



MANGALORE

UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled “**Studies on the distribution and uptake of radionuclides from soil to medicinal plants in Southwest Coastal Region of Karnataka**” has been successfully carried in the fulfilment of the requirement for the paper PHP 559 during the academic year 2021-22, **Mr. ADARSHA H A (Reg.no: 201641403101)**, student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangotri. This dissertation is approved for the award of **Masters of Physics degree by Mangalore University** during the year 2021-22.


Dr. Terol Narayana

Project Guide


Dr. Ganesh Sanjeev

Chairman

MANGALORE



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DEPARTMENT OF STUDIES IN PHYSICS

Mangalagangothri – 574 199

CERTIFICATE

This is to certify that the dissertation entitled “**Arduino based Sun tracking Solar panel**” has been successfully carried by, **Mr. AKHIL (Reg. No.: 201641403103)** a student of Fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574 199, in the fulfilment of the requirements for the paper PHP 559 during the academic year 2021-22 to the Mangalore University.

This dissertation is approved for the award of **Master of Science In Physics degree** by Mangalore University during the academic year 2021–22.


Internal Guide

(Prof. S M DHARMAPRAKASH)


Chairman

(Prof. GANESH SANJEEV)



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MANGALAGANGOTTHRI-574199



CERTIFICATE

This is to certify that the project entitled “**Synthesis of Cadmium Sulphide (CdS) and Zinc Sulphide (ZnS) by chemical bath method and its characterization**” has been carried as per the requirement for the fourth semester project paper PHP559 by **Ms. Ameera K.A**(Reg.no: 201641403104) and **Ms. Anjali K.V** (Reg.no: 201641403105), the 2020-2022 academic year MSc students of the Department of Physics, Mangalore University, Mangalagangothri.

K. Gopalkrishna Naik

Dr. K. Gopalkrishna Naik.

Project Guide

[Signature]
Chairman



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DEPARTMENT OF STUDIES IN PHYSICS
MANGALAGANGOTHRI-574199



CERTIFICATE

This is to certify that the project entitled “**Synthesis of Cadmium Sulphide (CdS) and Zinc Sulphide (ZnS) by chemical bath method and its characterization**” has been carried as per the requirement for the fourth semester project paper PHP559 by **Ms. Anjali K.V** (Reg.no: 201641403105) and **Ms. Ameera K.A**(Reg.no: 201641403104), the 2020-2022 academic year MSc students of the Department of Physics, Mangalore University, Mangalagangothri.

K. Gopalkrishna Naik

Dr. K. Gopalkrishna Naik.

Project Guide

Examiners:

[Signature]

Chairman



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CERTIFICATE

This is to certify that the project entitled "Synthesis and Characterization of Zinc ferrite nanoparticles" has been successfully carried in the fulfillment of the requirement for the paper PHH559 during the academic year 2021-22, Ms. Anupriya K V (Reg no: 201641403106), student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri. This dissertation is approved for the award of Master of Physics degree by Mangalore University during the year 2021-22.

DR. Y. Narayana

Project Guide

Dr. Ganesh Sanjeev

Chairman

Examiners:

1.

2.

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Mangalagangothri – 574 199

CERTIFICATE

This is to certify that the dissertation entitled “**Arduino based Sun tracking Solar panel**” has been successfully carried by, **Mr. ANURAJ K (Reg. No.: 201641403107)** a student of Fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574 199, in the fulfilment of the requirements for the paper PHP 559 during the academic year 2021-22 to the Mangalore University.

This dissertation is approved for the award of **Master of Science In Physics** degree by **Mangalore University** during the academic year 2021–22.

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(Prof. S M DHARMAPRAKASH)

Chairman

(Prof. GANESH SANJEEV)

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DEPARTMENT OF STUDIES IN PHYSICS

Mangalagangothri – 574 199

CERTIFICATE

This is to certify that the project entitled **“THERMOSTAT”** has been successfully carried by, in the fulfillment of the requirements for the paper PHP559 during the academic year 2021-22,

Ms. ANUSHA G. A. (Reg.No. 201641403108) a student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574199.

This dissertation is approved for the award of **Master of Science in Physics degree by Mangalore University** during the academic year 2021-22.

Internal Guide

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(Prof. GANESH SANJEEV)

MANGALORE



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DEPARTMENT OF STUDIES IN PHYSICS

Mangalagangothri – 574 199

CERTIFICATE

This is to certify that the project entitled “**THERMOSTAT**” has been successfully carried by, in the fulfillment of the requirements for the paper PHP559 during the academic year 2021-22,

Ms. ARPANA E. (Reg.No. 201641403109) a student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574199.

This dissertation is approved for the award of **Master of Science in Physics degree by Mangalore University** during the academic year 2021-22.

Internal Guide

(**Prof. S. M. DHARMAPRAKASH**)

Chairman

(**Prof. GANESH SANJEEV**)


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DEPARTMENT OF STUDIES IN PHYSICS

Mangalagangothri – 574 199

CERTIFICATE

This is to certify that the project entitled “**Temperature sensor**” has been successfully carried by, in the fulfillment of the requirements for the paper PHP559 during the academic year 2021-22, **Ms. Ashvitha N. (Reg. No. 201641403110)** a student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574199.

This dissertation is approved for the award of **Master of Science in Physics degree by Mangalore University** during the academic year 2021-22.


Internal Guide

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CERTIFICATE

This is to certify that the project entitled "Synthesis and characterization of Nickel Ferrite nanoparticles" has been successfully carried in the fulfilment of the requirement for the paper PHP 559 during the academic year 2021-22. Ms. Ashwitha D Souza (Reg.no:201641403111), student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri. This dissertation is approved for the award of Masters of Physics degree by Mangalore University during the year 2021-22.

Dr Y Narayana
Project Guide

Dr Ganesh Sanjeev
Chairman

Examiners

- 1.
- 2.

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CERTIFICATE

This is to certify that the project entitled "Synthesis and characterization of Nickel Ferrite nanoparticles" has been successfully carried in the fulfilment of the requirement for the paper PHP 559 during the academic year 2021-22, Ms. Brenda Fridolin Lobo (Reg.no:201641403112), student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangotri. This dissertation is approved for the award of Masters of Physics degree by Mangalore University during the year 2021-22.


Dr Y Narayana
Project Guide


Dr Ganesh Sanjeev
Chairman

Examiners

- 1.
- 2.



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CERTIFICATE

This is to certify that the project entitled “**Temperature sensor**” has been successfully carried by, in the fulfillment of the requirements for the paper PHP559 during the academic year 2021-22, **Ms. Chaithali (Reg. No. 201641403113)** a student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574199.

This dissertation is approved for the award of **Master of Science in Physics degree by Mangalore University** during the academic year 2021-22.



Internal Guide

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(Prof. GANESH SANJEEV)

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MANGALAGANGOTHRI-574199

CERTIFICATE

This is to certify that the project entitled "**Synthesis of ZnO nanostructured thin films by sol-gel spin coating and its characterization**" has been carried in the fulfillment of the requirement for the fourth semester project paper PHP559 by **Ms. Chaithra D** (Reg.no:201641403114) and **Ms. Keerthi D** (Reg.No: 201641403121), the 2020-2022 academic year MSc students of the Department of Physics, Mangalore University, Mangalagangothri- 574199

K. Gopalkrishna Naik

Dr. K. Gopalkrishna Naik.

Project Guide

Examiners: —
h.k.

Chairman
Chairman

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DEPARTMENT OF STUDIES IN PHYSICS

Mangalagangothri – 574 199

CERTIFICATE

This is to certify that the dissertation entitled “**ARDUINO BASED HOME AUTOMATION SYSTEM**” has been successfully carried by, **Ms. DEEKSHA CHANDRASHEKAR SHETTY** (Reg. No.: 201641403115), a student of Fourth semester **M.Sc. in Physics**, Mangalore University, Mangalagangothri-574 199, in the fulfilment of the requirements for the paper **PHP 559** during the academic year 2021-22 to the Mangalore University.

This dissertation is approved for the award of **Master of Science in Physics** degree by **Mangalore University** during the academic year 2021–22.

Internal Guide

(Prof. S M DHARMAPRAKASH)

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(Prof. GANESH SANJEEV)



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MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled “**Studies on the distribution and uptake of radionuclides from soil to medicinal plants in Southwest Coastal Region of Karnataka**” has been successfully carried in the fulfilment of the requirement for the paper PHP 559 during the academic year 2021-22, **Mr. DINESH HEBBAR (Reg.no: 201641403116)**, student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangotri. This dissertation is approved for the award of **Masters of Physics degree by Mangalore University** during the year 2021-22.


Dr. Yonal Narayana

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Dr. Y Narayana

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Email:narayanay@yahoo.com

CERTIFICATE

This is to certify that the project entitled “**Studies on gamma-ray shielding properties of areca husk fibre reinforced polyester resin composite**” is the work carried out by Ms. Disha (Reg.no. 201641403117) under my guidance and regulation. The candidate is herewith permitted to submit this project to Mangalore University, Mangalagangothri, for the award of Master of Science in Physics.

The information furnished in this project report has not been submitted elsewhere for the award of any Degree, Diploma, Associateship, Fellowship or any other University or Institution.


Prof. Y Narayana

(Project Guide)


Prof. Ganesh Sanjeev

(Chairman)

Examiners:

MANGALORE



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DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTHRI-574199

CERTIFICATE

This is to certify that the project entitled "Synthesis and Characterization of Zinc ferrite nanoparticles" has been successfully carried in the fulfillment of the requirement for the paper PHH559 during the academic year 2021-22, Ms. Elizabeth Jomy (Reg no: 201641403118), student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri. This dissertation is approved for the award of Master of Physics degree by Mangalore University during the year 2021-22 -ಬೆಳವಣಿಗೆ

DR. Y. Narayana

Project Guide

Dr. Ganesh Sanjeev

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Email: narayanay@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A Potential utilization of plantation waste *Acacia auriculiformis* Phyllodes as Biochar : A study on optimization of Pyrolysis Temperature" is the work carried out by **K S ASHADEVI (Reg.no. 201641403119)** under my guidance and supervision. The candidate is herewith permitted to submit this project to Mangalore University, Mangalagangothri, for the award of Master of Science in Physics.

The information furnished in this project report has not been submitted elsewhere for the award of any Degree, Diploma, Associateship, Fellowship or any other University or Institution.


Prof. Y Narayana

(Project guide)

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DEPARTMENT OF STUDIES IN PHYSICS

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CERTIFICATE

This is to certify that the dissertation entitled “**ARDUINO BASED HOME AUTOMATION SYSTEM**” has been successfully carried by, **Mr. KARTHIK P A (Reg. No.: 201641403120)**, a student of Fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574 199, in the fulfilment of the requirements for the paper PHP 559 during the academic year 2021-22 to the Mangalore University.

This dissertation is approved for the award of **Master of Science in Physics** degree by **Mangalore University** during the academic year 2021–22.


Internal Guide

(**Dr. S. W. DEARMAPRAKASH**)


Chairman

(**Prof. GANESH SANJEEV**)



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DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTHRI-574199

CERTIFICATE

This is to certify that the project entitled "**Synthesis of ZnO nanostructured thin films by sol-gel spin coating and its characterization**" has been carried as per the requirement for the fourth semester project paper PHP559 under my guidance by Ms. Keerthi D (Reg.no: 201641403121) and Ms. Chaithra D (Reg.No: 201641403114), the 2020-2022 academic year MSc students of the Department of Physics, Mangalore University, Mangalagangothri.

Dr. K. Gopalkrishna Naik.

Project Guide

Department of Physics

Mangalore University

Mangalagangothri - 574199

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DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTHRI-574199

CERTIFICATE

This is to certify that the project entitled "**Hydrothermal Synthesis of ZnO Nanostructures and its characterization**" has been carried as per the requirement for the fourth semester project paper PHP559 by **Ms.Keerthi.M** (Reg.no:,201641403122) and **Ms.Mallika**(Reg.No: 201641403125), the 2020-2022 academic year MSc students of the Department of Physics, Mangalore University, Mangalagangothri.

K. Gopalkrishna Naik

Dr. K. Gopalkrishna Naik.

Project Guide

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+91-9448429088

Email: narayanay@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A Potential utilization of plantation waste *Acacia auriculiformis* Phyllodes as Biochar : A study on optimization of Pyrolysis Temperature" in the work carried out by M SAHANA RAI (Reg.no. 201641403124) under my guidance and supervision. The candidate is herewith permitted to submit this project to Mangalore University, Mangalagangothri, for the award of Master of Science in Physics.

The information furnished in this project report has not been submitted elsewhere for the award of any Degree, Diploma, Associateship, Fellowship or any other University or Institution.


M. Sahana Rai


Prof. Y Narayana

(Project guide)

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DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTHRI-574199

CERTIFICATE

This is to certify that the project entitled “**Hydrothermal Synthesis of ZnO Nanostructures and its characterization**” has been carried as per the requirement for the fourth semester project paper PHP559 by **Ms.Mallika** (Reg.no: 201641403125) and **Ms.Keerthi.M** (Reg.No: 201641403122), the 2020-2022 academic year MSc students of the Department of Physics, Mangalore University, Mangalagangothri.

K. Gopalkrishna Naik

Dr. K. Gopalkrishna Naik.

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Examiners

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Chairman



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DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTHRI-574199

CERTIFICATE

This is to certify that the project entitled “Synthesis of ZnO and Co-doped ZnO thin films by spray pyrolysis and its characterization” has been carried as per the requirement for the fourth semester project paper PHP559 by **Mr. Manjunath** (Reg.no: 201641403126) and **Mr. Nagaraja** (Reg.No: 201641403131), the 2020-2022 academic year MSc students of the Department of Physics, Mangalore University, Mangalagangothri.

K. Gopalkrishna Naik

Dr. K. Gopalkrishna Naik.

Project Guide

Examiners Naik

Chairman

Chairman

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DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTHRI-574199

CERTIFICATE

This is to certify that the project entitled “**Formation of ZnO/PMMA nanocomposite film by spin coating method and their characterisation**” has been successfully carried in the fulfillment of the requirement for the paper PHP 559 during the academic year 2022 by **Ms. MARIYAMATH NIHALA N A**(Reg.No: 201641403127) and **Ms. MELISHA D SILVA** (Reg.no: 201641403128), the students of fourth semester M.Sc. in the Department of Physics, Mangalore University, Mangalagangothri-574199.

K. Gopalkrishna Naik

Dr. K. Gopalkrishna Naik.

Project Guide

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Mangalore University

Mangalagangothri - 574199

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Chairman

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DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANTHRI-574199

CERTIFICATE

This is to certify that the project entitled **“Formation of ZnO/PMMA nanocomposite film by spin coating method and their characterisation”** has been successfully carried in the fulfillment of the requirement for the paper PHP 559 during the academic year 2022 by **Ms. MELISHA D SILVA** (Reg.no: 201641403128) and **Ms. MARIYAMATH NIHALA N A** (Reg.No: 201641403127), the students of fourth semester M.Sc. in the Department of Physics, Mangalore University, Mangalaganthri-574199.

K. Gopalkrishna Naik

Dr. K. Gopalkrishna Naik.

Project Guide

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Chairman

Examiners
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Dr. Y Narayana

Professor

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Fax: +91824-2287367

Mob: +91-9448429088

Email:narayanay@yahoo.com

CERTIFICATE

This is to certify that the project entitled "Studies on gamma-ray shielding properties of aramid fibre reinforced polyester resin composite" is the work carried out by Mr. Mitharak Khan Pastoni (Reg.no. 201641403130) under my guidance and regulation. The candidate is herewith permitted to submit this project to Mangalore University, Mangalagangothri, for the award of Master of Science in Physics.

The information furnished in this project report has not been submitted elsewhere for the award of any Degree, Diploma, Associateship, Fellowship or any other University or Institution.


Dr. Y Narayana

(Project Guide)


Prof. Ganesh Sanjeev

(Chairman)

MANGALORE



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DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTHRI-574199

CERTIFICATE



This is to certify that the project entitled **“Synthesis of ZnO and Co-doped ZnO thin films by spray pyrolysis and its characterization”** has been carried as per the requirement for the fourth semester project paper PHP559 under my guidance by Mr. NAGARAJA(Reg.no: 201641403131) and Mr. MANJUNATH(Reg.No: 201641403126), the 2020-2022 academic year MSc students of the Department of Physics, Mangalore University, Mangalagangothri.

K. Gopalkrishna Naik

Dr. K. Gopalkrishna Naik.

Project Guide

Department of Physics

Mangalore University

Mangalagangothri - 574199

[Signature]

Examiners:

Dr. Devadas GB - [Signature]

MANGALORE



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DEPARTMENT OF STUDIES IN PHYSICS

Mangalagangothri – 574 199

CERTIFICATE

This is to certify that the dissertation entitled “**Pin diode based fire and light sensor**” has been successfully carried by, **Ms. NIREEKSHA (Reg. No.: 201641403132)** a student of Fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574 199, in the fulfilment of the requirements for the paper PHP 559 during the academic year 2021-22 to the Mangalore University.

This dissertation is approved for the award of **Master of Science In Physics degree by Mangalore University** during the academic year 2021–22.


Internal Guide

(Prof. S M DHARMAPRAKASH)



Chairman


(Prof. GANESH SANJEEV)

CERTIFICATE

I hereby certify that this report entitled “**SYNTHESIS AND CHARACTERISATION OF COPPER OXIDE BASED POLYMER NANOCOMPOSITE**” submitted by Ms. Nischitha W. N to the Mangalore University is the result of the project work carried out by her in the Department of Studies in Physics, Mangalore University, Mangalagangothri, under my guidance and direct supervision.

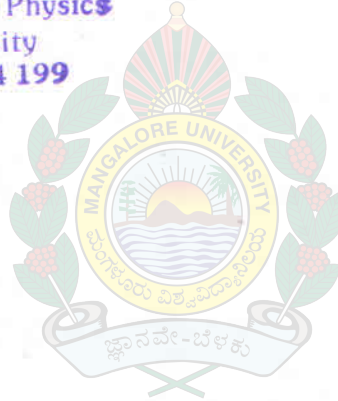
I further certify that this report or any part of this has not previously formed.


Prof. Ganesh Sanjeev
CHAIRMAN
Department of Studies in Physics
Mangalore University
Mangalagangothri - 574 199


Prof. V. Ravindrachary
Project Guide
Department of Physics

Mangalagangothri

Date:



Examiners

1.

2.

MANGALORE



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DEPARTMENT OF STUDIES IN PHYSICS

Mangalagangothri – 574 199

CERTIFICATE

This is to certify that the dissertation entitled “**Pin diode based fire and light sensor**” has been successfully carried by, **Ms. NUTHANA M J (Reg. No.: 201641403134)** a student of Fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574 199, in the fulfilment of the requirements for the paper PHP 559 during the academic year 2021-22 to the Mangalore University.

This dissertation is approved for the award of **Master of Science In Physics degree** by **Mangalore University** during the academic year 2021–22.

Internal Guide

(Prof. S M DHARMAPRAKASH)

Chairman

(Prof. GANESH SANJEEV)



MANGALORE UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled "**GREEN SYNTHESIS OF SILVER NANOPARTICLES: CHARACTERIZATION AND MERCURY SENSING APPLICATION**" has been successfully carried in the fulfilment of the requirement for the paper PHH559 during the academic year 2021-2022, Ms. **PALLAVI K (Reg. No. 201641403135)**, student of fourth semester M. Sc., in Physics, Mangalore University, Mangalagangotri. This dissertation is approved for the award of Master of Science in Physics degree by Mangalore University during the year 2021-2022.


Prof. Y. Sangappa
Project Guide

Dr. Sangappa
M.Sc., M.Phil., Ph.D.
Department of Studies in Physics
Mangalore University
Mangalagangotri - 574 199, India


Prof. Ganesh Sanjeev
The Chairman

MANGALORE



UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled "Self-template synthesis of porous carbon from waste carbon fly ash for advanced energy storage application" has been successfully carried in the fulfilment of the requirement for the paper PHP 559 during the academic year 2021-2022, Submitted by Ms. PARVATI THAKARU RATHOD (Reg.no.201641403136), student of fourth semester M.Sc. in Physics, Mangalore University, Konaje, Mangalagangothri. This dissertation is approved for the degree of Masters of Science in Physics by Mangalore University during the year 2021-22.


Chairman


(Devendrappa H)
Project Guide

List of Examiners



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DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled "**GREEN SYNTHESIS OF SILVER NANOPARTICLES: CHARACTERIZATION AND MERCURY SENSING APPLICATION**" has been successfully carried in the fulfilment of the requirement for the paper PHH559 during the academic year 2021-2022, Ms. **POOJASHREE** (Reg. No. 201641403137), student of fourth semester M. Sc., in Physics, Mangalore University, Mangalagangotri. This dissertation is approved for the award of **Master of Science in Physics degree** by Mangalore University during the year 2021-2022.


Prof. Y. Sangappa
Project Guide

Dr. Sangappa
M.Sc., M.Phil., Ph.D.
Department of Studies in Physics
Mangalore University
Mangalagangotri - 574 199, India


Prof. Ganesh Sanjeev
The Chairman

MANGALORE



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DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled "Self-template synthesis of porous carbon from waste carbon fly ash for advanced energy storage application" has been successfully carried in the fulfilment of the requirement for the paper PHP 559 during the academic year 2021-2022, Submitted by Ms. PRAJNA P S (Reg.no.201641403138), student of fourth semester M.Sc. in Physics, Mangalore University, Konaje, Mangalagangothri. This dissertation is approved for the degree of Masters of Science in Physics by Mangalore University during the year 2021-22.


Chairman


(Devendrappa H)

Project Guide

List of Examiners

1. 
2. 




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MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled "**GREEN SYNTHESIS OF SILVER NANOPARTICLES: CHARACTERIZATION AND MERCURY SENSING APPLICATION**" has been successfully carried in the fulfilment of the requirement for the paper PHH559 during the academic year 2021-2022, Ms. **PRIYANKA DSOUZA (Reg. No. 201641403139)**, student of fourth semester M. Sc., in Physics, Mangalore University, Mangalagangotri. This dissertation is approved for the award of **Master of Science in Physics degree by Mangalore University** during the year 2021-2022.


Prof. Y. Sangappa
Project Guide

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Prof. Ganesh Sanjeev
The Chairman


MANGALORE UNIVERSITY




DEPARTMENT OF STUDIES IN PHYSICS
MANGALAGANGOTRI -574199

CERTIFICATION

This is to certify that the project entitled "SEASONAL VARIATION OF PHYSICAL PROPERTIES OF COW URINE OF DIFFERENT BREEDS AND SYNTHESIS, CHARACTERISATION OF CuFe_2O_4 DOPED POLYMER NANOCOMPOSITE", is carried out by Mr. Raghavendra Kaushal (201641403140) under my guidance and supervision. The information furnished in this project report has not been submitted for any Degree in any University / Institute


Prof. Ganesh Sanjeev
Chairman
Department of Studies in Physics
Department of Physics
Mangalore University
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Prof. V. Ravindrachary
Project Guide
Department of Physics

Date:

Examiners

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DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled "Green Synthesis and Characterization of silver nanoparticles using Calotropis gigantea extract" has been successfully carried in the fulfilment of the requirement for the project work (paper PHP 559) during the academic year 2021-22, submitted by Ms. SAKSHA N (Reg.no- 201641403141), student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangotri. This project report is approved for the part of Masters of Science in Physics degree by Mangalore University during the year 2021-22.


Dr. Devendrappa H

Project Guide


Dr. Ganesh Sanjeev

Chairman



MANGALORE UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled "Green Synthesis and Characterization of silver nanoparticles using Calotropis gigantea extract" has been successfully carried in the fulfilment of the requirement for the project work (paper PHP 559) during the academic year 2021-22, submitted by Ms. SAMANVITHA (Reg.no- 201641403142), student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangotri. This project report is approved for the part of **Masters of Science in Physics degree by Mangalore University** during the year 2021-22.


Dr. Devendrappa H

Project Guide


Dr. Ganesh Sanjeev

Chairman

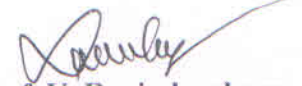
CERTIFICATE

I hereby certify that this report entitled "SYNTHESIS AND CHARACTERISATION OF COPPER OXIDE BASED POLYMER NANOCOMPOSITE" submitted by Ms. Shetty Vinanti Dinesh to the Mangalore University is the result of the project work carried out by her in the Department of Studies in Physics, Mangalore University, Mangalagangothri, under my guidance and direct supervision.

I further certify that this report or any part of this has not previously formed.


Prof. Ganesh Sanjeev

Chairman
CHAIRMAN
Department of Studies in Physics
Department of Physics
Mangalagangothri - 574 199


Prof. V. Ravindrachary
Project Guide
Department of Physics



Mangalagangothri

Date: ,

Examiners

1.

2.




MANGALOREUNIVERSITY
DEPARTMENT OF STUDIES IN PHYSICS
Mangalagangothri – 574 199

CERTIFICATE

This is to certify that the dissertation entitled “**Synthesis of Silver Nanoparticles Using Indian Blackberry: Their Characterization and Antibacterial Activity**” has been successfully carried by **Ms. SHRAVYA (Reg. No.: 201641403144)** a student of Fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574 199, in the fulfilment of the requirements for the paper PHP 559 during the academic year 2021-22 to the Mangalore University.

This dissertation is approved for the award of **Master of Science in Physics degree** by **Mangalore University** during the academic year 2021–22.


Prof. Y Sangappa
Project Guide

Dr. Sangappa
M.Sc., M.Phil., Ph.D.
Department of Studies in Physics
Mangalore University
Mangalagangothri - 574 199. India


Prof. Ganesh Sanjeev
The Chairman



MANGALORE UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled "Green Synthesis and Characterization of silver nanoparticles using Calotropis gigantea extract" has been successfully carried in the fulfilment of the requirement for the project work (paper PHP 559) during the academic year 2021-22, submitted by **Ms. SHREEJA GIRISH (Reg.no- 201641403145)**, student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri. This project report is approved for the part of **Masters of Science in Physics degree by Mangalore University** during the year 2021-22.


Dr. Devendrappa H

Project Guide


Dr. Ganesh Sanjeev

Chairman



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DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled "Green Synthesis and Characterization of silver nanoparticles using Calotropis gigantea extract" has been successfully carried in the fulfilment of the requirement for the project work (paper PHP 559) during the academic year 2021-22, submitted by Ms. SHRINAVI (Reg.no- 201641403146), student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri. This project report is approved for the part of Masters of Science in Physics degree by Mangalore University during the year 2021-22.


Dr. Devendrappa H

Project Guide


Dr. Ganesh Sanjeev

Chairman

MANGALORE



UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled "Self-template synthesis of porous carbon from waste carbon fly ash for advanced energy storage application" has been successfully carried in the fulfilment of the requirement for the paper PHP 559 during the academic year 2021-2022, Submitted by Ms. SINCHANA T S (Reg.no.201641403147), student of fourth semester M.Sc. in Physics, Mangalore University, Konaje, Mangalagangothri. This dissertation is approved for the degree of Masters of Science in Physics by Mangalore University during the year 2021-22.


Chairman


(Devendrappa H)

Project Guide

List of Examiners

CERTIFICATE

I hereby certify that this report entitled "STRUCTURAL AND ELECTRICAL PROPERTIES OF RIPE ARECA HUSK (RAH) EXTRACT DOPED PVA POLYMER COMPOSITE" submitted by **Mr. SOURABH G ANCHAN** (201641403148) to the Mangalore University is the result of the project work carried out by his in the Department of studies in Physics, Mangalore University, Mangalagangothri under my guidance and supervision.

I further certify that this report or any part of this has not previously performed.



Prof. Ganesh Sanjeev
Chairman
Department of studies in Physics
Mangalore University
Mangalagangothri

Prof. V. Ravindrachary
Project Guide
Department of studies in Physics
Mangalore University
Mangalagangothri

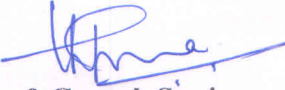
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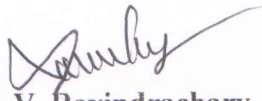
Examiners

CERTIFICATE

I hereby certify that this report entitled “SYNTHESIS AND CHARACTERISATION OF COPPER OXIDE BASED POLYMER NANOCOMPOSITE” submitted by Ms. Sreeshna M (201641403149) to the Mangalore University is the result of the project work carried out by her in the Department of Studies in Physics, Mangalore University, Mangalagangothri, under my guidance and direct supervision.

I further certify that this report or any part of this has not previously formed.


Prof. Ganesh Sanjeev
Chairman
Department of Studies in Physics
Mangalore University
Mangalagangothri - 574 199


Prof. V. Ravindrachary
Project Guide
Department of Physics

Mangalagangothri

Date:



Examiners

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MANGALORE

UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled "Self-template synthesis of porous carbon from waste carbon fly ash for advanced energy storage application" has been successfully carried in the fulfilment of the requirement for the paper PHP 559 during the academic year 2021-2022, Submitted by **Mr. SRI GANESH K N RAO (Reg.no.201641403150)**, student of fourth semester M.Sc. in Physics, Mangalore University, Konaje, Mangalagangothri. This dissertation is approved for the degree of Masters of Science in Physics by Mangalore University during the year 2021-22.


Chairman


(Devendrappa H)

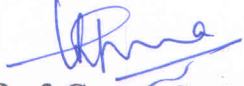
Project Guide

List of Examiners

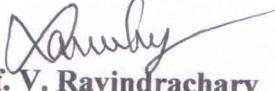
CERTIFICATE

I hereby certify that this report entitled "STRUCTURAL AND ELECTRICAL PROPERTIES OF RIPE ARECA HUSK (RAH) EXTRACT DOPED PVA POLYMER COMPOSITE" submitted by **Mr. SUDARSHANA** (201641403151) to the Mangalore University is the result of the project work carried out by his in the Department of studies in Physics, Mangalore University, Mangalagangothri under my guidance and supervision.

I further certify that this report or any part of this has not previously performed.


Prof. Ganesh Sanjeev
Chairman
Department of studies in Physics
Mangalore University
Mangalagangothri




Prof. V. Ravindrachary
Project Guide
Department of studies in Physics
Mangalore University
Mangalagangothri

Date:

Examiners

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MANGALORE



UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled “Self-template synthesis of porous carbon from waste carbon fly ash for advanced energy storage application “has been successfully carried in the fulfilment of the requirement for the paper PHP 559 during the academic year 2021-2022, Submitted by Ms. SURAKSHITHA G (Reg.no.201641403152), student of fourth semester M.Sc. in Physics, Mangalore University, Konaje, Mangalagangothri. This dissertation is approved for the degree of Masters of Science in Physics by Mangalore University during the year 2021-22.

Chairman

(Devendrappa H)

Project Guide

List of Examiners


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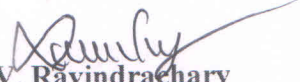
CERTIFICATE

I hereby certify that this report entitled "SYNTHESIS AND CHARACTERISATION OF SILVER NANOPARTICLE DOPED PVA POLYMER COMPOSITE" submitted by Ms. Sushma S (201641403153) to the Mangalore University is the result of the project work carried out by her in the Department of studies in Physics, Mangalore University, Mangalagangothri, under my guidance and supervision.

I further certify that this report or any part of this has not previously performed.


Prof. Ganesh Sanjeev
CHAIRMAN
Department of Studies in Physics
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Mangalagangothri 574 199
Department of studies in Physics
Mangalore University,
Mangalagangothri




Prof. V. Ravindrachary
Project Guide
Department of studies in Physics
Mangalore University,
Mangalagangothri

Place: Magalagangothri

Date:

Examiners

1.

2.



MANGALORE UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled "Green Synthesis and Characterization of silver nanoparticles using Calotropis gigantea extract" has been successfully carried in the fulfilment of the requirement for the project work (paper PHP 559) during the academic year 2021-22, submitted by Ms. SWATHI K S (Reg.no- 201641403154), student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangotri. This project report is approved for the part of Masters of Science in Physics degree by Mangalore University during the year 2021-22.


Dr. Devenarappa H

Project Guide


Dr. Ganesh Sanjeev

Chairman




MANGALOREUNIVERSITY
DEPARTMENT OF STUDIES IN PHYSICS
Mangalagangotri – 574 199

CERTIFICATE

This is to certify that the dissertation entitled “**Synthesis of Silver Nanoparticles Using Indian Blackberry: Their Characterization and Antibacterial Activity**” has been successfully carried by **MR. THEJASWI BHAT K (Reg. No.: 201641403155)** a student of Fourth semester M.Sc. in Physics, Mangalore University, Mangalagangotri-574 199, in the fulfilment of the requirements for the paper PHP 559 during the academic year 2021-22 to the Mangalore University.

This dissertation is approved for the award of **Master of Science in Physics degree** by **Mangalore University** during the academic year 2021–22.


Prof. Y Sangappa
Project Guide
Dr. Sangappa
M.Sc., M.Phil., Ph.D.
Department of Studies in Physics
Mangalore University
Mangalagangotri - 574 199. India


Prof. Ganesh Sanjeev
The Chairman

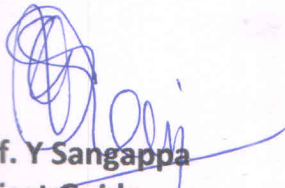


MANGALOREUNIVERSITY
DEPARTMENT OF STUDIES IN PHYSICS
Mangalagangothri – 574 199

CERTIFICATE

This is to certify that the dissertation entitled “**Synthesis of Silver Nanoparticles Using Indian Blackberry: Their Characterization and Antibacterial Activity**” has been successfully carried by **Ms. THEJASWINI R (Reg. No.: 201641403156)** a student of Fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574 199, in the fulfilment of the requirements for the paper PHP 559 during the academic year 2021-22 to the Mangalore University.

This dissertation is approved for the award of **Master of Science in Physics degree** by **Mangalore University** during the academic year 2021–22.


Prof. Y Sangappa
Project Guide
Dr. Sangappa
M.Sc., M.Phil., Ph.D.
Department of Studies in Physics
Mangalore University
Mangalagangothri - 574 199, India


Prof. Ganesh Sanjeev
The Chairman

Certificate

This is to certify that the project entitled "**Development of HPMC/Indian Blackberry-AgNPs Nanocomposites**" has been successfully carried out in the fulfillment of the requirement for the paper PHP559 during the academic year 2021-2022, **Miss. Vaaruni A (Reg. No. 201641403157)**, a student of Fourth- Semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574199. This dissertation is approved for the award of **Master of Science in Physics degree by Mangalore University** during the academic year 2021-2022.



Prof. Y Sangappa
Project Supervisor

Dr. Sangappa

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

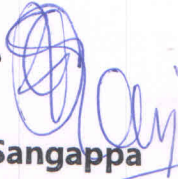
Department of Studies in Physics
Mangalore University
Mangalagangothri - 574 199, India

Prof. Ganesh Sanjeev
The Chairman


Certificate

This is to certify that the project entitled "**Development of HPMC/Indian Blackberry-AgNPs Nanocomposites**" has been successfully carried out in the fulfillment of the requirement for the paper PHP559 during the academic year 2021-2022, **Miss. Vanisree U N Bhat (Reg. No. 201641403158)**, a student of Fourth- Semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574199. This dissertation is approved for the award of **Master of Science in Physics degree by Mangalore University** during the academic year 2021-2022.




Prof. Y Sangappa
Project Supervisor

Dr. Sangappa
M.Sc., M.Phil., Ph.D.
Department of Studies in Physics
Mangalore University
Mangalagangothri - 574 199. India


Prof. Ganesh Sanjeev
The Chairman

CERTIFICATE

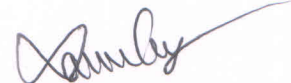
I hereby certify that this report entitled "SYNTHESIS AND CHARACTERISATION OF SILVER NANOPARTICLE DOPED PVA POLYMER COMPOSITE" submitted by Ms. Vasudha (201641403159) to the Mangalore University is the result of the project work carried out by her in the Department of studies in Physics, Mangalore University, Mangalagangothri, under my guidance and supervision.

I further certify that this report or any part of this has not previously performed.



Prof. Ganesh Sanjeev
CHAIRMAN
Department of Studies in Physics
Mangalore University
Mangalagangothri - 574 199

Mangalore University,
Mangalagangothri



Prof. V. Ravindrachary
Project Guide
Department of studies in Physics

Mangalore University,
Mangalagangothri

Place: Magalagangothri

Date:

Examiners


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2.

Certificate

This is to certify that the project entitled "**Development of HPMC/Indian Blackberry-AgNPs Nanocomposites**" has been successfully carried out in the fulfillment of the requirement for the paper PHP559 during the academic year 2021-2022, **Miss. Vidya (Reg. No. 201641403160)**, a student of Fourth- Semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574199. This dissertation is approved for the award of **Master of Science in Physics degree by Mangalore University** during the academic year 2021-2022.




Prof. Y Sangappa
Project Supervisor


Dr. Sangappa
M.Sc., M.Phil., Ph.D.
Department of Studies in Physics
Mangalore University
Mangalagangothri - 574 199. India


Prof. Ganesh Sanjeev
The Chairman

CERTIFICATE

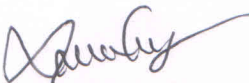
I hereby certify that this report entitled "SYNTHESIS AND CHARACTERISATION OF SILVER NANOPARTICLE DOPED PVA POLYMER COMPOSITE" submitted by Ms. Vijeta Naik (201641403161) to the Mangalore University is the result of the project work carried out by her in the Department of studies in Physics, Mangalore University, Mangalagangothri, under my guidance and supervision.

I further certify that this report or any part of this has not previously performed.


Prof. Ganesh Sanjeev

CHAIRMAN
Chairman
Department of Studies in Physics
Mangalore University
Department of studies in Physics
Mangalore University,

Mangalore University,
Mangalagangothri


Prof. V. Ravindrachary

Project Guide
Project Guide
Department of studies in Physics
Mangalore University,

Mangalore University,
Mangalagangothri

Place: Magalagangothri

Date:

Examiners

1.

2.

MANGALORE UNIVERSITY



DEPARTMENT OF STUDIES IN PHYSICS
MANGALAGANGOTRI -574199

CERTIFICATION

This is to certify that the project entitled "SEASONAL VARIATION OF PHYSICAL PROPERTIES OF COW URINE OF DIFFERENT BREEDS AND SYNTHESIS, CHARACTERISATION OF CuFe_2O_4 DOPED POLYMER NANOCOMPOSITE", is carried out by Mr. Vinayaka R Shenoy (201641403162) under my guidance and supervision. The information furnished in this project report has not been submitted for any Degree in any University / Institute

Prof. Ganesh Sanjeev
Chairman
Department of Physics
Mangalagangotri


Prof. V. Ravindrachary
Project Guide
Department of Physics

Date:

Certificate

This is to certify that the project entitled "**Development of HPMC/Indian Blackberry-AgNPs Nanocomposites**" has been successfully carried out in the fulfillment of the requirement for the paper PHP559 during the academic year 2021-2022, **Mr.Vineet Patil (Reg. No. 201641403163)**, a student of Fourth- Semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574199. This dissertation is approved for the award of **Master of Science in Physics degree by Mangalore University** during the academic year 2021-2022.




Prof. Y Sangappa
Project Supervisor

Dr. Sangappa
M.Sc., M.Phil., Ph.D.
Department of Studies in Physics
Mangalore University
Mangalagangothri - 574 199. India


Prof. Ganesh Sanjeev
The Chairman