

**KUVEMPU**



**UNIVERSITY**

**Sahyadri Science College Shivamogga**

**Department of Industrial Chemistry**

**CERTIFICATE**

This is to certify that the project work report entitled “ Synthesis of Phthalocyanine” is carried out by Lavanya B, Prathapa K, Vandana M.T, and Chaitra N. R, the students of 4<sup>th</sup> – semester M.Sc. Industrial Chemistry, Under the guidance of Dr. Vittala Rao K S Associate Professor, Department of Chemistry, Kuvempu University, Shakargatta.

For the partial fulfillment of requirements essential for the completion of the degree, Master of Science in Industrial Chemistry in Sahyadri Science College, Shivamogga during the year 2023.

**Chairman**

**Latha K P**

**Professor**

Dept. Of Chemistry

**Guide**

**Dr. Vittala Rao K S**

**Associate Professor**

Dept. of Chemistry

**Co-ordinator**

**Dept. of Industrial Chemistry  
Post Graduate Unit  
Sahyadri Science College  
Shivamogga.  
Co-ordinator**

**Dr. Yuvaraj T. C. M.**

**Associate Professor**

Dept. of Chemistry

**Examiners**

**External Examiner**

**Raj-an  
PRINCIPAL**

**AHYADRI SCIENCE COLLEGE**

(Constituent College of Kuvempu University)

**SHIMOGA, Karnataka State.**

**Internal Examiner**

**VALUED**

1..... 20/11/2023

2..... 20/11/23

Signature of Examiners

with date



KUVEMPU



UNIVERSITY

Sahyadri Science College, Shivamogga

CERTIFICATE

This is to certify that the Project Report entitled "FACILE GREEN SYNTHESIS OF Zn-DOPED MoO<sub>3</sub> NANOPARTICLES AND ITS PHOTOCATALYTIC AND PHOTOLUMINESCENCE STUDIES" is carried out by Ms. Bhuvaneshwari H S, Ms. Sushma P M, Ms. Sushmitha D S students of IV Semester, MSc. Industrial Chemistry, under the guidance of Dr. Anitha Associate Professor Dept. of Industrial Chemistry, Sahyadri Science College, Shivamogga for the partial fulfillment of requirements for the award of the Master of Science in Industrial Chemistry in Sahyadri Science College, Shivamogga during the year 2022-23.

HEAD OF THE DEPARTMENT:

Prof. Latha K P

Department of Chemistry  
Sahyadri Science College,  
Shivamogga.

~~Co-ordinator~~  
~~Dep. of Industrial Chemistry~~  
~~Post Graduate Unit~~  
~~Sahyadri Science College~~  
~~Shivamogga.~~  
P.G. Department of Industrial Chemistry  
Sahyadri Science College,  
Shivamogga.

Examiners:

External examiner:

Internal examiner:

VALUED

1..... PKJ 20/11/2023

2.....

Signature of Examiners  
with date :

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





KUVEMPU



UNIVERSITY

Sahyadri Science College Shivamogga

Department of Industrial Chemistry

**CERTIFICATE**

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For the partial fulfillment of requirements essential for the completion of the degree, Master of Science in Industrial Chemistry in Sahyadri Science College, Shivamogga during the year 2023.

  
Chairman

**Latha K P**

Professor

Dept. Of Chemistry

  
Guide

**Dr. Vittala Rao K S**

Associate Professor

Dept. of Chemistry

  
**Co-ordinator**  
Dept. of Industrial Chemistry  
Post Graduate Unit  
Sahyadri Science College  
Shivamogga.

Co-ordinator

**Dr. Yuvaraj T. C. M.**

Associate Professor

Dept. of Chemistry

  
**PRINCIPAL**

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

**External Examiner**

**VALUED**

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

Signature of Examiners  
with date :

**Internal Examiner**



# KUVEMPU UNIVERSITY

**Sahyadri Science College,**


**Shivamogga-577203**

## CERTIFICATE

This is to certify that the project work report entitled "**FACILE SYNTHESIS AND CHARACTERIZATION OF MAGNETIC Co, Ni AND Cu FERRITE NANOPARTICLES**" is carried out by **Monisha M, Archana K G, Mandara L K, Deepika N**, submitted for the partial fulfillment of academic curriculum of M.Sc. IV semester, Industrial Chemistry, under the guidance of **Dr. Jithendra Kumar K. S**, Department of Chemistry, Sahyadri Science College - 577203.

  
**PRINCIPAL**

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

  
**Research Guide**

**Dr. Jithendra Kumar K. S**

**Co-ordinator**

**Dept. of Industrial Chemistry**  
**Post Graduate Unit**  
**Sahyadri Science College**  
**Shivamogga.**

Signature of PG Co-Ordinator

**Examiners**

1. ....

2. ....

**VALUED**

1. ....

2. ....

Signature of Examiners  
with date :




# KUVEMPU UNIVERSITY

Sahyadri Science College,

Shivamogga-577203

## CERTIFICATE


This is to certify that the project work report entitled "**GREEN SYNTHESIS OF SURFACE MODIFIED Co, Ni and Cu FERRITE NANOPARTICLES BY USING ARECANUT HUSK FIBRE EXTRACT**" is carried out by **Kavya K P, Keerthana S K, Gangadhara M K, Bhavana K H**, submitted for the partial fulfillment of academic curriculum of M.Sc. IV semester, Industrial Chemistry, under the guidance of **Dr. Jithendra Kumar K. S**, Department of Chemistry, Sahyadri Science College -577203.

  
18/11/23

Research Guide


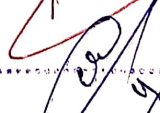
Dr. Jithendra Kumar K. S

  
Co-ordinator  
Dept. of Industrial Chemistry  
Post Graduate Unit  
Sahyadri Science College  
Shivamogga.  
Co-ordinator

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

1. ....

2. ....

VALUED	
1. ....	
2. ....	
Signatures of Examiners with date :	

KUVEMPU



UNIVERSITY

Department of P.G studies and Research in Industrial Chemistry

Sahyadri Science College Shivamogga -577203

## Certificate

This is to certify that the project work entitled ***SYNTHESIS, SPECTRAL STUDY OF 4-[(E)-(2-NITROPHENYL)DIAZENYL]-1,3-THIAZOL-AMINE(NTA/C<sub>9</sub>H<sub>7</sub>N<sub>5</sub>O<sub>2</sub>S) AND ITS COORDINATED METAL [CO(NTA)<sub>2</sub>.(H<sub>2</sub>O)<sub>2</sub>] AND [NI(NTA)<sub>2</sub>.(H<sub>2</sub>O)<sub>2</sub>] COMPLEXES; ANTIOXIDANT ACTIVITY STUDY*** is carried out by **Ragini T, Dayal Manjunath, Chandana H and Akshatha K.B.** The students of final year M.Sc., Industrial Chemistry, for the partial fulfilment of the requirements, essential for the completion of the degree, Master of science in Industrial Chemistry in Sahyadri Science College during the year 2023.

Guide: *Parash*

**Dr. Parameshwar Naik P**

Department of Chemistry

Sahyadri Science College  
**Dr. Parameshwara Naik P.**

M.Sc., Ph D

Associate Professor  
Department of Chemistry

Sahyadri Science College, Kuvempu University

Shivamogga-577203, Karnataka. INDIA.

External Examiners

*Raj*  
**PRINCIPAL**

SAHYADRI SCIENCE COLLEGE

(Constituent College of Kuvempu University)

SHIVMOGGA, Karnataka State.

Co-ordinator:

**Dr. Yuvaraj T.C.M**

Department of Chemistry

Sahyadri Science College  
**Co-ordinator**

Dept. of Industrial Chemistry  
Post Graduate Unit  
Sahyadri Science College  
Shivamogga.

Internal Examiners

**VALUED**  
1.....  
*[Signature]*  
Signature of Examiners  
with date :





**KUVEMPU**  **UNIVERSITY**

**Sahyadri Science College**

**Shivamogga-577203**

**CERTIFICATE**

This is to certify that the project work report entitled "**SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL EVALUATION OF INDOLYL-PYRAZOLE DERIVATIVES**" is carried out by **HAJIRA SUMAIYA** submitted for the partial fulfillment of academic curriculum of **M.Sc. IV semester Chemistry**, under the guidance of **Dr. Prabhakar W. Chavan**, Assistant Professor, Department of Chemistry, Sahyadri Science College -577203.

I further declare that this Dissertation or any part of it as not be submitted elsewhere for any other department or diploma to any other University or Institute.

Signature

Research Guide

**Dr. Prabhakar Chavan**

M.Sc., M.Phil., Ph.D.,

Assistant Professor

Dept. of PG Studies & Research in Chemistry  
Sahyadri Science College, Kuvempu University  
Shivamogga-577 203, Karnataka. INDIA.

Co-ordinator

**Dr. Shreekanta S.A.**

M.Sc., M.Phil., Ph.D.

Co-ordinator

Department of P.G. Studies  
and Research in Chemistry  
Sahyadri Science College  
Shimoga

**Examiners**

1. \_\_\_\_\_
2. \_\_\_\_\_



**PRINCIPAL**

**SAHYADRI SCIENCE COLLEGE**

(Constituent College of Kuvempu University)

**SHIMOGA, Karnataka State.**



**KUVEMPU**  **UNIVERSITY**

**Sahyadri Science College**

**Shivamogga-577203**

**CERTIFICATE**

This is to certify that the project work report entitled **“SYNTHESIS AND BIOLOGICAL ACTIVITIES OF INDOLYL-PYRIMIDINE-2-OL DERIVATIVES”** is carried out by **SYEDA MUSHARRIFA ANJUM** submitted for the partial fulfillment of academic curriculum of **M.Sc. IV semester Chemistry**, under the guidance of **Dr. Prabhakar W. Chavan**, Assistant Professor, Department of Chemistry, Sahyadri Science College -577203.

I further declare that this Dissertation or any part of it as not be submitted elsewhere for any other department or diploma to any other University or Institute.

Signature

Research Guide

**Dr. Prabhakar Chavan**

M.Sc., M.Phil., Ph.D.

Assistant Professor

Dept. of PG Studies & Research in Chemistry

Sahyadri Science College, Kuvempu University

Shivamogga-577203, INDIA.

**Examiners**

1. \_\_\_\_\_

2. \_\_\_\_\_

Co-ordinator

**Dr. Shreekantha S.A.**

M.Sc., M.Phil., Ph.D.

Co-ordinator

Department of P.G. Studies

and Research in Chemistry

Sahyadri Science College

Shimoga

**PRINCIPAL**

**SAHYADRI SCIENCE COLLEGE**

(Constituent College of Kuvempu University)

**SHIMOGA, Karnataka State.**





**KUVEMPU UNIVERSITY**



**Sahyadri Science College,**

**Shivamogga-577203**

**CERTIFICATE**

This is to certify that the project work report entitled "**FACILE SYNTHESIS AND CHARACTERIZATION OF MAGNETIC Co, Ni AND Cu FERRITE NANOPARTICLES**" is carried out by **Monisha M, Archana K G, Mandara L K, Deepika N**, submitted for the partial fulfillment of academic curriculum of M.Sc. IV semester, Industrial Chemistry, under the guidance of **Dr. Jithendra Kumar K. S**, Department of Chemistry, Sahyadri Science College - 577203.

**PRINCIPAL**

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

Signature of HOD

**Research Guide**

**Dr. Jithendra Kumar K. S**

Signature of **PG Coordinator**

Dept. of Industrial Chemistry  
Post Graduate Unit  
Sahyadri Science College  
Shivamogga.

**Examiners**

1. ....

2. ....

**VALUED**

1. ....

2. ....

Signature of Examiners

with date :



# KUVEMPU UNIVERSITY

Sahyadri Science College

Shivamogga-577203

## CERTIFICATE

This is to certify that the project work report entitled “**SYNTHESIS OF INDOLYL-PYRIMIDINE-2-THIONE DERIVATIVES AND THEIR BIOLOGICAL ACTIVITIES**” is carried out by **AYESHA SIDDIQA** submitted for the partial fulfillment of academic curriculum of **M.Sc. IV semester Chemistry**, under the guidance of **Dr. Prabhakar W. Chavan**, Assistant Professor, Department of Chemistry, Sahyadri Science College -577203.

I further declare that this Dissertation or any part of it as not be submitted elsewhere for any other department or diploma to any other University or Institute.

Signature

Research Guide

**Dr. Prabhakar Chavan**

M.Sc., M.Phil., Ph.D.

Assistant Professor

Dept. of PG Studies & Research in Chemistry  
Sahyadri Science College, Kuvempu University  
Shivamogga-577 203, Karnataka, INDIA.


 20/11/23  
Co-ordinator

**Dr. Shreekanta S.A.**  
M.Sc., M.Phil., Ph.D.  
Co-ordinator  
Department of P.G. Studies  
and Research in Chemistry  
Sahyadri Science College  
Shimoga

### Examiners

1.  21/11/23

2.  21/11/23

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



Sahyadri Science College

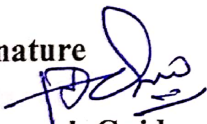
Shivamogga-577203

CERTIFICATE

This is to certify that the project work report entitled "**Synthesis, Characterization and Biological Evaluation of Tri-substituted Thiazole and Imidazole derivatives**" is carried out by PALLAVI P submitted for the partial fulfillment of academic curriculum of M.Sc. IV semester Chemistry, under the guidance of Dr. Prabhakar W. Chavan, Assistant Professor, Department of Chemistry, Sahyadri Science College -577203.

I further declare that this Dissertation or any part of it as not be submitted elsewhere for any other department or diploma to any other University or Institute.

Signature

  
Research Guide


  
Co-Ordinator

Dr. Shreekanta S.A.  
M.Sc., M.Phil., Ph.D.  
Co-ordinator  
Department of P.G. Studies  
and Research in Chemistry  
Sahyadri Science College  
Shimoga

Examiners

1. 

2. 

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

**KUVEMPU**  **UNIVERSITY**

**Sahyadri Science College**

**Shivamogga-577203**

**CERTIFICATE**

This is to certify that the project work report entitled “Synthesis , Characterization and biological investigation of Dihydropyrimidine-2(1H)-thiones” is carried out by **Vaishnavi N.E** submitted for the partial fulfillment of academic curriculum of **IV semester, M.Sc. Chemistry**, under the guidance of **Dr. Prabhakar W. Chavan**, Assistant Professor, Department of Chemistry, Sahyadri Science College -577203.

**Signature**

**Research Guide**

  
**Dr. Prabhakar W. Chavan,**

  
**Co-ordinator**

**Dr. Shreekantha S.A.**

M.Sc., M.Phil., Ph.D.

**Co-ordinator**

**Department of P.G. Studies  
and Research in Chemistry  
Sahyadri Science College  
Shimoga**

  
**PRINCIPAL**

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

**Examiners**

1. \_\_\_\_\_

2. \_\_\_\_\_



Certificate

This is to certify that the project work entitle "**Surface Morphology Studies Of Vanadium Pentoxide Doped Polyaniline**" is carried out by **Ms. Lakshmi Karnataka T S (P06CS21S0118)** under the guidance of **Dr. SUBRAMANYA K**, Assistant Professor, Department of Post Graduate Studies in Physics, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022 – 2023.



PG Co-ordinator

**Dr. Nagaraja N**

Associate Professor and PG Co-ordinator  
**Dr. NAGARAJA N**  
Co-Ordinator M.Sc., Physics  
Department of PG Studies in Physics  
Dept. of PG Studies in Physics  
Sahyadri Science College, Shivamogga.



Guide

**Dr. Subramanya K**

Assistant Professor and Research Guide  
**Dr. SUBRAMANYA K** M.Sc., Ph.D.  
Assistant Professor & Research Guide  
Department of PG Studies in Physics  
Department of Physics  
Sahyadri Science College  
Sahyadri Science College, Shivamogga  
Kuvempu University, Shivamogga.



PRINCIPAL

SAHYADRI SCIENCE COLLEGE

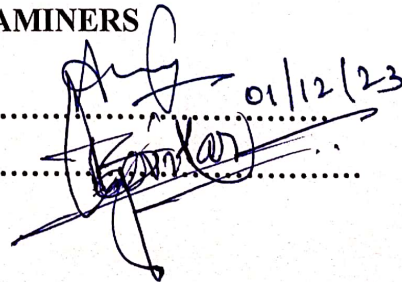
(Constituent College of Kuvempu University)

Date : SHIMOOGA, Karnataka State.

Place : Shivamogga.

EXAMINERS

1. .... 01/12/23  
2. ....



KUVEMPU UNIVERSITY



Department of PG Studies in Physics

Sahyadri Science College, Shivamogga

Certificate

This is to certify that the project work entitle “**Surface Morphology Studies Of Vanadium Pentoxide Doped Polyaniline**” is carried out by **Ms. Lakshmi Karnataka T S (P06CS21S0118)** under the guidance of **Dr. SUBRAMANYA K**, Assistant Professor, Department of Post Graduate Studies in Physics, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022 – 2023.

PG Co-ordinator

**Dr. Nagaraja N**

Associate Professor and PG coordinator  
**Dr. NAGARAJA N**  
Co-Ordinator, M.Sc., Physics  
Department of PG Studies in Physics  
Dept. of PG Studies in Physics  
Sahyadri Science College, Shivamogga.

Guide

**Dr. Subramanya K**

Assistant Professor and Research Guide  
**Dr. SUBRAMANYA K, M.Sc., Ph.D.**  
Assistant Professor & Research Guide  
Department of PG Studies in Physics  
Department of Physics  
Sahyadri Science College  
Sahyadri Science College, Shivamogga  
Kuvempu University, Shivamogga.

PRINCIPAL

SAHYADRI SCIENCE COLLEGE

(Constituent College of Kuvempu University)

Date : SHIMOGGA, Karnataka State.

Place : Shivamogga.

EXAMINERS

1. .... 01/12/23  
2. ....







**KUVEMPU UNIVERSITY**

*Department of PG Studies in Physics*

**Sahyadri Science College, Shivamogga**

**CERTIFICATE**

This is to certify that the project work entitled "*Synthesis and Electrical conductivity measurements of Polymer nano-composites*" is carried out by Ms. Juveriya Khanum (P06CS21S0133) under the guidance of Dr. Chandrashekara M N Associate Professor, Department of Physics, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022 – 2023.

**PG Co-ordinator**

**Dr. Nagaraja N**

*Associate Professor*

*Department of PG Studies in Physics  
Sahyadri science college, Shivamogga.*

**Project Guide**

**Dr. Chandrashekara M N**

*Associate Professor*

*Department of Physics  
Sahyadri science college, Shivamogga.*

**Dr. Nagaraja N.**  
Co-ordinator M.Sc. Physics  
Dept. of PG Studies in Physics  
Sahyadri Science College, Shivamogga

**EXAMINERS:**

1. \_\_\_\_\_ 09/12/23  
2. \_\_\_\_\_ 21/12/23

Date :

Place : Shivamogga.

**PRINCIPAL**

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



Department of PG Studies in Physics

Sahyadri Science College, Shivamogga

**CERTIFICATE**

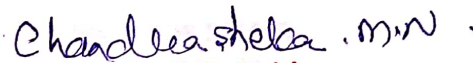
This is to certify that the project work entitled "*Synthesis and X-ray diffraction studies of Polymer nano-composites*" is carried out by Ms. NOOR SALMA (P06CS21S0119) under the guidance of Dr. Chandrashekara M N Associate Professor, Department of Physics, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in Master of Science in Physics as per the Kuvempu University regulations during the year 2022 – 2023.



PG Co-ordinator

**Dr. NAGARAJA N.**

Dr. Nagaraja N.  
Co-Ordinator M.Sc., Physics  
Department of PG Studies in Physics  
Sahyadri Science College, Shivamogga.



Project Guide

**Dr. Chandrashekara M N**

Associate Professor  
Department of Physics  
Sahyadri science college, Shivamogga.



PRINCIPAL

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

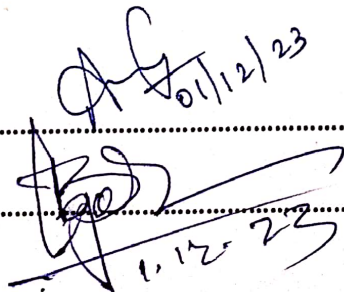
Date :

Place : Shivamogga.

**EXAMINERS:**

1. ....

2. ....





KUVEMPU  UNIVERSITY

Department of PG Studies in Physics  
Sahyadri Science College, Shivamogga

Certificate

This is to certify that the project work entitled "*Green Synthesis and Applications of Metal Oxide Nanoparticles*" is carried out by **Ms. Pooja G C. (P06CS21S0121)** under the guidance of **Dr. Nagaraja N.** Associate Professor & P.G Co-ordinator Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022 – 2023.

**PG Co-ordinator and Guide**



**Dr. NAGARAJA N**

Associate Professor and P.G Co-ordinator

Department of PG Studies in Physics

Sahyadri science college, Shivamogga.

Dept. of PG Studies in Physics  
Sahyadri Science College, Shimoga.

  
**PRINCIPAL**

SAHYADRI SCIENCE COLLEGE

Date: (Constituent College of Kuvempu University)

SHIMOGA, Karnataka State.

Place : Shivamogga

**Co - Guide**

  
**Mr. SHARAV NAGOUDA**

Research scholar

Department of physics

Sahyadri science college, Shivamogga.

**Examiners :**

1.  01/12/23

2. 

  
**KUVEMPU UNIVERSITY**

**Department of PG Studies in Physics**  
**Sahyadri Science College, Shivamogga**

**Certificate**

This is to certify that the project work entitled "*Synthesis and Characterization Studies of PANI/Areca Fibre Composite for Various Applications*" is carried out by **Ms.Nayana H N. (P06CS21S0135)** under the guidance of **Dr.Nagaraja N.** Associate Professor & P.G Co-ordinator Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022 – 2023.

**PG Co-ordinator and Guide**



**Dr. NAGARAJA N**

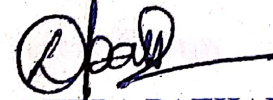
Associate Professor and P.G Co-ordinator  
Department of PG Studies in Physics  
Sahyadri science college, Shivamogga.

**Dr. NAGARAJA N.**  
**Co-Ordinator M.Sc., Physics**  
**Dept. of PG Studies in Physics**  
**Sahyadri Science College, Shimoga.**

Date: 2/12/2023

Place : Shivamogga

**Co - Guide**



**Ms. DEEPA PATHAR**


Research scholar  
Department of physics  
Sahyadri science college, Shivamogga.

  
**PRINCIPAL**

**SAHYADRI SCIENCE COLLEGE**

**Examiners :** (Constituent College of Kuvempu University)  
SHIMOGA, Karnataka State.

1.  02/12/23

2. 



**CERTIFICATE**

This is to certify that the project work entitled "*Synthesis and Thermal Studies on Metal Oxide Doped Polymer Nanocomposites*" is carried out by Ms. VANDANA B (P06CS21S0123) under the guidance of Dr. Chandrashekar M N Associate Professor, Department of Physics, Sahyadri Science College , Kuvempu University, Shivamogga for the partial fulfillment of the award of Degree in Master of Science in Physics as per the Kuvempu University regulations during the year 2022–2023.

  
PG Co-ordinator

Dr. Nagaraja N

Associate Professor  
**Dr. NAGARAJA N.**  
Co-Ordinator M.Sc. Physics  
Department of PG Studies in Physics  
Dept. of PG Studies in Physics  
Sahyadri science college, Shivamogga.

  
Project Guide

Dr. Chandrashekar M N

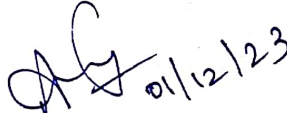

Associate Professor  
Department of Physics  
Sahyadri science college, Shivamogga.

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

Date:

Place: Shivamogga.

**EXAMINERS:**

1. ....  01/12/23  
2. .... 

Sahyadri Science College,


Shivamogga-577203


Certificate

This is to certify that the project work entitled “**STRUCTURAL AND OPTICAL PROPERTIES OF FERROUS SULPHATE DOPED POLYANILINE**” is carried out by **Vidya S** submitted for the partial fulfillment of academic curriculum of M.Sc. IV semester Physics, under the guidance of **Dr Subramanya Kilarkaje**, Assistant Professor, Department of Physics, Sahyadri Science College -577203.

I further declare that this Project or any part of it as not be submitted elsewhere for any other department or diploma to any other University or Institute.

Signature

  
Research Guide **Dr. SUBRAMANYA. K.** M.Sc., Ph.D.,  
Assistant Professor & Research Guide  
Department of Physics  
Sahyadri Science College  
Kuvempu University, Shivamogga.

  
Co-ordinator

**Dr. NAGARAJA N.**  
Co-Ordinator M.Sc., Physics  
Dept. of PG Studies in Physics  
Sahyadri Science College, Shivamogga.

Examiners

1.  01/12/23

2. 

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



KUVEMPU UNIVERSITY



Department of PG Studies in Physics  
Sahyadri Science College, Shivamogga

Certificate

This is to certify that the project work entitle **“Structural, UV-Vis. And Thermal Properties of FeSO<sub>4</sub> Doped PANI”** is carried out by **Ms. Vaishnavi S Patil (P06CS21S0129)** under the guidance of **Dr. SUBRAMANYA K**, Assistant Professor, Department of Post Graduate Studies in Physics, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022 – 2023.

PG Co-ordinator

**Dr. Nagaraja N.**  
**Dr. NAGARAJA N.**

Associate Professor, M.Sc. Physics  
Co-ordinator  
Dept. of PG Studies in Physics  
Department of PG Studies in Physics  
Sahyadri Science College, Shivamogga.  
Sahyadri Science College, Shivamogga.

Guide

**Dr. Subramanya K**

**Dr. SUBRAMANYA. K.** M.Sc., Ph.D.,  
Assistant Professor and Research Guide  
Assistant Professor & Research Guide  
Department of Post Graduate Studies in Physics  
Sahyadri Science College  
Sahyadri Science College, Shivamogga  
Kuvempu University, Shivamogga.

PRINCIPAL

SAHYADRI SCIENCE COLLEGE  
(Constituent College of Kuvempu University)  
Date : SHIMOGA, Karnataka State.  
Place : Shivamogga.

EXAMINERS

1. 01/12/23  
2.



Department of PG Studies in Physics

Sahyadri Science College, Shivamogga

**CERTIFICATE**

This is to certify that the project work entitled "**Synthesis and FTIR characterization of Polymer nano-composites**" is carried out by Ms. ZAIBA FATHIMA (P06CS21S0137) under the guidance of Dr. Chandrashekara M N Associate Professor, Department of Physics, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022 – 2023.



**PG Co-ordinator**

**Dr. Nagaraja N**

Associate Professor

Department of PG Studies in Physics  
Sahyadri science college, Shivamogga.

Chandrashekara M N  
**Project Guide**

**Dr. Chandrashekara M N**

Associate Professor

Department of Physics  
Sahyadri science college, Shivamogga.

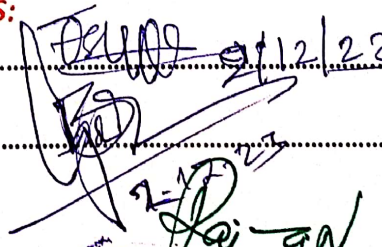
**Dr. NAGARAJA N.**

Co-Ordinator M.Sc., Physics

Dept. of PG Studies in Physics  
Sahyadri Science College, Shivamogga.

**EXAMINERS:**

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



Date :

Place : Shivamogga.

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



**KUVEMPU UNIVERSITY**



**Department of PG Studies in Physics**  
**Sahyadri Science College, Shivamogga**

**Certificate**

This is to certify that the project work entitled "*Mechanical Properties Of Coir Fibers Reinforced Composites*" is carried out by **Ms.Hamsini N. (P06CS21S0130)** under the guidance of **Dr.Nagaraja N.** Associate Professor & P.G Co-ordinator Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022 – 2023.

**PG Co-ordinator and Guide**

**Dr. NAGARAJA N**

Associate Professor and P.G Co-ordinator  
Department of PG Studies in Physics  
Sahyadri science college, Shivamogga.

**Dr. NAGARAJA N.**

**Co-Ordinator M.Sc., Physics**  
**Dept. of PG Studies in Physics**  
**Sahyadri Science College, Shimoga.**

**Co – Guide**

**Mrs. KAVYA N**

Research scholar  
Department of physics  
Sahyadri science college, Shivamogga.

**Date:**

**Place : Shivamogga**

**PRINCIPAL**

**SAHYADRI SCIENCE COLLEGE**

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

**Examiners :**

1. 02/12/23
- 2.



  
**KUVEMPU UNIVERSITY**

**Department of PG Studies in Physics**  
**Sahyadri Science College, Shivamogga**

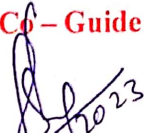
**Certificate**

This is to certify that the project work entitled "*Green Synthesis and Characterization of Metal Oxide Nanoparticles*" is carried out by **Ms. Bhoomika L N. (P06CS21S0120)** under the guidance of **Dr. Nagaraja N.** Associate Professor & P.G Co-ordinator Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022 – 2023.

  
**PG Co-ordinator and Guide**

**DR. NAGARAJA N.**  
**Co-Ordinator M.Sc., Physics**  
Associate Professor and P.G Co-ordinator  
Department of PG Studies in Physics  
**Sahyadri Science College, Shivamogga.**

**Co - Guide**

  
**Mr. Sharanagouda**  
Research scholar  
Department of physics  
Sahyadri science college, Shivamogga.

  
**PRINCIPAL**  
SAHYADRI SCIENCE COLLEGE

Date: (Constituent College of Kuvempu University)  
SHIMOGA, Karnataka State.

Place : Shivamogga

**Examiners :**

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



# KUVEMPU UNIVERSITY



Department of PG Studies in Physics  
Sahyadri Science College, Shivamogga

## Certificate

This is to certify that the project work entitle "**Synthesis And Characterization Of Inorganic Ferrous Sulphate Doped PANI**" is carried out by **Ms. BHAVYA B (P06CS21S0139)** under the guidance of **Dr. SUBRAMANYA K**, Assistant Professor, Department of Post Graduate Studies in Physics, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022 – 2023.

**PG Co-ordinator**

**Dr. Nagaraja N**

Associate Professor and PG coordinator  
Department of PG Studies in Physics  
Sahyadri Science College, Shivamogga.  
**Dr. NAGARAJA N.**  
**Co-Ordinator M.Sc., Physics**  
**Dept. of PG Studies in Physics**  
**Sahyadri Science College, Shimoga.**

**Guide**

**Dr. Subramanya K**  
**Dr. SUBRAMANYA. K. M.Sc., Ph.D.,**  
Assistant Professor and Research Guide  
Department of Physics  
Department of PG Studies in Physics  
Sahyadri Science College  
Sahyadri Science College, Shivamogga  
Kuvempu University, Shivamogga

### EXAMINERS

Date : 02/12/2023

Place : Shivamogga.

**PRINCIPAL**

**SAHYADRI SCIENCE COLLEGE**

(Constituent College of Kuvempu University)

SHIVAMOGGA, Karnataka State.

1. 02/12/23

2.



  
**KUVEMPU UNIVERSITY**

**Department of PG Studies in Physics**  
**Sahyadri Science College, Shivamogga**

**Certificate**

This is to certify that the project work entitled **“A Study on Mechanical Properties of Arca Fiber Reinforced Composite”** is carried out by **Ms. SOUNDARYA N. (P06CS21S0124)** under the guidance of **Dr. NAGARAJA N.** Associate Professor & P.G Co-ordinator Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022 – 2023.

**PG Co-ordinator and Guide**



**Dr. NAGARAJA N**

Associate Professor and P.G Co-ordinator

**Dr. NAGARAJA N.**  
Department of PG Studies in Physics

**Co-Ordinator M.Sc. Physics**  
Sahyadri science college, Shivamogga.

**Dept. of PG Studies in Physics**

**Sahyadri Science College, Shimoga.**

**Co – Guide**



**Mrs. KAVYA N**

Research scholar

Department of physics

Sahyadri science college, Shivamogga.

  
**PRINCIPAL**

**SAHYADRI SCIENCE COLLEGE**

Date: (Constituent College of Kuvempu Universit:)

SHIMOGA, Karnataka State.

Place : Shivamogga

**Examiners :**

1.  01/12/23

2. 



KUVEMPU UNIVERSITY



Department of PG Studies in Physics  
Sahyadri Science College, Shivamogga

Certificate

This is to certify that the project work entitle “**Structural And Morphological Studies Of Vanadium Pentoxide Doped Polyaniline**” is carried out by **Ms. THRUPTHI G (P06CS21S0122)** under the guidance of **Dr. SUBRAMANYA K**, Assistant Professor, Department of Post Graduate Studies in Physics, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022 – 2023.

PG Co-ordinator

**Dr. Nagaraja N**

Associate Professor and PG Co-ordinator  
**Dr. NAGARAJA N.**  
Co-Ordinator M.Sc. Physics  
Department of PG Studies in Physics  
Dept. of PG Studies in Physics  
Sahyadri Science College, Shivamogga.

Guide

**Dr. Subramanya K**  
**Dr. SUBRAMANYA. K.** M.Sc., Ph.D.  
Assistant Professor and Research Guide  
Assistant Professor & Research Guide  
Department of PG Studies in Physics  
Sahyadri Science College, Shivamogga  
Kuvempu University, Shivamogga.

PRINCIPAL

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

Date :  
Place : Shivamogga.

EXAMINERS

1. ....  
2. ....  
01/12/23

**CERTIFICATE**

This is to certify that the project work entitled "*Synthesis and XRD Studies on Metal Oxide Doped Polymer Nanocomposites*" is carried out by Ms. NAHIDA BANU (P06CS21S0136) under the guidance of Dr. Chandrashekara M N Associate Professor, Department of Physics, Sahyadri Science College , Kuvempu University, Shivamogga for the partial fulfillment of the award of Degree in Master of Science in Physics as per the Kuvempu University regulations during the year 2022–2023.

  
PG Co-ordinator

**Dr. Nagaraja N**

Associate Professor

Department of PG Studies in Physics

Sahyadri science college, Shivamogga.

  
Project Guide

**Dr. Chandrashekara M N**

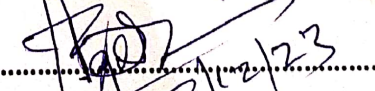
Associate Professor

Department of Physics

Sahyadri science college, Shivamogga.

**Dr. NAGARAJA N.**  
Co-Ordinator M.Sc., Physics EXAMINERS:  
Dept. of PG Studies in Physics  
Sahyadri Science College, Shimoga.

1.  2/12/23

2.  2/12/23

Date:

Place: Shivamogga

  
PRINCIPAL

SAHYADRI SCIENCE COLLEGE

(Constituent College of Kuvempu University)

SHIVMOGGA, Karnataka State.



Department of PG Studies in Physics

Sahyadri Science College, Shivamogga

**CERTIFICATE**

This is to certify that the project work entitled "*Synthesis and Thermal studies of Polymer nano-composites*" is carried out by Ms. UMMUL VARA MAHENOOR (P06CS21S0132) under the guidance of Dr. Chandrashekara M N Associate Professor, Department of Physics, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in Master of Science in Physics as per the Kuvempu University regulations during the year 2022 – 2023.

  
PG Co-ordinator

**Dr. Nagaraja N**

Associate Professor

Department of PG Studies in Physics  
Sahyadri science college, Shivamogga.

  
Project Guide

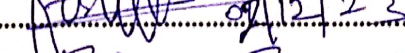
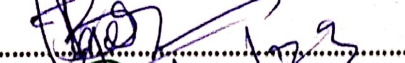
**Dr. Chandrashekara M N**

Associate Professor

Department of Physics  
Sahyadri science college, Shivamogga.

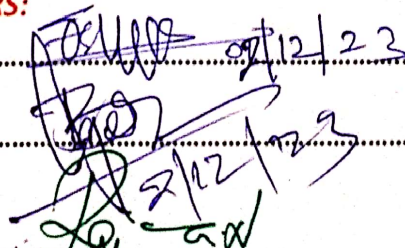
**Dr. NAGARAJA N.**  
Co-Ordinator M.Sc., Physics  
Dept. of PG Studies in Physics  
Sahyadri Science College, Shivamogga.

EXAMINERS:

1. ....  07/12/23
2. ....  07/12/23

Date :

Place : Shivamogga.

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

  
**KUVEMPU UNIVERSITY**

**Department of PG Studies in Physics**  
**Sahyadri Science College, Shivamogga**

**Certificate**

This is to certify that the project work entitled **“Fabrication and Characterization of Coir Fiber Reinforced Composites”** is carried out by **Ms. Reethu S S Reg. No: P06CS21S0134** under the guidance of **Dr. Nagaraja N.** Associate Professor & P.G Co-ordinator Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022 – 2023.

**PG Co-ordinator and Guide**



**Dr. NAGARAJA N**

Associate Professor and P.G Co-ordinator  
Department of PG Studies in Physics  
Sahyadri science college, Shivamogga.

**Co – Guide**



**Mrs. KAVYA N**

Research Scholar  
Department of physics  
Sahyadri science college, Shivamogga.

**Dr. NAGARAJA N.**

**Co-Ordinator M.Sc., Physics**  
**Dept. of PG Studies in Physics**  
**Sahyadri Science College, Shimoga.**

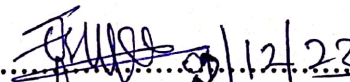
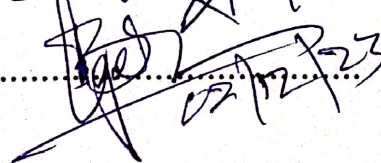
Date:

Place : Shivamogga

  
**PRINCIPAL**

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

**Examiners :**

1. ....  21/12/23  
2. ....  22/12/23



Sahyadri Science College,  
Shivamogga-577203

Certificate

This is to certify that the project work entitled "**STUDIES ON CHEMICAL PROPERTIES OF FERROUS SULPHATE DOPED POLYANILINE**" is carried out by **Shruthi H B** submitted for the partial fulfillment of academic curriculum of M.Sc. IV semester Physics, under the guidance of **Dr Subramanya Kilarkaje**, Assistant Professor, Department of Physics, Sahyadri Science College -577203.


I further declare that this Project or any part of it as not be submitted elsewhere for any other department or diploma to any other University or Institute.

Signature

Research Guide

  
**Dr. SUBRAMANYA. K. M.Sc., Ph.D.,**  
Assistant Professor & Research Guide  
Department of Physics  
Sahyadri Science College  
Kuvempu University, Shivamogga.


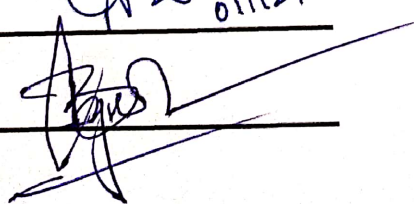
Co-ordinator


  
**Dr. NAGARAJA M.**  
Co-Ordinator M.Sc., Physics  
Dept. of PG Studies in Physics  
Sahyadri Science College, Shivamogga.

Examiners

1.

2.

  
01/12/23  


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

KUVEMPU  UNIVERSITY

Department of PG Studies in Physics

Sahyadri Science College, Shivamogga

**CERTIFICATE**

This is to certify that the project work entitled "*Synthesis and FTIR Studies on Metal Oxide Doped Polymer Nanocomposites*" is carried out by Ms. RUMANA TAJ (P06CS21S0131) under the guidance of Dr. Chandrashekara M N Associate Professor, Department of Physics, Sahyadri Science College , Kuvempu University, Shivamogga for the partial fulfillment of the award of Degree in Master of Science in Physics as per the Kuvempu University regulations during the year 2022–2023.

  
PG Co-ordinator

Dr. Nagaraja N

Associate Professor

Department of PG Studies in Physics

Sahyadri science college, Shivamogga.

**Dr. NAGARAJA N.**  
Co-Ordinator M.Sc., Physics  
Dept. of PG Studies in Physics  
Sahyadri Science College, Shimoga.

  
Project Guide

Dr. Chandrashekara M N

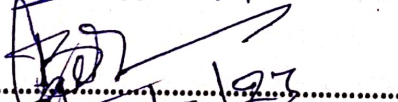
Associate Professor

Department of Physics

Sahyadri science college, Shivamogga.

**EXAMINERS:**

1.....  02/12/23

2.....  02/12/23

Date:

Place: Shivamogga.

  
PRINCIPAL

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





  
**KUVEMPU UNIVERSITY**


**Department of PG Studies in Physics**  
**Sahyadri Science College, Shivamogga**

**Certificate**

This is to certify that the project work entitled "**Fabrication and characterization of Areca fiber reinforced composites**" is carried out by **Ms. Prathiksha S P Reg. No: P06CS21S0125** under the guidance of **Dr. Nagaraja N. Associate Professor & P.G Co-ordinator Sahyadri Science College, Kuvempu University, Shivamogga** for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022 – 2023.

  
**PG Co-ordinator and Guide**

**Dr. NAGARAJA N.**  
**Co-Ordinator M.Sc. Physics**  
Associate Professor and P.G Co-ordinator  
Department of PG Studies in Physics  
**Sahyadri Science College, Shivamogga.**  
Sahyadri science college, Shivamogga.

**Co – Guide**  
  
**Mrs. KAVYA N**  
Research scholar  
Department of physics  
Sahyadri science college, Shivamogga.

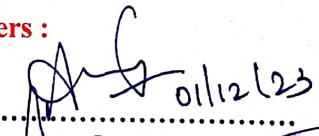

Date: 1/12/2023

Place : Shivamogga

  
**PRINCIPAL**

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

**Examiners :**

1. ....  01/12/23  
2. .... 

KUVEMPU



UNIVERSITY

Department of PG Studies in Physics  
Sahyadri Science College, Shivamogga

Certificate

This is to certify that the project work entitled “**STUDY ON PHYSICAL AND ELECTRICAL PROPERTIES OF NATURAL FIBRE WITH METAL OXIDE COMPOSITES**” is carried out by Ms. POOJA NADIG H M Reg.no: P06CS21S0127 under the guidance of Dr.Nagaraja N Associate Professor, Department of Post Graduate studies in Physics, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the award of Degree in **Master of Science in Physics** as per the Kuvempu University regulations during the year 2022– 2023.

**PG Co-ordinator**

**Dr.Nagaraja N**

Associate Professor and PG coordinator  
Department of PG Studies in Physics  
Sahyadri Science College, Shivamogga.  
**Co-Ordinator M.Sc., Physics**  
Dept. of PG Studies in Physics  
Sahyadri Science College, Shimoga.

**Co-Guide**

**Mrs. Deepa Pathar**

Research Scholar  
Department of Physics  
Sahyadri Science College, Shivamogga.

**EXAMINERS:**

**PRINCIPAL**  
SAHYADRI SCIENCE COLLEGE  
(Constituent College of Kuvempu University)  
SHIVMOGA, Karnataka

**Date:**

**Place:** Shivamogga.

- 
1. .... 01/12/23
- 
2. ....



Sahyadri Science College

Shivamogga-577203


CERTIFICATE

This is to certify that the project work report entitled “**Synthesis and Characterisation of Polyaniline(PANI) Doped with Vanadium Pentoxide( $V_2O_5$ )**” is carried out by MR. KRISHNAMURTHY S submitted for the partial fulfillment of academic curriculum of M.Sc. IV semester Physics, under the guidance of Dr. Subramanya Kilarkaje, Assistant Professor, Department of Physics, Sahyadri Science College -577203.


I further declare that this Project or any part of it as not be submitted else where for any other department or diploma to any other University or Institute.

Signature

Research Guide

  
**Dr. SUBRAMANYA. K. M.Sc., Ph.D.,**  
Assistant Professor & Research Guide  
Department of Physics  
Sahyadri Science College  
Kuvempu University, Shivamogga.

Co-ordinator

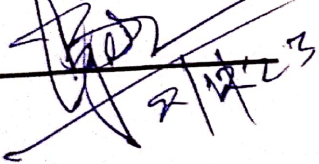
  
**Dr. NAGARAJA M.**  
Co-Ordinator M.Sc., Physics  
Dept. of PG Studies in Physics  
Sahyadri Science College, Shivamogga.

Examiners

1.



2.



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

Sahyadri Science College

Shivamogga-577203

CERTIFICATE

This is to certify that the project work report entitled "**Preparation and Structural Studies of Vanadium Pentoxide(V<sub>2</sub>O<sub>5</sub>) Doped with Polyaniline(PANI)**" is carried out by Mr. MANOJ A M submitted for the partial fulfillment of academic curriculum of M.Sc. IV semester Physics, under the guidance of Dr. Subramanya Kilarkaje, Assistant Professor, Department of Physics, Sahyadri Science College -577203.

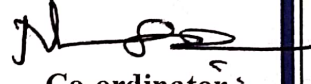
I further declare that this Project or any part of it as not be submitted else where for any other department or diploma to any other University or Institute.

Signature

Research Guide

  
**Dr. SUBRAMANYA. K. M.Sc., Ph.D.,**  
Assistant Professor & Research Guide  
Department of Physics  
Sahyadri Science College  
Kuvempu University, Shivamogga.

Co-ordinator

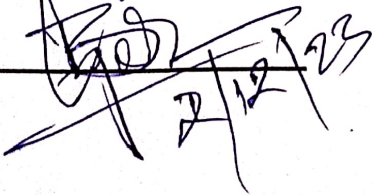
  
**Dr. NAGARAJA N.**  
Co-Ordinator M.Sc., Physics  
Dept. of PG Studies in Physics  
Sahyadri Science College, Shivamogga.

Examiners

1.

  
02/12/23

2.

  
2/12/23

  
**PRINCIPAL**

SAHYADRI SCIENCE COLLEGE

(Constituent College of Kuvempu University)

SHIMOGA, Karnataka State.





**Department of Biotechnology**

**Dr. Prabhakar B T**  
Associate Professor  
and PG Coordinator

Department of PG Studies and  
Research in Biotechnology, Sahyadri  
Science College, Shivamogga,  
Karnataka, India.

**CERTIFICATE**

This is to certify that the project report entitled "**Screening and identification of Tomato breeding lines for disease resistances using molecular markers**" submitted to the Kuvempu University for the award of Master of Science in Biotechnology by Ms. Shruthi M, is the result of bonafide project work carried out by him under the guidance of Mr. Abdul Shafiulla. Lecturer, Department of Post Graduate Studies and Research in Biotechnology, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the requirements for the completion of the Degree, Master of Science, Kuvempu University during the year 2022-2023.

I further certify that this or part thereof has not been previously formed the basis of the award of any degree, associateship, fellowship *etc.* of any other University or Institution.


Date :

Place: Shivamogga




**PG Coordinator**

**(Dr. Prabhakar B T)**



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

**Dr. B.T. Prabhakar**  
Associate Professor  
Department of Biotechnology  
Sahyadri Science College  
Kuvempu University, Shivamogga.

  
**KUVEMPU UNIVERSITY**  
**Department of Biotechnology**

**Dr. Prabhakar B T**  
Associate Professor  
and PG Coordinator

Department of PG Studies and  
Research in Biotechnology,  
Sahyadri Science College,  
Shivamogga, Karnataka, India.

## CERTIFICATE

This is to certify that the project report entitled "In Vitro Antioxidant and Enzymatic profile of *Jyothi Biliya* rice sample" submitted to the Kuvempu University for the award of Master of Science in Biotechnology by Ms. Sanjana M V, is the result of bonafide project work carried out by her under the guidance of Dr. Syed Murthuza, Lecturer, Department of Post Graduate Studies and Research in Biotechnology, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the requirements for the completion of the Degree, Master of Science, Kuvempu University during the year 2022-2023.

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**PRINCIPAL**

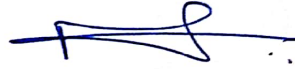
SAHYADRI SCIENCE COLLEGE

(Constituent College of Kuvempu University)

Date: 05-11-2023


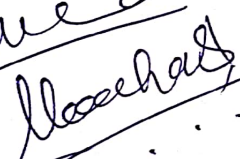

Place: Shivamogga

SHIMOGA, Karnataka State.



PG Coordinator

(Dr. Prabhakar B T)

  
  
5/11/23  
  
5/11/23

**Dr. B.T. Prabhakar**  
Associate Professor  
Department of Biotechnology  
Sahyadri Science College  
Kuvempu University, Shivamogga.



  
**KUVEMPU UNIVERSITY**

**Department of Biotechnology**

**Dr. Prabhakar B T**  
Associate Professor  
and PG Coordinator

Department of PG Studies and  
Research in Biotechnology,  
Sahyadri Science College,  
Shivamogga, Karnataka, India.

**CERTIFICATE**

This is to certify that the project report entitled "In Vitro Antioxidant and Enzymatic profile of *Sahyadri megha* rice sample" submitted to the Kuvempu University for the award of Master of Science in Biotechnology by **Ms. V Swathi**, is the result of bonafide project work carried out by her under the guidance of **Dr. Syed Murthuza**, Lecturer, Department of Post Graduate Studies and Research in Biotechnology, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the requirements for the completion of the Degree, Master of Science, Kuvempu University during the year 2022-2023.

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**PRINCIPAL**

**SAHYADRI SCIENCE COLLEGE**

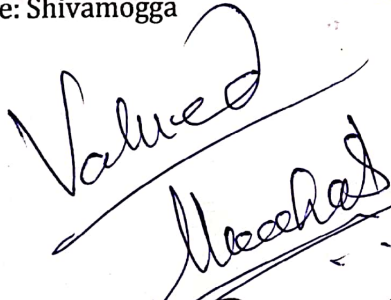
(Constituent College of Kuvempu University)  
SHIMOGGA, Karnataka State.

Date: 05-11-2023


Place: Shivamogga

  
PG Coordinator

(Dr. Prabhakar B T)

*Valued*  
  
5/11/23  
5/11/23

**Dr. B.T. Prabhakar**  
Associate Professor  
Department of Biotechnology  
Sahyadri Science College  
Kuvempu University, Shivamogga.

  
**KUVEMPU UNIVERSITY**  
**Department of Biotechnology**

**Dr. Prabhakar B T**  
Associate Professor  
and PG Coordinator

Department of PG Studies and  
Research in Biotechnology,  
Sahyadri Science College,  
Shivamogga, Karnataka, India.

## CERTIFICATE

This is to certify that the project report entitled "**Analysis of expression profile of tumorigenic genes in ascites carcinoma cells**" submitted to the Kuvempu University for the award of Master of Science in Biotechnology by Mr. Poornesh G M, is the result of bonafide project work carried out by him under the guidance of Dr. Prabhakar B T . Associate Professor, Department of Post Graduate Studies and Research in Biotechnology, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the requirements for the completion of the Degree, Master of Science, Kuvempu University during the year 2022-2023.


I further certify that this or part thereof has not been previously formed the basis of the award of any degree, associateship, fellowship etc. of any other University or Institution.

Date :05-11-2023

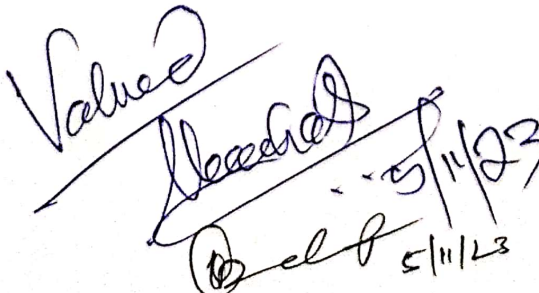
Place: Shivamogga

  
**PRINCIPAL**


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

  
**PG Coordinator**

**Dr. Prabhakar B T**  
**Dr. B.T. Prabhakar**  
Associate Professor  
Department of Biotechnology  
Sahyadri Science College  
Kuvempu University, Shivamogga.

  
Valuee  
Shivamogga  
5/11/23  
5/11/23



  
**KUVEMPU UNIVERSITY**  
**Department of Biotechnology**

**Dr. Prabhakar B T**  
Associate Professor  
and PG Coordinator

Department of PG Studies and  
Research in Biotechnology,  
Sahyadri Science College,  
Shivamogga, Karnataka, India.

## CERTIFICATE

This is to certify that the project report entitled "In Vitro Antioxidant and Enzymatic profile of *Jyothi x Tunga* rice sample" submitted to the Kuvempu University for the award of Master of Science in Biotechnology by **Ms. Chaitra M K**, is the result of bonafide project work carried out by her under the guidance of **Dr. Syed Murthuza**, Lecturer, Department of Post Graduate Studies and Research in Biotechnology, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the requirements for the completion of the Degree, Master of Science, Kuvempu University during the year 2022-2023.

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**PRINCIPAL**

**SAHYADRI SCIENCE COLLEGE**

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



Date: 05-11-2023

Place: Shivamogga



**PG Coordinator**

**(Dr. Prabhakar B T)**  
Associate Professor  
Department of Biotechnology  
Sahyadri Science College  
Kuvempu University, Shivamogga.

*Valueed*  
  
*5/11/23*  
  
*5/11/23*

  
**KUVEMPU UNIVERSITY**  
**Department of Blotechnology**

**Dr. Prabhakar B T**  
Associate Professor  
and PG Coordinator

Department of PG Studies and  
Research In Blotechnology,  
Sahyadri Science College,  
Shivamogga, Karnataka, India.


## CERTIFICATE


This is to certify that the project report entitled "In Vitro Antioxidant and Enzymatic profile of *Jyothi Tunga* rice sample" submitted to the Kuvempu University for the award of Master of Science in Blotechnology by Ms. Chandana H S, is the result of bonafide project work carried out by her under the guidance of Dr. Syed Murthuza, Lecturer, Department of Post Graduate Studies and Research In Blotechnology, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the requirements for the completion of the Degree, Master of Science, Kuvempu University during the year 2022-2023.

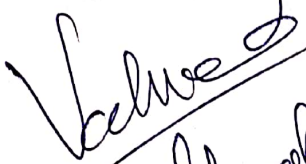
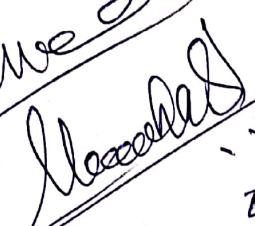

I further certify that this or part thereof has not been previously formed the basis of the award of any degree, associateship, fellowship *etc.* of any other University or Institution.

Date: 05-11-2023

Place: Shivamogga

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

  
**(Dr. Prabhakar B T)**  
**Dr. B.T. Prabhakar**  
Associate Professor  
Department of Blotechnology  
Sahyadri Science College  
Kuvempu University, Shivamogga.

  
  
  
5/11/23  
5/11/23



  
**KUVEMPU UNIVERSITY**

**Department of Biotechnology**

**Dr. Prabhakar B T**  
Associate Professor  
and PG Coordinator

Department of PG Studies and  
Research in Biotechnology,  
Sahyadri Science College,  
Shivamogga, Karnataka, India.

---

**CERTIFICATE**

This is to certify that the project report entitled "**LIQUID MICROBIAL CONSORTIUM: AN INNOVATIVE STEP IN SOIL ENVIRONMENTAL PROTECTION FOR AGRICULTURAL CROPS**" submitted to the Kuvempu University for the award of Master of Science in Biotechnology by Mr. Basavaraju S M, is the result of bonafide project work carried out by him under the guidance of Ms. Nethravathi A M. Lecturer, Department of Post Graduate Studies and Research in Biotechnology, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the requirements for the completion of the Degree, Master of Science, Kuvempu University during the year 2022-2023.

I further certify that this or part thereof has not been previously formed the basis of the award of any degree, associateship, fellowship *etc.* of any other University or Institution.

Date: 05/11/2023

Place: Shivamogga

  
**PRINCIPAL**

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



**PG Coordinator**

**(Dr. Prabhakar B T)**

  
**KUVEMPU UNIVERSITY**

**Department of Biotechnology**

**Dr. Prabhakar B T**  
Associate Professor

Department of PG Studies and  
Research in Biotechnology,  
Sahyadri Science College,  
Shivamogga, Karnataka, India.

---

**CERTIFICATE**

This is to certify that the project report entitled "EVALUATION OF OYSTER MUSHROOM (*Pleurotus Ostreatus*) CULTIVATION USING DIFFERENT AGRICULTURAL SUBSTRATES" submitted to the Kuvempu University for the award of Master of Science in Biotechnology by Ms Akshatha R is the result of bonafide project work carried out by him under the guidance of Dr. Pradeepa K Assistant Professor, Department of Post Graduate Studies and Research in Biotechnology, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the requirements for the completion of the Degree, Master of Science, Kuvempu University during the year 2022-2023.

I further certify that this or part thereof has not been previously formed the basis of the award of any degree, associateship, fellowship *etc.* of any other University or Institution.

Date: 5/11/23

Place: Shivamogga

  
**PRINCIPAL**

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

  
**Dr. Prabhakar B T**  
PG Coordinator  
Associate Professor  
Department of Biotechnology  
(Dr. Prabhakar B T)  
Sahyadri Science College  
Kuvempu University, Shivamogga.



**Department of Biotechnology**

Dr. Prabhakar B T  
Associate Professor and PG Coordinator

Department of PG Studies and Research  
in Biotechnology, Sahyadri Science  
College, Shivamogga, Karnataka, India.

**CERTIFICATE**

This is to certify that the project report entitled "FORMULATION OF FUNGAL AND BACTERIAL INOCULUM AS BIOCONTROL AGENT FOR SUSTAINABLE AGRICULTURE" submitted to the Kuvempu University for the award of Master of Science in Biotechnology by **Ms. DIVYA S**, is the result of bonafide project work carried out by her under the guidance of **Prof. C K RAMESH**. Department of Post Graduate Studies and Research in Biotechnology, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the requirements for the completion of the Degree, Master of Science, Kuvempu University during the year 2022-2023.

I further certify that this or part thereof has not been previously formed the basis of the award of any degree, associateship, fellowship *etc.* of any other University or Institution.

Date: 5. Nov. 2023


Place: Shivamogga

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

  
PG Coordinator

(Dr. Prabhakar B T)

**Dr. B.T. Prabhakar**  
Associate Professor  
Department of Biotechnology  
Sahyadri Science College  
Kuvempu University, Shivamogga

  
**KUVEMPU UNIVERSITY**  
**Department of Biotechnology**

**Dr. Prabhakar B.T**  
**Associate Professor**  
**and PG Coordinator**

**Department of PG Studies and**  
**Research in Biotechnology,**  
**Sahyadri Science College,**  
**Shivamogga, Karnataka, India.**

## CERTIFICATE

This is to certify that the project report entitled "PURIFIED LECTIN FROM DIETARY SOURCE GARLIC EXHIBIT IMMUNOMODULATORY EFFECT" submitted to the Kuvempu University for the award of Master of Science in Biotechnology by Mr. Sandeep P R , is the result of bonafide project work carried out by his undert he guidance of Dr. Banumathi, lecturer Department of Post Graduate Studies and Research in Biotechnology, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the requirements for the completion of the Degree, Master of Science, Kuvempu University during the year 2023-2024.

I further certify that this or part thereof has not been previously formed the basis of the award of any degree, associateship, fellowship *etc.* of any other University or Institution.

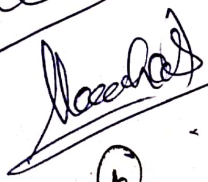
  
**PRINCIPAL**

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

Date :

Place: Shivamogga

  
(Dr. Prabhakar B.T)

*Valued*  
  
5/11/23  
5/11/23



  
**KUVEMPU UNIVERSITY**

**Department of Biotechnology**

**Dr. Prabhakar B T**  
**Associate Professor**  
**and PG Coordinator**

**Department of PG Studies and**  
**Research in Biotechnology,**  
**Sahyadri Science College,**  
**Shivamogga, Karnataka, India.**

**CERTIFICATE**

This is to certify that the project report entitled "PHARMACOKINETICS AND MOLECULAR DOCKING STUDIES OF INDOLYL-PYRIDINE DERIVATIVES" submitted to the Kuvempu University for the award of Master of Science in Biotechnology by Ms. Sneha K, is the result of bonafide project work carried out by her under the guidance of Dr. Pradeepa K. Assistant Professor, Department of Post Graduate Studies and Research in Biotechnology, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the requirements for the completion of the Degree, Master of Science, Kuvempu University during the year 2022-2023.

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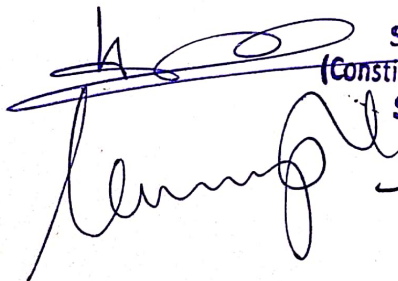
Date : 4/11/23


Place: Shivamogga

*Valen*  
5/11/2023  
*Pradeepa K*  
**PRINCIPAL**

  
**PG Coordinator**

**(Dr. Prabhakar B T)**  
**Dr. B. T. Prabhakar**  
Associate Professor  
Department of Biotechnology  
Sahyadri Science College  
Kuvempu University, Shivamogga.

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

  
**KUVEMPU UNIVERSITY**  
**Department of Biotechnology**


**Dr. Prabhakar B T**  
**Associate Professor**  
**and PG Coordinator**

**Department of PG Studies and**  
**Research in Biotechnology,**  
**Sahyadri Science College,**  
**Shivamogga, Karnataka, India.**

**CERTIFICATE**

This is to certify that the project report entitled "In Vitro Antioxidant and Enzymatic profile of Sahyadri Kempumukthi rice sample" submitted to the Kuvempu University for the award of Master of Science in Biotechnology by **Ms. Ananya T M**, is the result of bonafide project work carried out by her under the guidance of **Dr. Syed Murthuza**, Lecturer, Department of Post Graduate Studies and Research in Biotechnology, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the requirements for the completion of the Degree, Master of Science, Kuvempu University during the year 2022-2023.

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SAHYADRI SCIENCE COLLEGE  
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SHIMOGGA, Karnataka State.

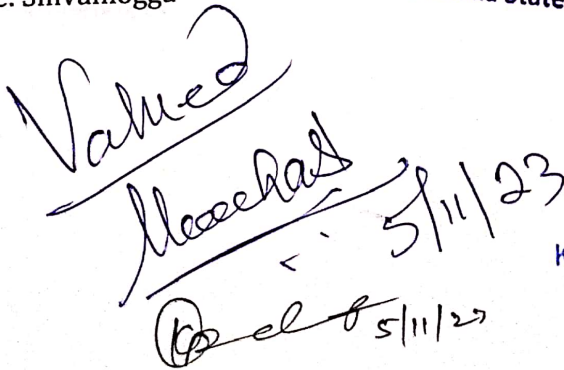


**PG Coordinator**

Date: 05-11-2023


Place: Shivamogga

**(Dr. Prabhakar B T)**

  
Valued  
Meebas  
5/11/23  
5/11/23

**Dr. B.T. Prabhakar**  
Associate Professor  
Department of Biotechnology  
Sahyadri Science College  
Kuvempu University, Shivamogga.



  
**KUVEMPU UNIVERSITY**  
**Department of Biotechnology**

**Dr. Prabhakar B T**  
Associate Professor  
and PG Coordinator

Department of PG Studies and  
Research in Biotechnology,  
Sahyadri Science College,  
Shivamogga, Karnataka, India.

## CERTIFICATE

This is to certify that the project report entitled "Comparative analysis of Nutritional properties in compost and vermicompost using different raw materials" submitted to the Kuvempu University for the award of Master of Science in Biotechnology by Ms. Shubha Urs K V, is the result of bonafide project work carried out by her under the guidance of Ms. Daniya Mehrin. Lecturer, Department of Post Graduate Studies and Research in Biotechnology, Sahyadri Science College, Kuvempu University, Shivamogga for the partial fulfilment of the requirements for the completion of the Degree, Master of Science, Kuvempu University during the year 2022-2023.

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**PRINCIPAL**

SAHYADRI SCIENCE COLLEGE

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

Date :05/11/2023

Place: Shivamogga

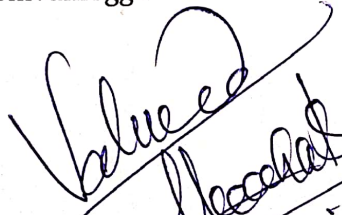
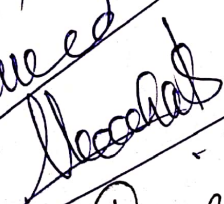



PG Coordinator

(Dr. Prabhakar B T)

**Dr. B.T. Prabhakar**

Associate Professor  
Department of Biotechnology  
Sahyadri Science College  
Kuvempu University, Shivamogga.

  
  
5/11/23  
  
5/11/23