

KUVEMPU UNIVERSITY



SRI GOPALA T. D.
Assistant Professor
SAHYADRI SCIENCE COLLEGE
SHIVAMOGGA

Mobile: +91 85469 64460
E-mail: gopalshavi43@gmail.com
DEPARTMENT OF BOTANY
Sahyadri Science College, Shivamogga-577203
Shivamogga Dist., Karnataka, INDIA

Certificate

I certify that the B.Sc. project work entitled "*Macrofungal Diversity in Banajalaya in Sagara taluk of Shimoga district, Karnataka*" submitted to the Department of Botany for the partial fulfilment of B.Sc. VI Semester for the award of the Degree of Bachelor of Science in Botany by **Hamsini S (S1908167)**, **N. U. Meghana (S1908263)**, **Nisarga M. R. (S1908287)**, **Nithish V. (S1908297)**, **Priyanka K. N. (S1908345)**, **Sahana S. A. (S1908688)** and **Vaishnavi S. H. (S1908553)**, is the result of bonafide project work carried out by them under my guidance in the Department of Botany, Sahyadri Science College, Shivamogga during the year 2021-22.

Date: 7/11/22
Place: Shivamogga

Rajan
PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State,

Sri Gopala T. D.
Sri Gopal T.D
Chairman
Department of Botany and Seed technology
Sahyadri Science College
SHIVAMOGGA-577203



ESTD 1940

KUVEMPU UNIVERSITY

SAHYADRI SCIENCE COLLEGE

Shimoga

(Autonomous)


(A College with Potential for Excellence)




Department of Botany and Seed Technology
Sahyadri Science College
Shivamogga - 577203

Certificate

This is to certify that project work entitled **“Plant Propagation Activities in Nursery”** has been carried out by **Ms. Sangeetha G S1908418, Ms. Shruthi S N S1908460, Ms. Swathi H V S1908526**, Students of sixth semester BSc course under the supervision and guidance of **Mr. Gopal T D**, Assistant Professor, Dept. of Botany and Seed Technology, Sahyadri Science College, Shivamogga This project is submitted to partial fulfilment for the award of the Degree of Bachelor of Science during the academic year 2021-2022. We further clarify that the work is original and has not been submitted to any other university wholly for award of any other degrees.


PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.


Mr. Gopal T D
Assistant Professor
Head of the Dept. of Botany and
Seed Technology
Sahyadri Science College [Auto],
Shivamogga.

Date:

Place: Shivamogga



KUVEMPU UNIVERSITY
SAHYADRI SCIENCE COLLEGE
Shimoga
(A College with Potential for Excellence)



Department of Botany
Sahyadri Science College Shivamogga

CERTIFICATE

This is a certify that, Allan Rekshkith J, Arva Tharun T. M, Prasad U, Renuka H. R and Soundarya V, has satisfactorily completed the project work entitled "**A STUDY ON CULTIVATION OF ZEA MAYS L.**" submitted in partial fulfillment of the requirement for the award of degree in Bachelor of Science [B.Sc], prescribed by the Kuvempu university, Shivamogga, During the academic year 2021-22.

We further certified that this work has not been submitted anywhere else for the award of any degree .

PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.

Head of the Department

Mr. Gopala T D

HOD

Department of Botany and Seed Technology
Sahyadri Science College
Shivamogga

B. Sc., Degree Botany Major

Practical Record I/II.

Submitted at the University

Department of Botany, Shivamogga, 19

Examiner: 1.

Date of Submission

Centre: SAHYADRI COLLEGE, SHIMOGA

External Examiner





KUVEMPU UNIVERSITY
SAHYADRI SCIENCE COLLEGE
Shimoga
(A College with Potential for Excellence)





Department of Botany
Sahyadri Science College Shivamogga

CERTIFICATE

This is a certify that, Bhoomika P, Divya R, Divya S E, Harshitha K M and Janani N N has satisfactorily completed the project work entitled **"STUDIES ON FOOD ADULTERATION"** submitted in partial fulfillment of the requirement for the award of degree in Bachelor of Science [B.Sc], prescribed by the Kuvempu university, Shivamogga, During the academic year 2021-22.

We further certified that this work has not been submitted anywhere else for the award of any degree .


PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.


Head of the Department

Sri. Gopala T D
HOD

Department of Botany and Seed Technology
Sahyadri Science College
Shivamogga

B. Sc. Degree Botany Major

Practical Record I/II.

Valued as the University

Exam. of April/Sept. 19

Examination: I.

.....

Date of Examination:

Centre: SAHYADRI COLLEGE, SHIMOGA

External examiner

8. 11. 2022





KUVEMPU UNIVERSITY
SAHYADRI SCIENCE COLLEGE
Shimoga
(A College with Potential for Excellence)



Department of Botany
Sahyadri Science College Shivamogga

CERTIFICATE

This is a certify that, Chetan C Malladada, Hemanth S P, Jayachandu M E, and Shwetha S H has satisfactorily completed the project work entitled "**STUDY OF ORNAMENTAL PLANTS**" submitted in partial fulfillment of the requirement for the award of degree in Bachelor of Science [B.Sc], prescribed by the Kuvempu university, Shivamogga, During the academic year 2021-22.

We further certified that this work has not been submitted anywhere else for the award of any degree.

PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.

Project Guide

Sri. Gopala T D

Assistant Professor

Department of Botany and Seed Technology
Sahyadri Science College
Shivamogga

Date: 8/11/2022

Place: Shivamogga

External Examiner





KUVEMPU UNIVERSITY
SAHYADRI SCIENCE COLLEGE
 Shimoga
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Department of Botany
Sahyadri Science College Shivamogga

CERTIFICATE

This is a certify that **POOJA GANAPATI BHANDARI, SAHANA B C, ANUSHA A R, VEENA M V** has satisfactorily completed the project work entitled "**AN INSIGHT IN TO THE ORGANIC FARMING**" submitted in partial fulfillment of the requirement for the award of degree in Bachelor of Science [B.Sc], prescribed by the Kuvempu university, Shivamogga, During the academic year 2022-23.

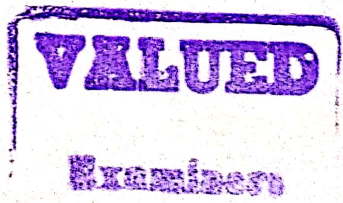
We further certified that this work has not been submitted anywhere else for the award of any degree .

Degree Botany Major
 Record I/II.
 Awarded at the University
 Term of April/Sept.
 Examiners: 1. _____
 2. _____
 Date of Examination _____
 Centre SAHYADRI COLLEGE, SHIMOGA

Principal
PRINCIPAL
 SAHYADRI SCIENCE COLLEGE
 (Constituent College of Kuvempu University)
 SHIMOGA, Karnataka State
Saukya
Head of the Department
Mr. Gopala T D
 HOD

Department of Botany and Seed Technology
Sahyadri Science College
Shivamogga

External Examiner



KUVEMPU



UNIVERSITY

SAHYADRI SCIENCE COLLEGE

SHIVAMOGGA

DEPARTMENT OF BOTANY

CERTIFICATE:

This is to certify Mr, Charan K M, Mr. Darshan Khola K M, Ms. Ganavi N, Mr. Hemanth G N, Ms. Inchara H S Studying in B.Sc. 6th Semester [CBZ] in Sahyadri Science College, Shivamogga. Carried out a project work entitled "**STUDY ON SOME AQUATIC PLANTS**" Towards the partial fulfilment prescribed for the award of Bachelor Degree by the KUVEMPU UNIVERSITY, Shankaraghatta. During the academic year 2022-2023.

Handwritten signature of Dr. Krishna Swamy K in blue ink.

Dr. Krishna Swamy K
Associate Professor & Research Supervisor
Department of Botany
Sahyadri Science College, Kuvempu University
Shimoga - 577203

Handwritten signature of Dr. Gopal T D in blue ink.

HEAD OF THE DEPARTMENT

Dr. Gopal T D
Associate professor
Department of Botany
Sahyadri science college
Shivamogga.

Handwritten signature of the Principal in blue ink.

PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.

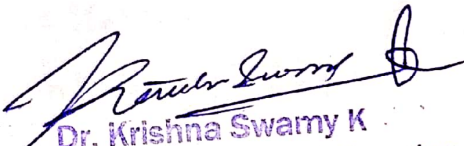
Date:

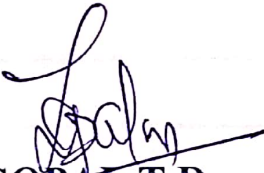
Place: Shivamogga




CERTIFICATE

This is to certify that the project entitled "STUDIES ON SOME ORNAMENTAL PLANTS" submitted by **CHAITRA D, CHAITHRA H S, CHITHRA C, KEERTHANA M, KEERTHI K** of VI semester students under my guidance and supervision towards partial fulfilment of the required for the award of Bachelor of Science by the Sahyadri Science College during the year 2022-23.


Dr. Krishna Swamy K
Associate Professor & Research Supervisor
Department of Botany
Sahyadri Science College, Kuvempu University
Shimoga - 577203


GOPAL T D
Chairman
Department of Botany
Sahyadri Science College,
Shivamogga.


PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGGA, Karnataka State.



Kuvempu University
ಕುವೆಂಪು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ



Sahyadri Science College
Shivamogga
Department of Botany

Certificate

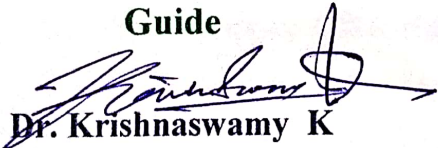
This is to certify that the project work entitled **“Study of Orchids”** in Botany in bona fide project work carried out for practical in Botany at Kuvempu University during the year 2022-23.

SUBMITTED BY

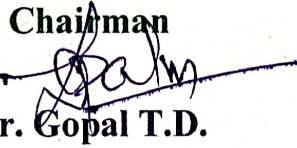
Bhoomika T.K. (S2008099)
Deekshith K.M. (S2008143)
Jahnavi H. Sankoor (S2008207)
Jeevan M.S (S2008211)
Keerthana H.T (S2008233)

Students of Final Year B.Sc (CBZ) under the supervision and guidance of

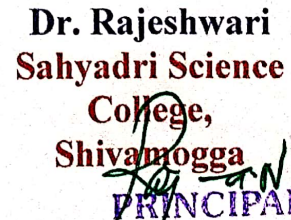
Guide


Dr. Krishnaswamy K
Dept of Botany
Sahyadri Science
College, Shivamogga

Chairman


Dr. Gopal T.D.
H.O.D of Botany Dept
Sahyadri Science
College,
Shivamogga

Principal


Dr. Rajeshwari
Sahyadri Science
College,
Shivamogga
PRINCIPAL

Dr. Krishna Swamy K

Examiner
As an Examiner & Research Supervisor
Department of Botany
Sahyadri Science College, Kuvempu University
Shimoga - 577203

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGGA, Karnataka State





KUVEMPU UNIVERSITY
SAHYADRI SCIENCE COLLEGE
 SHIVAMOGGA
 (A College with Potential for Excellence)



Department of Botany
 Sahyadri Science College
 Shivamogga -577203

CERTIFICATE

This is to certify that the project entitled "PHOTOGRAPHIC FLORA OF SAHYADRI SCIENCE COLLEGE CAMPUS " submitted by **Monisha H, Pragathi H M, Priyanka R, Radhika M, Sahana S V** of 6th semester student under our guidance and supervision towards partial fulfillment of the required for the award of Science by the Sahyadri Science College during the year 2022-2023


Mr. Naveen H E

Assistant Professor
 Department of BOTANY
 Sahyadri Science College
 Shivamogga

Dr. Goptal T D

Chairman
 Department of BOTANY
 Sahayadri Science College
 Shivamogga


Date:

Place: Shivamogga


PRINCIPAL
 SAHYADRI SCIENCE COLLEGE
 (Constituent College of Kuvempu University)
 SHIVAMOGGA, Karnataka State.

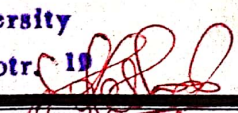
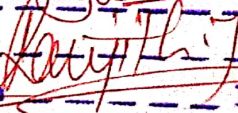

 19/08/23

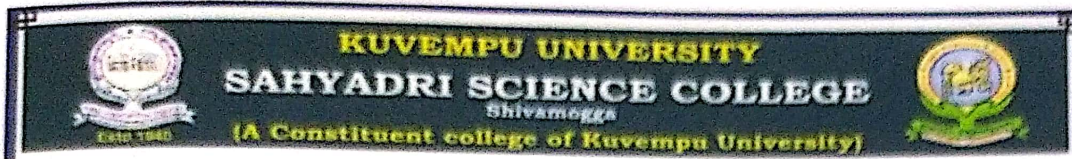
External examiner:

VALUED

Examiners

B. Sc., Degree Botany Major
Practical Record I/II.

Valued at the University
 Examn of April/Sepr. 19

Examiners: 1. 
 2. 
 Date of Examination _____ 19



SAHYADRI SCIENCE COLLEGE

SHIVAMOGGA

CERTIFICATE

This is to certify that the project entitled "Establishment of medicinal plant garden" submitted by C G VINUSHA, DIVYA JYOTHI K V, HALES M C, HARSHIT A, JAYASHREE L M of VI semester students under my guidance and supervision towards partial fulfilment of the required for the award of Bachelor of Science by the Sahyadri Science College during the year 2022-23.

Handwritten signature of Dr. Krishna Swamy K

Dr. Krishna Swamy K
Associate Professor & Research Supervisor
Department of Botany
Sahyadri Science College, Kuvempu University
Shimoga - 577203

Handwritten signature of Dr. Gopal T D

Dr. GOPAL T D

Sri Gopal T.)

Chairman

Department of Botany and Botanyology

Sahyadri Science College
SHIVAMOGGA-577203

Shivamogga

Handwritten signature of Principal

PRINCIPAL

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.



Kuvempu University
ಕುವೆಂಪು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ



Sahyadri Science College
Shivamogga
Department of Botany

Certificate

This is to certify that the project work entitled "**Study of Bamboo**" in Botany in bona fide project work carried out for practical in Botany at Kuvempu University during the year 2022-23.

SUBMITTED BY

Prema Y.	(S2008369)
Prathana H.P.	(S2008362)
Rakshitha K.B.	(S2008398)
Rani S.R	(S2008407)

Students of Final Year B.Sc (CBZ) under the supervision and guidance of

Guide

Dr.Sunil Kumar T.V.
Dept of Botany
Sahyadri Science
College, Shivamogga

Chairman

Dr. Gopal T.D.
H.O.D of Botany Dept
Sahyadri Science
College,
Shivamogga

Principal

PRINCIPAL
Dr. Rajeshwari
Sahyadri Science
College,
Shivamogga

Examiner





KUVEMPU UNIVERSITY
SAHYADRI SCIENCE COLLEGE
 Shimoga
 (A College with Potential for Excellence)



Department of Botany
Sahyadri Science College Shivamogga

CERTIFICATE

This is a certify that, KRUTHIKA S NAIK, SHRESHTA S, SHREYA NAGARAJ SHET, KAVYA K has satisfactorily completed the project work entitled "**AGRONOMIC PRACTICES ON CASHEW.**" submitted in partial fulfillment of the requirement for the award of degree in Bachelor of Science [B.Sc], prescribed by the Kuvempu university, Shivamogga, During the academic year 2022-23.

We further certified that this work has not been submitted anywhere else for the award of any degree .

Major: Botany Major:

Practical Record I/II.

Awarded at the University

Month of April/Sept. 19

Examiners: 1. _____

2. _____

Date of Examination

Centre: SAHYADRI COLLEGE SHIVMOGGA

Rajan
PRINCIPAL

SAHYADRI SCIENCE COLLEGE
 (Constituent College of Kuvempu University)
 SHIMOGGA, Karnataka State.

Saujanya
Head of the Department

21/8/23
Mr. Gopala T D

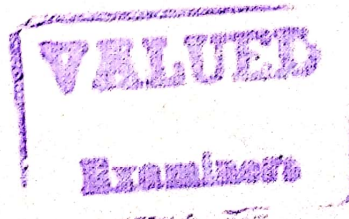
HOD

Department of Botany and Seed Technology

Sahyadri Science College

Shivamogga

External Examiner




KUVEMPU UNIVERSITY

SAHYADRI SCIENCE COLLEGE

(Constituent College of Kuvempu University)

SHIVAMOGGA

CERTIFICATE

This is to certify that the project report entitled "**DIVERSITY OF ORCHIDS IN THIRTAHALLI**" submitted by Ms. ANUSHA A C, Ms. INCHARA K V, Ms. JYOTHI M, Ms. NISARGA T S, Mr. RAKSHITH K T for the degree of "Bachelor of Science" from Kuvempu University, is the result of project work carried out by them in the Department of Botany, Sahyadri Science College, Shivamogga during the academic year 2022-23.

We further declare that the results of this investigation have not been previously submitted for any degree or fellowship.


PRINCIPAL

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIVAMOGGA, Karnataka State


Sri. GOPALAT D

Head of The Department

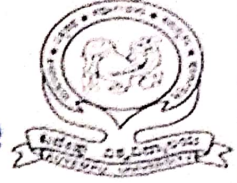
Department of Botany and Seed Technology
Sahyadri Science College
Shivamogga

Date: 14/08/23

Place: Shivamogga



ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು
Sahyadri Science College



CERTIFICATE:

This is to certify **Kiran Gowda K, Kiran K, Megharaj M L, Nandan C, Neelu G** Studying in B.Sc. 6th Semester in Sahyadri Science College, Vidya Nagar, Shivamogga. Carried out a project work entitled **“ORNAMENTAL TREES”** Towards the partial fulfilment prescribed for the award of Bachelor Degree by the KUVEMPU UNIVERSITY, Shankaraghatta. During the academic year 2022-2023 under my guidance and supervision.

Date:

Place: Shivmoagga

PROJECT GUIDE

Dr. Gopal T D

Associate Professor

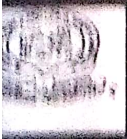
Department of Botany

Sahyadri Science College

Shivamogga.

PRINCIPAL

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.



CERTIFICATE

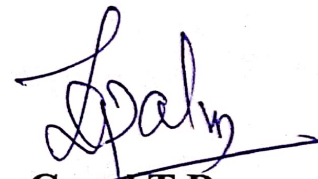
This is to certify that project work entitled “IRRITATING PLANTS” has been carried out by SUPRITHA H B (S2008534), SYEDA HUSNA ANJUM (S2008547), SYEDA SANIYA IRAM (S2008548), VISHAL NAIK R (S2008593) students of sixth semester BSc course under the supervision and guidance of Dr. RANJITH Y, Dept of Botany, Sahyadri Science College, Shivamogga. This project is submitted to partial fulfilment for the award of the Degree of Bachelor of Science during the academic year 2022-2023. We further clarify that the work is original and has not been submitted to any other university wholly for award of any other degrees.


Dr. Ranjith Y

Dept of Botany,
Sahyadri Science College
Shivamogga


PRINCIPAL

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGGA, Karnataka State.


Gopal T D

HOD Dept Of Botany
Sahyadri Science College
Shivamogga

Date: 09.11.22

Place: shivamogga



KUVEMPU UNIVERSITY
SAHYADRI SCIENCE COLLEGE
Shivamogga
(A Constituent college of Kuvempu University)



DEPARTMENT OF BOTANY

CERTIFICATE

This is to certify that the project entitled "**STUDY ON ELEPHANT APPLE FRUIT AND ITS POTENTIAL HEALTH BENEFITS**" submitted by **Thejaswini. G. M, Thanuja. B, Sushma. C. K, Thanushree. C. N. C** of the VIth semester students under my guidance and supervision towards partial fulfilment of the required for the award of Bachelor of Science by the Sahyadri Science Collage during the year 2022-23.

Rajan
PRINCIPAL

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)

Project Guide SHIMOGA, Karnataka State

Sri Gopala T D

Ranjith Y
Dr Ranjith Y

Lecturer

Dep. Of Botany and Seed

Technology

Sahyadri Science College

Shivamogga- 577203

Sri Gopala T D

Head of the Dept. of Botany and Seed

Technology

Sahyadri Science College

Shivamogga-577203

Date:

Examiner :-

Place: Shivamogga



Dr. Nagaraj Parisara
HOD & Associate Professor
Department of Environmental Science
Karnataka, India
Cell: 9901798999
Email:Parisarasmg@gmail.com

CERTIFICATE


This is to certify that the project work on “**Energy Audit: A case study to reduce electricity cost in Sahyadri Science College**” “has been carried out by **Ms. Rakshitha C and Ms. Shanmukhapriya S B.Sc. V Semester**, under my guidance, towards the partial fulfillment of the requirements for the award of Bachelor of Science in the Dept. of Environmental Science during the year 2022-2023.

Date:

Place: Shivamogga



Dr. Nagaraj Parisara
Dr. Nagaraj Parisara
Head (Guide) Department
Environmental Science
Sahyadri Science College (Autonomous)
SHIVAMOGGA-577203



(Co-Guide)



PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.



KUVEMPU UNIVERSITY
SAHYADRI SCIENCE COLLEGE
Shimoga
(A College with Potential for Excellence)



Department of Environmental Science
Sahyadri Science College
Shivamogga - 577204

CERTIFICATE

This is to certify that we are Satisfactorily completed the project work entitled **“CARBON SEQUESTRATION POTENTIAL BY URBAN TREES IN EDUCATIONAL CENTERS OF SHIVAMOGGA CITY, KARNATAKA, INDIA”** submitted in fulfilment of the requirement for the award of degree in Bachelor of Science (B.Sc.), describe by the Kuvempu University Shivamogga. During the academic year 2022-23.

We further certify the work has not been submitted anywhere else for the award of any other degree.

Submitted By

HARSHITHA.J.AKKI	(S2008190)
GEETHA.M.K	(S2008172)
DEEPAK.B.V	(S2008147)
KAVITHA.R	(S2008220)

Date: 11/04/23

Place: Shivamogga.


PRINCIPAL

SAHYADRI/SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGGA, Karnataka State.


Head of the Department:

Dr. Nagaraj Parisara PH.D.,M.Sc.
Assistant Professor and HOD

Department of Environmental Science
Sahyadri Science College
Shivamogga - 577204





KUVEMPU UNIVERSITY
SAHYADRI SCIENCE COLLEGE
Shimoga
(A College with Potential for Excellence)



Department of Environmental Science
Sahyadri Science College
Shivamogga - 577204

CERTIFICATE

This is to certify that we are Satisfactorily completed the project work entitled **“A CASE STUDY ON ENVIRONMENTAL IMPACT OF STONE QUARRYING INDIRA NAGARA SHIMOGA”** submitted in fulfilment of the requirement for the award of degree in Bachelor of Science (B.Sc.), prescribed by the Kuvempu University Shivamogga. During the academic year 2022-23.

We further certify the work has not been submitted anywhere else for the award of any other degree.

Submitted By

KARTHIK H M (S2008635)

KIRAN M (S2008245)

Date:

Place: Shivamogga.


PRINCIPAL

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.



Head of the Department:

Dr. Nagaraj Parisara Ph.D.M.Sc.

Assistant Professor and HOD

Department of Environmental Science

Sahyadri Science College

Shivamogga - 577204





KUVEMPU UNIVERSITY
SAHYADRI SCIENCE COLLEGE
Shimoga
(A College with Potential for Excellence)



Department of Environmental Science
Sahyadri Science College
Shivamogga - 577204

CERTIFICATE

This is to certify that we are Satisfactorily completed the project work entitled **“STUDY OF INTEGRATED FARMING SYSTEM IN VEERANNANA BENAVALI, SHIVAMOGGA”** submitted in fulfilment of the requirement for the award of degree in Bachelor of Science (B.Sc.), prescribed by the Kuvempu University Shivamogga. During the academic year 2022-23.

We further certify the work has not been submitted anywhere else for the award of any other degree.

Submitted By

JEEVAN. B. G (S2008210)
HARSHITHA. K. M (S2008191)
KAVYA. M. R (S2008228)

Date: 11-04-2023

Place: Shivamogga.

Head of the Department:

Dr. Nagaraj Parisara Ph.D., M.Sc.
Assistant Professor and HOD

PRINCIPAL Department of Environmental Science
SAHYADRI SCIENCE COLLEGE Sahyadri Science College
(Constituent College of Kuvempu University) Shivamogga - 577204
SHIMOGGA, Karnataka State.





KUVEMPU UNIVERSITY
SAHYADRI SCIENCE COLLEGE
Shimoga
(A College with Potential for Excellence)



Department of Environmental Science
Sahyadri Science College
Shivamogga - 577204

CERTIFICATE

This is to certify that we are Satisfactorily completed the project work entitled **“STUDY OF INTEGRATED FARMING SYSTEM IN VEERANNANA BENAVALI, SHIVAMOGGA”** submitted in fulfilment of the requirement for the award of degree in Bachelor of Science (B.Sc.), prescribed by the Kuvempu University Shivamogga. During the academic year 2022-23.

We further certify the work has not been submitted anywhere else for the award of any other degree.

Submitted By

JEEVAN. B. G (S2008210)
HARSHITHA. K. M (S2008191)
KAVYA. M. R (S2008228)

Date: 11-04-2023

Place: Shivamogga.

Jeevan
PRINCIPAL

SAHYADRI SCIENCE COLLEGE Department of Environmental Science
(Constituent College of Kuvempu University) Shivamogga - 577204
SHIMOGA, Karnataka State.

Head of the Department:

Dr. Nagaraj Parisara Ph.D./M.Sc.

Assistant Professor and HOD

Department of Environmental Science

Sahyadri Science College

Shivamogga - 577204

SHIMOGA, Karnataka State.



Dr. Nagaraj Parisara
HOD & Associate Professor
Department of Environmental Science
Karnataka, India
Cell: 9901798999
Email:Parisarasmg@gmail.com

CERTIFICATE

This is to certify that the project work on “**The collection of plant samples and preparation of Herbarium specimens in the Sahyadri College Campus**” has been carried out by Ms. Monisha H, Ms. Pragathi H.M and Priyanka R B.Sc. V Semester, under my guidance, towards the partial fulfillment of the requirements for the award of Bachelor of Science in the Dept. of Environmental Science during the year 2022-2023.

Date:

Place: Shivamogga



Dr. Nagaraj Parisara

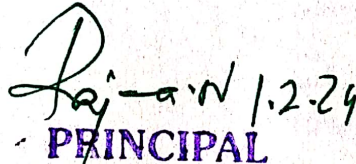
Dr. Nagaraj Parisara
Head (Guide) Department
Environmental Science

Sahyadri Science College (Autonomous)
SHIVAMUGGA-577203



Dr. Manjunath S

(Co-Guide)



1.2.24
PRINCIPAL

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.

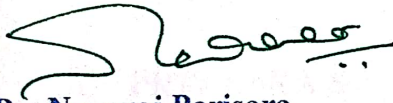
Dr. Nagaraj Parisara
Chairman & Associate Professor
Department of Environmental Science
Karnataka, India
Cell: 9901798999
Email:Parisarasmg@gmail.com

CERTIFICATE

This is to certify that the project work on “**Integrated farming practice: A solution for future Sustainable Agriculture**” has been carried out by **Ms. Priyanka S, Ms. Surabhi K and Ms. Varshitha M B.Sc. V Semester**, under my guidance, towards the partial fulfillment of the requirements for the award of Bachelor of Science in the Dept. of Environmental Science during the year 2022-2023.

Date:

Place: Shivamogga



Dr. Nagaraj Parisara

Dr. Nagaraj Parisara
Head (Guide) Department
Environmental Science
Sahyadri Science College (Autonomous)
SHIVAMOGGA-577203



Dr. Manjunath S

(Co-Guide)



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SAHYADRI SCIENCE COLLEGE
Shimoga
(A College with Potential for Excellence)



Department of Environmental Science
Sahyadri Science College
Shivamogga - 577204

CERTIFICATE

This is to certify that we are Satisfactorily completed the project work entitled **“PRELIMINARY STUDY ON AQUATIC PLANTS OF PURALE POND”** submitted in fulfilment of the requirement for the award of degree in Bachelor of Science (B.Sc.), prescribed by the Kuvempu University Shivamogga. During the academic year 2022-23.

We further certify the work has not been submitted anywhere else for the award of any other degree.

Submitted By

AKASH M	(S2008023)
ANKITHA R	(S2008044)
BASAVARAJ S S	(S2008083)

Date: 11/04/2023

Place: Shivamogga.

Rajiv
PRINCIPAL

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGGA, Karnataka State.

Head of the Department:

Dr. Nagaraj Parisara Ph.D.M.Sc.

Assistant Professor and HOD
Department of Environmental Science

Sahyadri Science College
Shivamogga - 577204



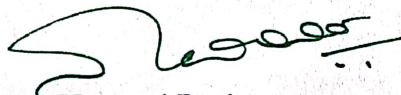
Dr. Nagaraj Parisara
HOD & Associate Professor
Department of Environmental Science
Karnataka, India
Cell: 9901798999
Email: Parisarasmg@gmail.com

CERTIFICATE

This is to certify that the project work on “**The study of Water audit in Sahyadri Science College, Shivamogga: A case study**” “has been carried out by **Radhika M, Sahana M. V and Sneha H.R B.Sc. V Semester**, under my guidance, towards the partial fulfillment of the requirements for the award of Bachelor of Science in the Dept. of Environmental Science during the year 2022-2023.

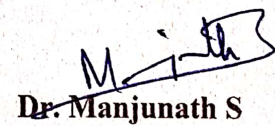
Date:

Place: Shivamogga



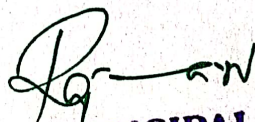
Dr. Nagaraj Parisara

Dr. Nagaraj Parisara
(Guide)
Head of the Department
Environmental Science
Sahyadri Science College (Autonomous)
SHIMOGGA-577203



Dr. Manjunath S

(Co-Guide)



PRINCIPAL
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SHIMOGGA, Karnataka State.

Dr. Nagaraj Parisara
Chairman & Associate Professor
Department of Environmental Science
Karnataka, India
Cell: 9901798999
Email: Parisarasmg@gmail.com

CERTIFICATE

This is to certify that the project work on **“The current status of Solid Waste Management in Holalur Gram Panchayat, Shivamogga District”** “has been carried out by **Mr. Prathik R Shetty, Mr. Raghavendra T G and Mr. Prajwal O B.Sc. V Semester**, under my guidance, towards the partial fulfillment of the requirements for the award of Bachelor of Science in the Dept. of Environmental Science during the year 2022-2023.

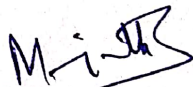
Date: 11/04/2023

Place: Shivamogga



Dr. Nagaraj Parisara

Dr. Nagaraj Parisara
(Guide)
Head of the Department
Environmental Science
Sahyadri Science College (Autonomous)
SHIVAMOGGA-577203


Dr. Manjunath S

(Co-Guide)


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SHIMOGA, Karnataka State.



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SAHYADRI SCIENCE COLLEGE
Shivamogga
(A Constituent college of Kuvempu University)



DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that the project work on **"SEX SORTED SEMEN TECHNOLOGY IN CATTLE IN AND AROUND SHIVAMOGGA"** has been carried out **SINCHANA KY, SNEHA R M, SUPRIYA K H, RAKSHITHA K R, YASHASWINI K V** and **SANJAY KS**, under the guidance of **Mr. VEERABHADRA SWAMY** Lecturer. Dept of Zoology towards the partial fulfillment of the requirement for the award of degree in bachelor of science by the Sahyadri science college during the year 2022-2023

PRINCIPAL

Date:

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.

Place: Shivamogga

Dr. ASHASHREE. Msc., Phd

Dr. Ashashree H.M.
Head of the Dept. Zoology
Chairman

Sahyadri Science College
Dept. of Zoology

Sahyadri Science College,
SHIMOGA.

KUVEMPU UNIVERSITY
SHAYADRI SCIENCE COLLEGE, SHIVAMOGGA

DEPARTMENT OF ZOOLOGY

A PROJECT REPORT ON
“COMMON DISEASE OF VITILIGO IN SHIVAMOGGA”
A PRELIMINARY STUDY

Submitted to the Department of Zoology, Sahyadri Science College, Shivamogga for the partial fulfillment of the requirement for the award of degree B.Sc.,

Submitted by

Amrutha.N - S2008028

Anuradha.U - S2008049

Meghana.H.D - S2008288

Swati Ramakrishna Goankar – S2008546



PRINCIPAL

SAHYADRI SCIENCE COLLEGE

(Constituent College of Kuvempu University)

SHIMOGA, Karnataka State.

Submitted to

Miss.Prithwi G. D.

DEPARTMENT OF ZOOLOGY
SAHYADRI SCIENCE COLLEGE
SHIVAMOGGA



Dr. Ashashree. H.M.

Chairman

Dept. of Zoology

Sahyadri Science College,
SHIMOGA.

2022-23



KUVEMPU UNIVERSITY



SAHYADRI SCIENCE COLLEGE, VIDYA NAGARA, SHIVAMOGGA
DEPARTMENT OF ZOOLOGY

Certificate

This is to certify **Mr.Ankith K Y, Mr.Chandan P B, Mr.Hemanth S, Mr.Suman D S, Mr. Sumanth S** Studying in B.Sc. 5th. Semester [CZBc] in Sahyadri Science College, Vidya Nagar, Shivamogga. Has out a project work entitled **"A BRIEF SURVEY ON LUMPY SKIN DISEASE"** Towards the partial fulfilment prescribed for the award of Bachelor Degree by the KUVEMPU UNIVERSITY, Shankaraghatta. During the academic year 2022 - 2023 under my guidance and supervision. This report or any part of this has not been submitted elsewhere for any other Degree or Diploma.

Date: 8/04/2023

Place: Shivamogga

PROJECT GUIDE

Dr.Ashashree H M

Associate Professor,

Department of Zoology;

Sahyadri Science College, Vidya

Nagar, Shivamogga,

Sahyadri Science College,

SHIMOGA.


PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.



ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು
Sahyadri Science College



DEPARTMENT OF ZOOLOGY

CERTIFICATE OF HOD

We hereby declare that the project entitled **“PREVALENCE OF COLOUR BLINDNESS AMONG SCHOOL AND COLLEGE STUDENTS IN SHIVAMOGGA”** submitted by **SANJANA.S, SHREYAS.S, SINCHANA D, SYEDA HUSNA ANJUM, SYEDA SANIYA IRAM**, to the Department of Zoology, Sahyadri Science College, Shivamogga for the partial fulfilment of the requirement for the degree of B.Sc, in the results of work carried by us under the guidance of, *Dr. K.L.Naik*

HOD

PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGGA, Karnataka State.

Place: Shivamogga

Date:

Dr. Ashashree H M

ಮುಖ್ಯಸ್ಥರು
ಪ್ರಾಚಾರ್ಯರು
ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು (ಸಹ್ಯಾದ್ರಿ)
ಶಿವಮೊಗ್ಗ - 577 203

External Examiner


KUVEMPU UNIVERSITY

Department of Zoology
Sahyadri Science College, Shivamogga

CERTIFICATE

This is to certify that the project work entitled "**BIRTH DEFECTS AND ABNORMALITIES OF BABIES**" has been carried out by **BHAVANA B H, DIVYA D K, NIRIKSHA S, AISHWARYA S, VARSHA S** students of V semester B.Sc. course under our guidance. This project is submitted to partial fulfilment for the award of the degree of "Bachelor of Science" during the academic year 2022-23.


DR. ASHASHREE H M

Head of the Department

Department of Zoology

Sahyadri Science College,

Shivamogga.

Dr. Ashashree. H.M.

Chairman

Dept. of Zoology

Sahyadri Science College,
SHIMOGA.



PRINCIPAL

SAHYADRI SCIENCE COLLEGE

(Constituent College of Kuvempu University)
SHIMOGGA, Karnataka State.

Date : 06 / 04 / 2023

Place : Shivamogga



DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that the project work entitled "A CASE STUDY ON DOWN SYNDROME IN THE SHIVAMOGGA CITY" carried out by **Chaya S G, Deeksha H S, Nagaveni M R, Sangeetha B K, Vaishnavi D Acharya, Varshitha M M.** In partial fulfillment for the award of degree of **Bachelor of Science (BSc)** in Kuvempu University during the year 2022-2023. The project have been duly approved and certified as it satisfies the academic requirements in respect of the project work prescribed for the award of said degree


PRINCIPAL

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.

Date:

Place: Shivamogga


Smt. ASHASHREE H M.

Dr. Ashashree H M.
Chairman
Sahyadri Science College
Dept. of Zoology
Shivamogga College,
SHIMOGA.

VALUED
DEPT OF ZOOLOGY
EXAMINERS

1..... 2.....



KUVEMPU UNIVERSITY
SAHYADRI SCIENCE COLLEGE
Shivamogga
(A Constituent college of Kuvempu University)



DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that the project work on **OVARIAN CANCER** has been carried out **UMA M SHIRAHATTI, SHAMA R N, ANUSHREE Y A, PRAMEELA D B, BHOOMIKA H M and SAHANA H** under the guidance of **SINDHU. N. NAIK** Lecturer Dept. of Zoology towards the partial fulfillment of the requirement for the award of degree in bachelor of science by Sahyadri Science college during the year 2022-2023

PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.

Date:

Place: Shivamogga

Mrs. ASHASHREE M.Sc., Phd

Head of the Dept. Zoology
Sahyadri Science College
Shivamogga



KUVEMPU UNIVERSITY
SAHYADRI SCIENCE COLLEGE
Shivamogga
(A Constituent college of Kuvempu University)



DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that the project work on **“A STUDY ON VERMICULTURE AND PRODUCTION OF VERMICOMPOSTING”** has been carried out **TEJAS Y P, SANGAM C M, YASHWANTH H, ADITHYA L T, THIPPESH YADAV K M, SOHAN C T** under the guidance of **JEEVAN E. N** Lecturer Dept. of Zoology towards the partial fulfillment of the requirement for the award of degree in bachelor of science by Sahyadri Science college during the year 2021-2022


PRINCIPAL

Date:
Place: Shivamogga

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)

SHIMOGA, Karnataka State.


Mrs. ASHASHREE. Msc., Phd

~~Chairman~~
Chairman
Sahyadri Science College
Dept. of Zoology
Shivamogga
Sahyadri Science College,
SHIMOGA.



KUVEMPU UNIVERSITY
SAHYADRI SCIENCE COLLEGE
SHIMOGA
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Department of Zoology
Sahyadri Science College
Shivamogga -577203

CERTIFICATE

This is to certify that the project entitled "A CASE STUDY ON MANAGEMENT OF BIRDS IN SRI CHAMARAJENDRA ZOOLOGICAL GARDEN MYSORE, KARNATAKA" submitted by **Sujay S M, Sonu B, Ramesh N A and Vinay C**, of 5th semester student under our guidance and supervision towards partial fulfillment of the required for the award of Science by the Sahyadri Science College during the year 2022-2023

 15/04/23.
Mr. Jeevan E M

Assistant Professor
Department of Zoology
Sahyadri Science College
Shivamogga


Dr. Ashashree H M

Dr. Ashashree. H.M.
Chairman
Dept. of Zoology
Department of Zoology
Sahyadri Science College,
Sahyadri Science College
SHIMOGA.
Shivamogga


PRINCIPAL

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.

Date:

Place: **Shivamogga**


External examiner:

Department of zoology
Sahyadri Science College, Shivamogga


CERTIFICATE

This is to certify that the Project entitled "**COW URINE, DUNG ANALYSIS AND PROCESSING OF ITS BY-PRODUCTS**" submitted by Ms. Likhithaveni K, Ms. Pragathi R Shetty, Ms. Ananya S N, Ms. Chandrika B S, Ms. Pavithra J for the degree of "Bachelor of Science" from Kuvempu University, is the result of the Project work carried out by her in the Department of Zoology, Sahyadri Science College, Shivamogga. under the guidance of **Mr. Darshan Kumar T** during the period 2022-23.

I further declare that the results of this investigation have not been previously submitted for any degree or fellowship.


PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.

Signature of the HOD


Mrs. ASHASHREE H M
Head of Department
Dr. Ashashree H.M.
Chairman
Department of ZOOLOGY
Sahyadri Science College
Dept. of Zoology
Shivamogga-577 303
Sahyadri Science College,
SHIMOGA.

Date:

Place: Shivamogga

KUVEMPU UNIVERSITY

Department of Biotechnology

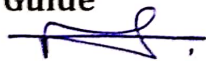
Sahyadri Science College, Shivamogga

CERTIFICATE

This is to certify that the dissertation entitled "OMICS IN BIOTECHNOLOGY" submitted by Ms. Uma M Shirahatti for the degree of "Bachelor of Science" from Kuvempu University, is the result of the Dissertation work carried out by her under the guidance of Dr. Prabhakar B T, Associate Professor Department of Biotechnology, Sahyadri Science College, Shivamogga. during the period 2022-23.

I further declare that the results of this investigation have not been previously submitted for any degree or fellowship.

Guide



Dr. PRABHAKAR B T

Associate Professor

Department of Biotechnology

Sahyadri Science College

Shivamogga-577 203

Head of the Department



Prof. RAMESH C. K

Professor

Department of Biotechnology

Sahyadri Science College

Shivamogga-577 203

PRINCIPAL

SAHYADRI SCIENCE COLLEGE

(Autonomous College of Kuvempu University)

SHIMOGGA, Karnataka

Date:

Place: Shivamogga

VALUED

Date... 23-8-23

Examiner

- 1) 
- 2) 


KUVEMPU UNIVERSITY

Department of Biotechnology

Sahyadri Science College, Shivamogga

CERTIFICATE

This is to certify that the dissertation entitled "**PITUITARY HORMONES**" submitted by **Ms. SOUNDARYA S** for the degree of "Bachelor of Science" from Kuvempu University, is the result of the Dissertation work carried out by her in the Department of Biotechnology, Sahyadri Science College, Shivamogga. under the guidance of **Ms. ASHA RANI G H** during the period 2022-23.

I further declare that the results of this investigation have not been previously submitted for any degree or fellowship.

ASHA RANI GH
17/07/2023
Guide

Ms. ASHA RANI GH

Lecturer

Department of Biotechnology

Sahyadri Science College

Shivamogga-577 203

Ramesh C. K.

Head of the Department

Dr. RAMESH C. K

Dr. RAMESH C.K. Ph.D.
Professor

Department of Biotechnology

Sahyadri Science College

Shivamogga-577 203, Karnataka.

Shivamogga-577 203

Ramesh C. K.
PRINCIPAL

SAHYADRI SCIENCE COLLEGE

Constituent College of Kuvempu University

SHIMOGA, Karnataka State.

VALUED

Date: 23/8/23

Examiner

- 1) *Dr. Mahesh*
- 2) *[Signature]*

Date: 17/7/2023

Place: Shivamogga


KUVEMPU UNIVERSITY

Department of Biotechnology
Sahyadri Science College, Shivamogga

CERTIFICATE

This is to certify that the dissertation entitled **PROTEIN STRUCTURE & DYNAMICS** submitted by **Ms. Vindhya M D** for the degree of "Bachelor of Science" from Kuvempu University, is the result of the Dissertation work carried out by her in the Department of Biotechnology, Sahyadri Science College, Shivamogga, under the guidance of **Ms. Asha Rani G.H** during the period 2022-23.

I further declare that the results of this investigation have not been previously submitted for any degree or fellowship.

Guide

Agn.

Ms. ASHA RANI G.H

Lecturer

Department of Biotechnology
Sahyadri Science College
Shivamogga-577 203

Head of the Department

Ramesh C.K.

Dr. RAMESH C.K. Ph.D.

Dr. RAMESH C.K.

Professor

Department of Biotechnology
Sahyadri Science College
Shivamogga-577 203

PRINCIPAL

SAHYADRI SCIENCE COLLEGE
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SHIMOGGA, Karnataka State.

VALUED
Date: 23/8/23

Examiner

1) *A.K. Nalke*
2) *[Signature]*

Date:

Place: Shivamogga


KUVEMPU UNIVERSITY

Department of Biotechnology
Sahyadri Science College, Shivamogga

CERTIFICATE

This is to certify that the dissertation entitled "**Melatonin**" submitted by **Mr. Suraj N S** for the degree of "Bachelor of Science" from Kuvempu University, is the result of the Dissertation work carried out by **Suraj N S** in the Department of Biotechnology, Sahyadri Science College, Shivamogga. under the guidance of **Prof, Ramesh C K** during the period 2022-23.

I further declare that the results of this investigation have not been previously submitted for any degree or fellowship.

Guide

Prof, Ramesh C K

Department of Biotechnology
Sahyadri Science College
Shivamogga-577 203

Head of the Department



PRINCIPAL Dr. RAMESH C. K

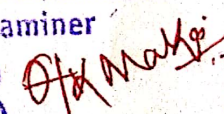

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SHIMOGA, Karnataka State.

Department of Biotechnology
Sahyadri Science College
Shivamogga-577 203

Date:

Place: Shivamogga

VALUED
Date: **23-8-23**
Examiner
1) 
2) 


KUVEMPU UNIVERSITY

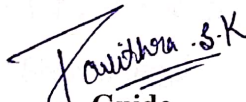
Department of Biotechnology

Sahyadri Science College, Shivamogga

CERTIFICATE

This is to certify that the dissertation entitled **“APOPTOSIS”** submitted by **Ms. Bhoomika G H** for the degree of “Bachelor of Science” from Kuvempu University, is the result of the Dissertation work carried out by her in the Department of Biotechnology, Sahyadri Science College, Shivamogga. under the guidance of **Ms. Pavithra S.K** during the period 2022-23.

I further declare that the results of this investigation have not been previously submitted for any degree or fellowship.


Guide

Ms. PAVITHRA S K

Lecturer

Department of Biotechnology

Sahyadri Science College

Shivamogga-577 203


PRINCIPAL

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SHIMOGGA, Karnataka State.



Head of the Department

Dr. RAMESH C. K.

Dr. RAMESH C.K. Ph.D.

Professor

Department of Biotechnology

Department of Biotechnology

Shivamogga-577203, Karnataka

Sahyadri Science College

Shivamogga-577 203

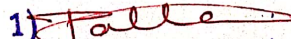
Date: 17/7/23

Place: Shivamogga

VALUED

Date: 23/08/23

Examiner

1) 

2) 


KUVEMPU UNIVERSITY

Department of Biotechnology

Sahyadri Science College, Shivamogga

CERTIFICATE

This is to certify that the dissertation entitled "**THE HUMAN MICROBIOME**" submitted by **Ms. BHAVANA H B** for the degree of "Bachelor of Science" from Kuvempu University, is the result of the Dissertation work carried out by her in the Department of Biotechnology, Sahyadri Science College, Shivamogga. under the guidance of **Ms. ASHA RANI G H** during the period 2022-23.

I further declare that the results of this investigation have not been previously submitted for any degree or fellowship.

ASHA RANI GH
17/07/2023
Guide

[Signature]

[Signature]

Head of the Department

Ms. ASHA RANI GH PRINCIPAL

Dr. RAMESH C. K

Lecturer

SAHYADRI SCIENCE COLLEGE

Dr. RAMESH C.K. Ph.D.

Constituent College of Kuvempu University

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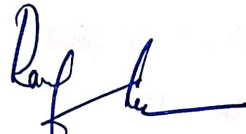
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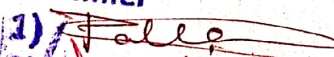


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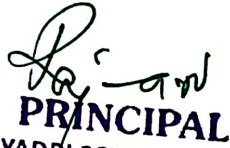

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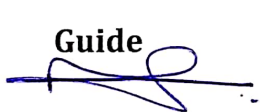
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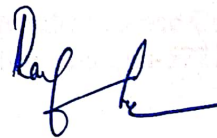
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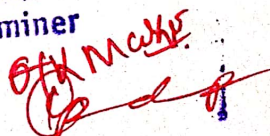
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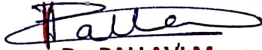
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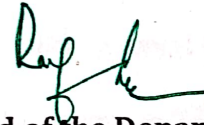
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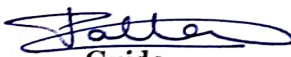

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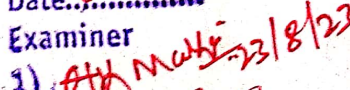
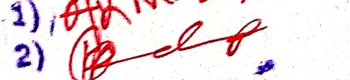
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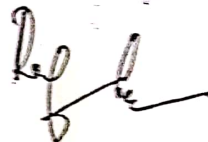
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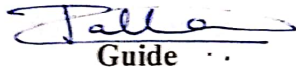
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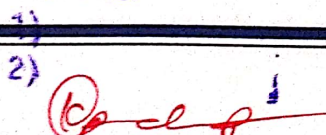
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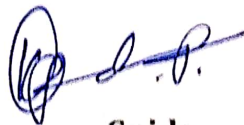

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Dr.RAMESH C.K. PhD.

PROFESSOR

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Date:

Place: Shivamogga

VALUED

Date... 23-8-23

Examiner

1) 

2) 


KUVEMPU UNIVERSITY

Department of Biotechnology
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CERTIFICATE

This is to certify that the dissertation entitled **PROTEOMICS** submitted by **Ms. Inchara K V** for the degree of "Bachelor of Science" from Kuvempu University, is the result of the Dissertation work carried out by her in the Department of Biotechnology, Sahyadri Science College, Shivamogga, under the guidance of **Dr. Prdeepa K** during the period 2022-23.

I further declare that the results of this investigation have not been previously submitted for any degree or fellowship.


11/7/23

Guide

Dr. PRADEEPA K

Assistant Professor

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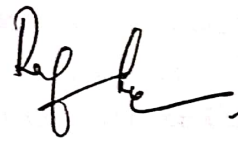

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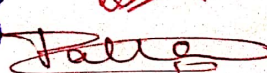
VALUED

Date: 23/08/23

Date: 23/8/23

Examiner

1) 

2) 

Place: Shivamogga


KUVEMPU UNIVERSITY

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CERTIFICATE

This is to certify that the dissertation entitled **OMEGA-3 FATTY ACIDS** submitted by **Ms. Bhumika H R** for the degree of "Bachelor of Science" from Kuvempu University, is the result of the Dissertation work carried out by her in the Department of Biotechnology, Sahyadri Science College, Shivamogga. under the guidance of **Dr. Ramesh C K** during the period 2022-23.

I further declare that the results of this investigation have not been previously submitted for any degree or fellowship.


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Date: 7/7/23

Place: Shivamogga


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CERTIFICATE

This is to certify that the dissertation entitled **PLANT SECONDARY METABOLITES** submitted by Ms. Sara Aiman I for the degree of Bachelor of science from Kuvempu University, is the result of the dissertation work carried out by her in the Department of Biotechnology, Sahyadri Science College, Shivamogga, under the guidance of **Dr. Pradeep K** during the period of 2022-23.

I further declare that the results of this investigation have not been previously for any degree or fellowship.



Guide

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Dr. M. K. M. M. M.




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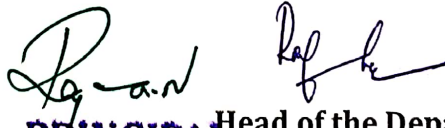
CERTIFICATE

This is to certify that the dissertation entitled **PRINCIPLE AND APPLICATION OF ANTIGEN AND ANTIBODY INTERACTIONS** submitted by **Mr. Yashwanth V** for the degree of "Bachelor of Science" from Kuvempu University, is the result of the Dissertation work carried out by him in the Department of Biotechnology, Sahyadri Science College, Shivamogga, under the guidance of **Ms. Pavithra S K** during the period 2022-23.

I further declare that the results of this investigation have not been previously submitted for any degree or fellowship.


Guide

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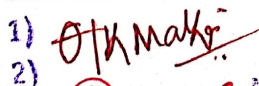
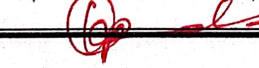

PRINCIPAL

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CERTIFICATE

This is to certify that the dissertation entitled "**MICROFLUDIC APPROCHES FOR ANTIBIOTIC DISCOVERY**" submitted by **Ms. KOMALA PRIYA** for the degree of "Bachelor of Science" from Kuvempu University, is the result of the Dissertation work carried out by her in the Department of Biotechnology, Sahyadri Science College, Shivamogga. under the guidance of **Dr. PRABHAKAR B.T** during the period 2022-23.

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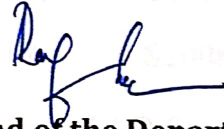
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CERTIFICATE

This is to certify that the dissertation entitled **“BIOTECHNOLOGY IN LIVESTOCK REPRODUCTION”** submitted by **Ms.Chaya S.G** for the degree of “Bachelor of Science” from Kuvempu University, is the result of the Dissertation work carried out by her in the Department of Biotechnology, Sahyadri Science College, Shivamogga. under the guidance of **Dr. Pallavi M** during the period 2022-23.

I further declare that the results of this investigation have not been previously submitted for any degree or fellowship.


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Date: 12-07-2023

Place: Shivamogga

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Date...23/07/23

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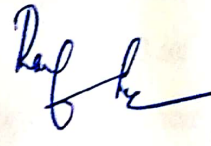
CERTIFICATE

This is to certify that the dissertation entitled **PLANT SECONDARY METABOLITES** submitted by Ms. Sara Aiman I for the degree of Bachelor of science from Kuvempu University, is the result of the dissertation work carried out by her in the Department of Biotechnology, Sahyadri Science College, Shivamogga, under the guidance of Dr. Pradeep K during the period of 2022-23.

I further declare that the results of this investigation have not been previously for any degree or fellowship.



Guide

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Department of Biotechnology

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Sahyadri Science College

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Shivamogga- 577203

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Place: Shivamogga

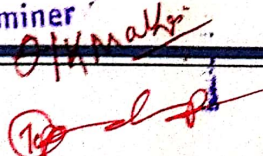
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CERTIFICATE

This is to certify that the dissertation entitled "**DNA SEQUENCING METHODS**" submitted by **Mr. Sachin S** for the degree of "Bachelor of Science" from Kuvempu University, is the result of the dissertation work carried out by him in the Department of Biotechnology, Sahyadri Science College, Shivamogga. Under the guidance of **Dr. Prabakar B T** during the period 2022-23.

I further declare that the results of this investigation have not been previously submitted for any degree or fellowship.

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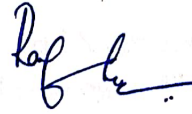
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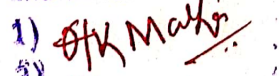

Date:

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Date: **23-8-23**

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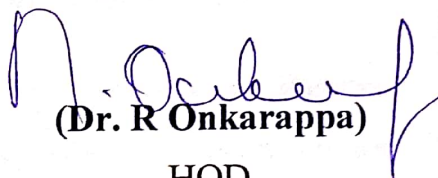
Email: onkarappa.r@gmail.com

Certificate

This is to certify that the project report entitled "*Isolation, Screening and Optimization of Streptomyces spp. For the production of Amylase*" has been carried out by **NAGARAJA A M** B.Sc. VI Semester, Student under the guidance of **Dr. R Onkarappa.**, Professor, Department of Studies and Research in Microbiology, Kuvempu University towards the partial fulfilment of the requirements for the award of the degree of **Bachelor of Science in Microbiology**, Sahyadri Science College, Shivamogga during the year 2022-23. .

Date:

Place: Shivamogga


(Dr. R Onkarappa)

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Head

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Certificate

This is to certify that the project report entitled “ISOLATION CHARACTERIZATION AND SCREENING OF *STREPTOMYCES* SP. FOR THE PRODUCTION ANTIFUNGAL VOLATILE COMPOUNDS AGAINST *COLLECTOTRICHUM* SP.OF PEPPER LEAVES” has been carried out by **DEEPIKA A M, DIVYA D K, HARSHINI G P, HARSHITHA G P, NAGASHREE D, PRIYANKA S.** B.Sc. VI Semester, Students under the guidance of **Dr. R. ONKARAPPA**, Professor, Department of Studies and Research in Microbiology, Kuvempu University towards the partial fulfilment of the requirements for the award of the degree of **Bachelor of Science in Microbiology**, Sahyadri Science College, Shivamogga during the year 2022-23.

Date:

Place: Shivamogga


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Certificate

This is to certify that the project report entitled “Isolation, Screening and Optimization of *Streptomyces* spp. for the production of Catalase” has been carried out by **BHOOMIKA P, REKHA M P, ROHAN P, ROHIT K P** and **SHIVANI K N** B.Sc. VI Semester, Students, Department of Studies and Research in Microbiology, Sahyadri Science College, Kuvempu University, Shivamogga under my guidance towards the partial fulfilment of the requirements for the award of the degree of **Bachelor of Science in Microbiology**, Sahyadri Science College, Kuvempu University during the year 2022-23



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HOD
Head

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Date: 24-08-23

Place: Shivamogga


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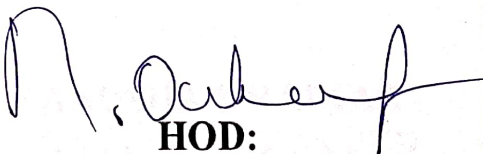
CERTIFICATE

We hereby declare that, the project report entitled "IMPACT OF GINGER (*Zingiber officinale*) CULTIVATION ON SOIL FERTILITY AND ITS ANTI-MICROBIAL PROPERTIES" has been carried out by ANUSHA S RAIKAR, SAYED KAIF JAVED, SHASHANK T M, SHOBHITH N J, VINOD KUMAR C S. B.Sc VI Semester students, Department of Studies and Research in Microbiology, Sahyadri Science College, Shivamogga, Kuvempu University. Under guidance of Mrs. RAJESHWARI K Lecture, Department of Studies and Research in Microbiology, Sahyadri Science College, Shivamogga, Kuvempu University. towards the partial fulfillment of requirement for the award of degree of Bachelor of Science in Microbiology, Sahyadri Science College, Shivamogga, Kuvempu University, During the year 2022-23.

Date :

Place : Shivamogga


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Certificate

This is to certify that the project report entitled “**ANTIMICROBIAL ACTIVITY ON PLANT EXTRACT**” has been carried out by **AMRUTHA.N, ANURADHA.U, FATHIMATHU RAJA. P, MEGHANA. H. D, SWATI RAMAKRISHNA GOANKAR.** B.Sc. VI Semester, Students under the guidance of **Ms. Shilpa S**, Lecturer, Department of Studies and Research in Microbiology, Kuvempu University towards the partial fulfilment of the requirements for the award of the degree of **Bachelor of Science in Microbiology**, Sahyadri Science College, Shivamogga during the year 2022-23.

A handwritten signature in blue ink, appearing to read 'R. Onkarappa', with a long horizontal line extending to the right.
(Dr. R Onkarappa)

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Date:

Place: **Shivamogga**

A handwritten signature in blue ink, appearing to read 'Rajanna', with a long horizontal line extending to the right.
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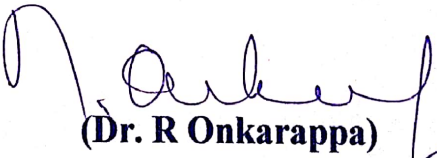
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Certificate

This is to certify that the project report entitled “**ANTIBACTERIAL ACTIVITY OF ‘MUNTINGIA CALABURA’ LEAVES AGAINST BACTERIAL SPECIES**” has been carried out by **HARSHITHA K.S, POOJA T.S, RAKSHITHA K.P, SUSHMITHA K.R** and **VINUTHA T.G.** B.Sc. VI Semester, Students under the guidance of **Mrs.RAJESHWARI K** Lecturer, Department of Studies and Research in Microbiology, Kuvempu University towards the partial fulfilment of the requirements for the award of the degree of **Bachelor of Science in Microbiology**, Sahyadri Science College, Shivamogga during the year 2022-23.


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Date: 22/8/23

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Certificate

This is to certify that the project report entitled “**Isolation, Screening and Optimization of Streptomyces spp. for the production of Catalase**” has been carried out by **BHOOMIKA P, REKHA M P, ROHAN P, ROHIT K P** and **SHIVANI K N** B.Sc. VI Semester, Students, Department of Studies and Research in Microbiology, Sahyadri Science College, Kuvempu University, Shivamogga under my guidance towards the partial fulfilment of the requirements for the award of the degree of **Bachelor of Science in Microbiology**, Sahyadri Science College, Kuvempu University during the year 2022-23

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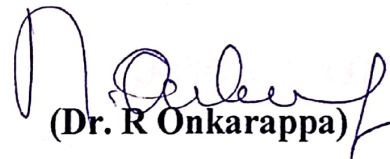
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Certificate

This is to certify that the project report entitled “STUDIES ON ANTIBACTERIAL ACTIVITY OF SELECTIVE MEDICINAL PLANTS-LEAVES EXTRACTS AGAINST SELECTIVE BACTERIAL PATHOGENS” has been carried out by **KEERTHANA G**, B.Sc. VI Semester, Student under the guidance of **Dr. N Mallikarjun.**, Professor, Department of Studies and Research in Microbiology, Kuvempu University towards the partial fulfilment of the requirements for the award of the degree of **Bachelor of Science in Microbiology**, Sahyadri Science College, Shivamogga during the year 2022-23. .


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