers, New Delhi.
2. Bhojwani, S.S. and Razdan, M.K., (1996). Plant Tissue Culture: Theory and Practice. Elsevier Science Amsterdam. The Netherlands.
3. Glick, B.R., Pasternak, J.J. (2003). Molecular Biotechnology- Principles and Applications of recombinant DNA. ASM Press, Washington.
4. Bhojwani, S.S. and Bhatnagar, S.P. (2011). The Embryology of Angiosperms. Vikas Publication House Pvt. Ltd., New Delhi. 5th edition.
5. Snustad, D.P. and Simmons, M.J. (2010). Principles of Genetics. John Wiley and Sons, U.K. 5th edition.
6. Stewart, C.N. Jr. (2008). Plant Biotechnology & Genetics: Principles, Techniques and Applications. John Wiley & Sons Inc. U.S.A.

PLANT TISSUE CULTURE TECHNIQUES

(Sub Code: KCPBVACP 01)

Practical syllabus

Total Practical: 20 hrs,

Lab. No.	Aim of the Experiment
1	Requirements for Plant Tissue Culture Laboratory
2	Techniques in Plant Tissue Culture
3	Media components and preparations
4	Sterilization techniques and Inoculation of various explants
5	Aseptic manipulation of various explants
6	Callus induction and Plant Regeneration
7	Micro propagation of important crops and hardening / acclimatization of regenerated plants
8	Anther, Embryo and Endosperm culture
9	Somatic embryogenesis and synthetic seed production
10	Isolation of protoplast



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Date: 27/09/2022

DEPARTMENT OF BOTANY

VALUE ADDED COURSE

NOTICE

Our Department is conducting "Value Added Course (30 hours theory and 20 hours Practical duration) on **Plant tissue culture techniques** "for B.Sc Students in Botany, during the year of 2022-23. Interested Students give their names to Head of the Department on before 06/10/2022.

Certificate will be issued to students after completing the value added course from the college.

HEAD
Department of Botany
SB Arts & KCP Science College
VIJAYAPUR-586103.

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DEPARTMENT OF BOTANY

VALUE ADDED COURSE

TIME TABLE FOR THE YEAR 2022-23

Theory Classes Starts from: 10/10/2022

Practical Starts from: 06/12/2022

Course Tenure : 3 Months

TIME DAYS	V.A.C -	Practical 7:30AM to 10:00AM	THEORY 5:00 PM to 6:00 PM
Monday		Lab 2 – MD 2.30 Hr	
Tuesday			LH No. 9 –AK 1Hr ;
Wednesday			LH No. 9 –AK 1Hr ;
Thursday			LH No. 9 –AP 1Hr ;
Friday			LH No. 9 –AP 1Hr ;
Saturday			
Sunday			

Faculty: Miss. Akshata Kannur – AK, Miss. Anuradha Pawar – AP, Miss. Manjula Dhasyal – MD.


Head of the Department
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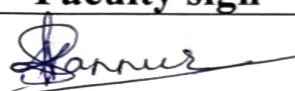
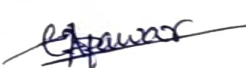
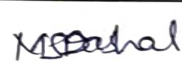

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DEPARTMENT OF BOTANY
VALUE ADDED COURSE

SKILL BASED VALUE ADDED COUSE IN BOTANY
PLANT TISSUE CULTURE TECHNIQUES
(Sub Code: KCPBVAC 01)

List of Faculty 2022-23

Sl. No	Name of the Faculty	Faculty sign
1	Miss. Akshata Kannur	
2	Miss. Anuradha Powar	
3	Miss. Manjula Dhasyal	


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DEPARTMENT OF BOTANY

PLANT TISSUE CULTURE TECHNIQUES

Students Admission List 2022-23
B.Sc I Semester Students, Batch-1

Sl.No	Name of the Students	UUCMS
1	KRUTIKA PUROHIT	U15KM22S0003
2	VANISHREE KARIBHAVI	U15KM22S0004
3	ADARSH BIRADAR	U15KM22S0012
4	SUBHAS TADLAGI	U15KM22S0015
5	ANSH JOSHI	U15KM22S0017
6	SAKSHI SHANTHMALLA GOLE	U15KM22S0032
7	VIDISHA	U15KM22S0036
8	PAVAN PAWAR	U15KM22S0049
9	AMBAREESH RAMESH KAGE	U15KM22S0056
10	SUHASINI PRAKASH HALLI	U15KM22S0062
11	MALAPPA NAGAPPA SADARAGOND	U15KM22S0075
12	SOLANKI YASHODA	U15KM22S0104
13	BHAGYASHREE HANAMANT GOUDAR	U15KM22S0118
14	LAXMI S KUMBAR	U15KM22S0121
15	PRAVEEN SINDAGI	U15KM22S0132
16	SHUNAIN NAAZ INDIKAR	U15KM22S0135
17	PREETAM PUNDLEEK RAJPUT	U15KM22S0169
18	JETTEPPA VIBHOOTALLI	U15KM22S0176
19	SANTOSH DUNDAPPA KOKATANUR	U15KM22S0183
20	POOJA SHRAVAN CHAVAN	U15KM22S0193
21	VIDYASHREE RAJENDRA NAVI	U15KM22S0195
22	SAKSHI SATALAGOAN	U15KM22S0214
23	ROHIT S RATHOD	U15KM22S0228
24	LAXMI CHAVAN	U15KM22S0230
25	TRISHALADEVI VAJRAKANT SHETTI	U15KM22S0241
26	SOUNDARYA MAHADEV GIRANIWADDAR	U15KM22S0242
27	NITIN SHIVALINGAPPA ROOGI	U15KM22S0254
28	BHUVANESHWARI VISHVANATH MANUR	U15KM22S0256
29	PALLAVI M NAYAK	U15KM22S0262
30	MEGHA VITTHALGOUDA BIRADAR	U15KM22S0269


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DEPARTMENT OF BOTANY

SKILL BASED VALUE ADDED COURSE IN BOTANY

PLANT TISSUE CULTURE TECHNIQUES

B.Sc I Semester THEORY ATTENDANCE 2022-23

Sl. No.	Name of the Student	UUCMS No	20/10/22	11/10/22	12/10/22	13/10/22	17/10/22	18/10/22	19/10/22	20/10/22	25/10/22	26/10/22	31/10/22	7/11/22	9/11/22	10/11/22	14/11/22
1	KRUTIKA PUROHIT	U15KM22S0003	Kr	Kr	Kp	Kr	Kr	Kr	Kr	Kr	Kr	Kr	A	Kr	Kr	Kr	Kr
2	VANISHREE KARIBHAVI	U15KM22S0004	Va	Va	A	Va	Va	Va	Va	Va	Va	Va	Va	Va	Va	Va	Va
3	ADARSH BIRADAR	U15KM22S0012	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar
4	SUBHAS TADLAGI	U15KM22S0015	St	St	St	St	A	St	St	St	St	St	St	St	St	St	St
5	ANSH JOSHI	U15KM22S0017	An	An	An	An	An	An	An	A	An	An	An	An	An	An	An
6	SAKSHI S GOLE	U15KM22S0032	Sg	A	Sg	Sg	Sg	Sg	Sg	Sg	Sg	Sg	Sg	Sg	Sg	Sg	Sg
7	VIDISHA	U15KM22S0036	Vd	Vd	Vd	Vd	Vd	Vd	Vd	Vd	Vd	Vd	Vd	Vd	Vd	Vd	Vd
8	PAVAN PAWAR	U15KM22S0049	Pp	Pp	Pp	Pp	Pp	Pp	Pp	Pp	Pp	Pp	A	Pp	Pp	Pp	Pp
9	AMBAREESH R KAGE	U15KM22S0056	Am	Am	Am	Am	Am	Am	Am	Am	Am	Am	Am	Am	Am	Am	Am
10	SUHASINI P HALLI	U15KM22S0062	Sh	Sh	Sh	Sh	Sh	A	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh
11	MALAPPA N SADARAGOND	U15KM22S0075	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn
12	SOLANKI YASHODA	U15KM22S0104	Sl	Sl	Sl	Sl	Sl	Sl	Sl	Sl	Sl	Sl	Sl	Sl	Sl	Sl	Sl
13	BHAGYASHREE H GOUDAR	U15KM22S0118	Bg	Bg	Bg	A	Bg	Bg	Bg	Bg	Bg	Bg	Bg	A	Bg	A	Bg
14	LAXMI S KUMBAR	U15KM22S0121	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk
15	PRAVEEN SINDAGI	U15KM22S0132	Ps	Ps	Ps	Ps	Ps	Ps	Ps	A	Ps	Ps	Ps	Ps	Ps	Ps	Ps

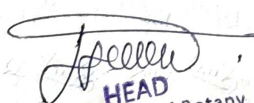
Sl. No.	Name of the Student	UUCMS No	10/10/22	11/10/22	12/10/22	13/10/22	17/10/22	18/10/22	19/10/22	20/10/22	25/10/22	2/11/22	3/11/22	7/11/22	9/11/22	10/11/22	14/11/22
16	SHUNAIN NAAZ INDIKAR	U15KM22S0135	Indi	Indi	Indi	Indi	Indi	Indi	Indi	Indi	Indi	Indi	Indi	Indi	Indi	Indi	Indi
17	PREETAM P RAJPUT	U15KM22S0169	Raj	Raj	Raj	Raj	A	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj
18	JETTEPPA VIBHOOTALLI	U15KM22S0176	Jetti	Jetti	Jetti	Jetti	Jetti	Jetti	Jetti	Jetti	Jetti	Jetti	Jetti	Jetti	Jetti	Jetti	Jetti
19	SANTOSH D KOKATANUR	U15KM22S0183	Sole	Sole	Sole	Sole	Sole	Sole	A	Sole	Sole	Sole	Sole	Sole	Sole	Sole	Sole
20	POOJA S CHAVAN	U15KM22S0193	Gooja	A	Gooja	Gooja	Gooja	Gooja	Gooja	Gooja	Gooja	Gooja	Gooja	Gooja	Gooja	Gooja	Gooja
21	VIDYASHREE R NAVI	U15KM22S0195	Navi	A	Navi	Navi	Navi	Navi	Navi	A	Navi	A	Navi	Navi	Navi	Navi	A
22	SAKSHI SATALAGOAN	U15KM22S0214	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak
23	ROHIT S RATHOD	U15KM22S0228	Rsr	Rsr	Rsr	Rsr	Rsr	Rsr	Rsr	Rsr	Rsr	Rsr	Rsr	A	Rsr	Rsr	Rsr
24	LAXMI CHAVAN	U15KM22S0230	Lax	Lax	Lax	Lax	Lax	Lax	Lax	Lax	Lax	Lax	Lax	Lax	Lax	Lax	Lax
25	TRISHALADEVI V SHETTI	U15KM22S0241	Thetti	Thetti	Thetti	Thetti	Thetti	A	Thetti	Thetti	Thetti	Thetti	Thetti	Thetti	Thetti	Thetti	Thetti
26	SOUNDARYA M GIRANIWADDAR	U15KM22S0242	Gir	Gir	Gir	Gir	Gir	Gir	Gir	Gir	Gir	Gir	Gir	A	Gir	Gir	Gir
27	NITIN S ROOGI	U15KM22S0254	Ns	Ns	A	Ns	Ns	Ns	Ns	Ns	Ns	Ns	Ns	Ns	Ns	Ns	Ns
28	BHUVANESHWARI V MANUR	U15KM22S0256	Bhu	Bhu	Bhu	Bhu	Bhu	Bhu	A	Bhu	Bhu	Bhu	Bhu	Bhu	Bhu	Bhu	Bhu
29	PALLAVI M NAYAK	U15KM22S0262	Pal	Pal	Pal	A	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal
30	MEGHA V BIRADAR	U15KM22S0269	Meg	Meg	Meg	Meg	Meg	Meg	Meg	Meg	Meg	A	Meg	Meg	Meg	Meg	Meg

DEPARTMENT OF BOTANY
SKILL BASED VALUE ADDED COURSE IN BOTANY
PLANT TISSUE CULTURE TECHNIQUES

B.Sc I Semester THEORY ATTENDANCE 2022-23

[illegible]

Sl. No.	Name of the Student	UUCMS No	15/11/22	16/11/22	17/11/22	21/11	22/11/22	23/11/22	24/11/22	25/11/22	28/11/22	29/11/22	30/11/22	31/11/22	1/12/22	2/12/22	5/12/22
16	SHUNAIN NAAZ INDIKAR	U15KM22S0135	Indikar	Indikar	Indikar	Indikar	Indikar	Indikar	Indikar	Indikar	A	Indikar	Indikar	Indikar	Indikar	Indikar	Indikar
17	PREETAM P RAJPUT	U15KM22S0169	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput
18	JETTEPPA VIBHOOTALLI	U15KM22S0176	Jetteppa	A	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa
19	SANTOSH D KOKATANUR	U15KM22S0183	Sole	Sole	Sole	Sole	Sole	Sole	Sole	Sole	Sole	Sole	Sole	Sole	Sole	Sole	Sole
20	POOJA S CHAVAN	U15KM22S0193	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
21	VIDYASHREE R NAVI	U15KM22S0195	Navi	Navi	Navi	Navi	Navi	Navi	Navi	Navi	Navi	Navi	Navi	Navi	Navi	A	A
22	SAKSHI SATALAGOAN	U15KM22S0214	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	A	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
23	ROHIT S RATHOD	U15KM22S0228	Rathod	Rathod	Rathod	Rathod	Rathod	Rathod	Rathod	Rathod	Rathod	Rathod	Rathod	Rathod	Rathod	Rathod	Rathod
24	LAXMI CHAVAN	U15KM22S0230	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	A	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
25	TRISHALADEVI V SHETTI	U15KM22S0241	Shetti	Shetti	Shetti	Shetti	Shetti	Shetti	Shetti	Shetti	Shetti	Shetti	Shetti	Shetti	Shetti	Shetti	Shetti
26	SOUNDARYA M GIRANIWADDAR	U15KM22S0242	Giraniwaddar	Giraniwaddar	Giraniwaddar	Giraniwaddar	Giraniwaddar	Giraniwaddar	Giraniwaddar	Giraniwaddar	Giraniwaddar	Giraniwaddar	Giraniwaddar	Giraniwaddar	Giraniwaddar	Giraniwaddar	Giraniwaddar
27	NITIN S ROOGI	U15KM22S0254	Roogi	Roogi	Roogi	Roogi	Roogi	Roogi	Roogi	Roogi	Roogi	Roogi	Roogi	Roogi	Roogi	Roogi	Roogi
28	BHUVANESHWARI V MANUR	U15KM22S0256	Manur	A	Manur	Manur	Manur	Manur	Manur	Manur	Manur	Manur	Manur	Manur	Manur	Manur	Manur
29	PALLAVI M NAYAK	U15KM22S0262	Nayak	Nayak	Nayak	Nayak	Nayak	Nayak	Nayak	Nayak	Nayak	Nayak	Nayak	Nayak	Nayak	Nayak	Nayak
30	MEGHA V BIRADAR	U15KM22S0269	Biradar	Biradar	Biradar	Biradar	Biradar	Biradar	Biradar	Biradar	Biradar	Biradar	Biradar	Biradar	A	Biradar	Biradar


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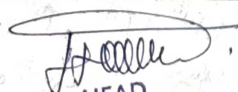

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 Vijayapur.

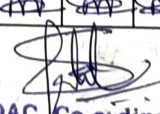

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DEPARTMENT OF BOTANY
SKILL BASED VALUE ADDED COURSE IN BOTANY
PLANT TISSUE CULTURE TECHNIQUES
B.Sc I SEMESTER PRACTICAL ATTENDANCE 2022-23

[illegible]

Sl. No.	Name of the Student	UUCMS No	6/12/22	21/12/22	11/12/22	13/12/22	14/12/22	15/12/22	16/12/22	17/12/22	20/12/22	21/12/22	22/12/22	23/12/22	31/12/22	4/1/23	5/1/23	10/1/23
16	SHUNAIN NAAZ INDIKAR	U15KM22S0135	Indika	A	Indika	Indika	Indika	Indika	Indika	Indika	Indika	A	Indika	Indika	A	Indika	Indika	A
17	PREETAM P RAJPUT	U15KM22S0169	Pretam	Pretam	Pretam	Pretam	Pretam	Pretam	Pretam	Pretam	Pretam	A	Pretam	Pretam	Pretam	Pretam	Pretam	Pretam
18	JETTEPPA VIBHOOTALLI	U15KM22S0176	Jetteppa	Jetteppa	Jetteppa	Jetteppa	A	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa	Jetteppa
19	SANTOSH D KOKATANUR	U15KM22S0183	S.D.K	S.D.K	S.D.K	S.D.K	S.D.K	S.D.K	S.D.K	S.D.K	A	S.D.K	S.D.K	S.D.K	S.D.K	S.D.K	S.D.K	S.D.K
20	POOJA S CHAVAN	U15KM22S0193	Pooja	A	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
21	VIDYASHREE R NAVI	U15KM22S0195	Vidya	Vidya	Vidya	Vidya	Vidya	Vidya	Vidya	Vidya	Vidya	Vidya	Vidya	Vidya	A	Vidya	Vidya	Vidya
22	SAKSHI SATALAGOAN	U15KM22S0214	Sakshi	Sakshi	A	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
23	ROHIT S RATHOD	U15KM22S0228	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit	A	Rohit	Rohit	Rohit	Rohit	Rohit
24	LAXMI CHAVAN	U15KM22S0230	Laxmi	Laxmi	Laxmi	A	Laxmi	Laxmi	Laxmi	Laxmi	Laxmi	Laxmi	Laxmi	Laxmi	Laxmi	Laxmi	Laxmi	Laxmi
25	TRISHALADEVI V SHETTI	U15KM22S0241	Trishala	Trishala	Trishala	Trishala	Trishala	Trishala	Trishala	Trishala	Trishala	A	Trishala	Trishala	Trishala	Trishala	Trishala	Trishala
26	SOUNDARYA M GIRANIWADDAR	U15KM22S0242	Soundarya	Soundarya	Soundarya	Soundarya	A	Soundarya	Soundarya	Soundarya	Soundarya	Soundarya	Soundarya	Soundarya	Soundarya	Soundarya	Soundarya	Soundarya
27	NITIN S ROOGI	U15KM22S0254	Nitin	Nitin	Nitin	Nitin	Nitin	Nitin	A	Nitin	Nitin	Nitin	Nitin	Nitin	Nitin	Nitin	Nitin	Nitin
28	BHUVANESHWARI V MANUR	U15KM22S0256	Bhuvaneshwari	Bhuvaneshwari	Bhuvaneshwari	Bhuvaneshwari	Bhuvaneshwari	Bhuvaneshwari	Bhuvaneshwari	Bhuvaneshwari	Bhuvaneshwari	A	Bhuvaneshwari	Bhuvaneshwari	Bhuvaneshwari	Bhuvaneshwari	Bhuvaneshwari	Bhuvaneshwari
29	PALLAVI M NAYAK	U15KM22S0262	Pallavi	A	Pallavi	Pallavi	Pallavi	Pallavi	Pallavi	Pallavi	Pallavi	Pallavi	Pallavi	Pallavi	Pallavi	Pallavi	Pallavi	Pallavi
30	MEGHA V BIRADAR	U15KM22S0269	Megha	Megha	Megha	Megha	Megha	Megha	Megha	Megha	Megha	Megha	Megha	Megha	A	Megha	Megha	Megha


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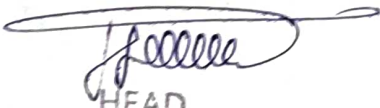


Date: 20/01/2023

NOTICE

The value added course theory and practical Examinations will be conducted On the below dates. All the students attend both the Exams without fail.

	Date	Time
Theory	02/2/2023	2pm to 4.00pm
Practical	14/2/2023	8am to 12.00pm


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DEPARTMENT OF BOTANY

Skill Based Value Added Course Examination (**theory**)
PLANT TISSUE CULTURE TECHNIQUES.
(Sub Code: KCPBVAC 01)

Date: 02-2-2023

Time: 2 pm- ~~4~~pm

Max.Marks:50

Duration: **2** Hour

Q.NO.I. Answer any **FIVE** of the following.

(5X2=10)

- | | | |
|--------------------------|----------------------------|-------------------------|
| 1. Biotechnological uses | 2. Sterilisation technique | 3. Plant tissue culture |
| 4. Callus culture | 5. Media preparation | 6. Inoculation chamber |

Q.NO.II. Answer any **FOUR** of the following.

(4X5=20)

7. Name the various methods of Plant tissue culture?
8. Explain the advantages of Plant tissue culture
9. Explain the embryo culture technique.
10. What is surface sterilization? Explain the inoculation methods.
11. Give an Account on Preparation of MS media.

Q.NO.III. Answer any **TWO** of the following.

(2X10=20)

12. Describe the various steps involved in multiplication of tissue culture plants
13. What is totipotency? Explain the protoplast culture.
14. Describe the method of Micro propagation of important crops and hardening / acclimatization of regenerated plants



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(Affiliated to Rani Channamma University, Belagavi)
Phone: (08352) 262770, Extn. 2223, 2224
Website: www.bldeasbkcp.ac.in E-mail: bldeasbkcp@gmail.com



PLANT TISSUE CULTURE TECHNIQUES

Skill Based Value Added Course Examination
B.Sc I Semester Theory Exam student signature list 2022-23
Date: 02/02/2023

SL.NO	NAME OF THE STUDENTS	UUCMS NO.	STUDENTS SIGN
1	KRUTIKA PUROHIT	U15KM22S0003	
2	VANISHREE KARIBHAVI	U15KM22S0004	
3	ADARSH BIRADAR	U15KM22S0012	
4	SUBHAS TADLAGI	U15KM22S0015	
5	ANSH JOSHI	U15KM22S0017	
6	SAKSHI SHANTHMALLA GOLE	U15KM22S0032	
7	VIDISHA	U15KM22S0036	
8	PAVAN PAWAR	U15KM22S0049	
9	AMBAREESH RAMESH KAGE	U15KM22S0056	
10	SUHASINI PRAKASH HALLI	U15KM22S0062	
11	MALAPPA NAGAPPA SADARAGOND	U15KM22S0075	
12	SOLANKI YASHODA	U15KM22S0104	
13	BHAGYASHREE HANAMANT GOUDAR	U15KM22S0118	
14	LAXMI S KUMBAR	U15KM22S0121	
15	PRAVEEN SINDAGI	U15KM22S0132	
16	SHUNAIN NAAZ INDIKAR	U15KM22S0135	
17	PREETAM PUNDLEEK RAJPUT	U15KM22S0169	
18	JETTEPPA VIBHOOTALLI	U15KM22S0176	
19	SANTOSH DUNDAPPA KOKATANUR	U15KM22S0183	
20	POOJA SHRAVAN CHAVAN	U15KM22S0193	
21	VIDYASHREE RAJENDRA NAVI	U15KM22S0195	
22	SAKSHI SATALAGOAN	U15KM22S0214	
23	ROHIT S RATHOD	U15KM22S0228	
24	LAXMI CHAVAN	U15KM22S0230	
25	TRISHALADEVI VAJRAKANT SHETTI	U15KM22S0241	
26	SOUNDARYA M GIRANIWADDAR	U15KM22S0242	
27	NITIN SHIVALINGAPPA ROOGI	U15KM22S0254	
28	BHUVANESHWARI V MANUR	U15KM22S0256	
29	PALLAVI M NAYAK	U15KM22S0262	
30	MEGHA VITTHALGOUDA BIRADAR	U15KM22S0269	

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DEPARTMENT OF BOTANY

Skill Based Value Added Course Examination (**Practical**) 2022-23

PLANT TISSUE CULTURE TECHNIQUES

(Sub Code: KCPBVACP 01)

Date:-14-02-2023

Max. Marks: 30

Time: 8 am to 12pm

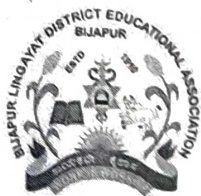
Duration: 4 Hours

Q.NO. I. writes media components and demonstrates the preparations
and Sterilization of media "A" 10 Marks

Q.No. II. Inoculation of stem culture in aseptic condition "B" 05 Marks

Q.NO.III. Demonstrate the synthetic seed production "C" 06 Marks

Q.NO.IV. Identify and Comment on the materials "D, E & D" 09 Marks



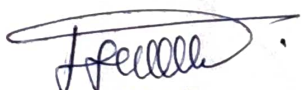
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Website: www.bldeasbkcp.ac.in E-mail: bldeasbkcp@gmail.com



PLANT TISSUE CULTURE TECHNIQUES

Skill Based Value Added Course Examination
B.Sc I Semester Practical Exam student signature list 2022-23
Date: 14/02/2023

SL.NO	NAME OF THE STUDENTS	UUCMS NO.	STUDENTS SIGN
1	KRUTIKA PUROHIT	U15KM22S0003	Kruti.
2	VANISHREE KARIBHAVI	U15KM22S0004	Vanishree
3	ADARSH BIRADAR	U15KM22S0012	Adarsh
4	SUBHAS TADLAGI	U15KM22S0015	Subhas
5	ANSH JOSHI	U15KM22S0017	Ansh
6	SAKSHI SHANTHMALLA GOLE	U15KM22S0032	Sakshi
7	VIDISHA	U15KM22S0036	Vi
8	PAVAN PAWAR	U15KM22S0049	P.P.
9	AMBAREESH RAMESH KAGE	U15KM22S0056	Ambareesh
10	SUHASINI PRAKASH HALLI	U15KM22S0062	Suhasini
11	MALAPPA NAGAPPA SADARAGOND	U15KM22S0075	Malappa
12	SOLANKI YASHODA	U15KM22S0104	Solanki
13	BHAGYASHREE HANAMANT GOUDAR	U15KM22S0118	Bhagyasree
14	LAXMI S KUMBAR	U15KM22S0121	Laxmi
15	PRAVEEN SINDAGI	U15KM22S0132	Praveen
16	SHUNAIN NAAZ INDIKAR	U15KM22S0135	Shunain
17	PREETAM PUNDLEEK RAJPUT	U15KM22S0169	Preetam
18	JETTEPPA VIBHOOTALLI	U15KM22S0176	Jetteppa
19	SANTOSH DUNDAPPA KOKATANUR	U15KM22S0183	S.D. Kokatanur
20	POOJA SHRAVAN CHAVAN	U15KM22S0193	Pooja
21	VIDYASHREE RAJENDRA NAVI	U15KM22S0195	Vidya
22	SAKSHI SATALAGOAN	U15KM22S0214	Sakshi
23	ROHIT S RATHOD	U15KM22S0228	Rohit
24	LAXMI CHAVAN	U15KM22S0230	Laxmi
25	TRISHALADEVI VAJRAKANT SHETTI	U15KM22S0241	Trishala
26	SOUNDARYA M GIRANIWADDAR	U15KM22S0242	Soundarya
27	NITIN SHIVALINGAPPA ROOGI	U15KM22S0254	Nitin
28	BHUVANESHWARI V MANUR	U15KM22S0256	Bhuvaneshwari
29	PALLAVI M NAYAK	U15KM22S0262	Pallavi
30	MEGHA VITTHALGOUDA BIRADAR	U15KM22S0269	Megha


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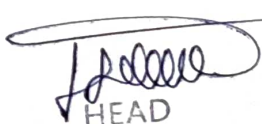

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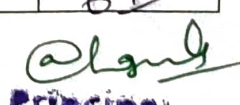
PLANT TISSUE CULTURE TECHNIQUES
B.Sc. Ist Semester student's marks list- 2022-23

Sl. No	Name of the student	UUCMS No.	Theory 50 marks	Practical 30 marks	Total 80 marks
1	KRUTIKA PUROHIT	U15KM22S0003	35	20	55
2	VANISHREE KARIBHAVI	U15KM22S0004	33	23	56
3	ADARSH BIRADAR	U15KM22S0012	30	20	50
4	SUBHAS TADLAGI	U15KM22S0015	42	22	64
5	ANSH JOSHI	U15KM22S0017	38	27	65
6	SAKSHI SHANTHMALLA GOLE	U15KM22S0032	40	26	66
7	VIDISHA	U15KM22S0036	40	22	62
8	PAVAN PAWAR	U15KM22S0049	44	25	69
9	AMBAREESH RAMESH KAGE	U15KM22S0056	32	22	54
10	SUHASINI PRAKASH HALLI	U15KM22S0062	33	23	56
11	MALAPPA N SADARAGOND	U15KM22S0075	35	24	59
12	SOLANKI YASHODA	U15KM22S0104	38	26	64
13	BHAGYASHREE H GOUDAR	U15KM22S0118	39	28	67
14	LAXMI S KUMBAR	U15KM22S0121	34	27	61
15	PRAVEEN SINDAGI	U15KM22S0132	45	19	64
16	SHUNAIN NAAZ INDIKAR	U15KM22S0135	46	18	64
17	PREETAM PUNDLEEK RAJPUT	U15KM22S0169	46	21	67
18	JETTEPPA VIBHOOTALLI	U15KM22S0176	40	24	64
19	SANTOSH D KOKATANUR	U15KM22S0183	38	23	61
20	POOJA SHRAVAN CHAVAN	U15KM22S0193	34	25	59
21	VIDYASHREE RAJENDRA NAVI	U15KM22S0195	38	26	64
22	SAKSHI SATALAGOAN	U15KM22S0214	34	28	62
23	ROHIT S RATHOD	U15KM22S0228	33	25	58
24	LAXMI CHAVAN	U15KM22S0230	40	23	63
25	TRISHALADEVI V SHETTI	U15KM22S0241	38	22	60
26	SOUNDARYA GIRANIWADDAR	U15KM22S0242	37	21	58
27	NITIN SHIVALINGAPPA ROOGI	U15KM22S0254	39	24	63
28	BHUVANESHWARI V MANUR	U15KM22S0256	40	23	63
29	PALLAVI M NAYAK	U15KM22S0262	45	26	71
30	MEGHA V BIRADAR	U15KM22S0269	40	21	61


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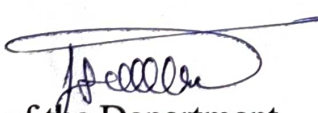
Date: 18/02/2023

DEPARTMENT OF BOTANY

VALUE ADDED COURSE

Course outcome

The Value Added Course – **Plant tissue culture techniques** will help the students for learning new methods of conventional breeding techniques fulfill the required demand of crops. Tissue culture came around as a grand leap in breeding practices. It makes use of parts of a plant to generate multiple copies of the plant in a very short duration. This technique exploits the property of totipotency of plant cell which means that any cell from any part of the plant can be used to generate a whole new plant. After complete this course is more beneficial to create self-employment income generating to students for multiplication of many plants in their own nursery. This Plant tissue culture techniques course focuses on all round development of the students to face competitive world.


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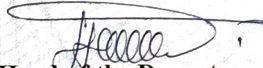
VALUE ADDED COURSE

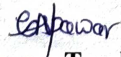
CERTIFICATE



This is to certify that, Mr. /Ms. Ansh. Joshi

has completed the Value Added Course on PLANT TISSUE CULTURE TECHNIQUES
conducted by the Department of Botany during the year 2022-2023

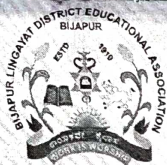

Head of the Department


Incharge Teacher




IQAC Co-ordinator
IQAC, Co-ordinator
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Principal,
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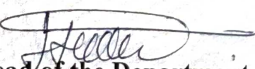
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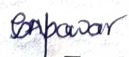
VALUE ADDED COURSE

CERTIFICATE



This is to certify that, Mr. /Ms. Subhas. Taellagi
has completed the Value Added Course on PLANT TISSUE CULTURE TECHNIQUES
conducted by the Department of Botany during the year 2022-2023

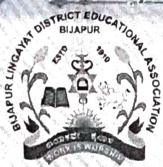

Head of the Department


Incharge Teacher




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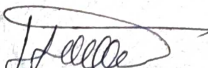
Internal Quality Assurance Cell Initiative

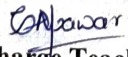
VALUE ADDED COURSE

CERTIFICATE

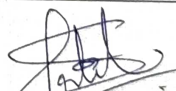


This is to certify that, Mr. /Ms. Pavan. Pawar
has completed the Value Added Course on **PLANT TISSUE CULTURE TECHNIQUES**
conducted by the Department of Botany during the year 2022-2023


Head of the Department


Incharge Teacher




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