

SYNTHESIS AND CHARECTERIZATION OF COBALT FERRITE NANOPARTICLES

Project Report Submitted to Mangalore University

For the award of the degree of Master of Science in Physics



By

ADITHYA B R

(Reg No: 193883101)

Under the supervision of

Dr Y NARAYANA

Professor in Physics

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OCTOBER 2021



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DEPARTMENT OF STUDIES IN PHYSICS

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CERTIFICATE

This is to certify that the project entitled "Synthesis and characterization of cobalt ferrite nanoparticles" has been successfully carried in the fulfillment of the requirement for the paper PHH 559 during the academic year 2020-21, Ms.Adithya B R (Reg.no:193883101), 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 2020-21.


Dr. Y Narayana

Project Guide

Dr. Ganesh Sanjeev

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SYNTHESIS AND CHARECTERIZATION OF COBALT FERRITE NANOPARTICLES

Project Report Submitted to Mangalore University

For the award of the degree of Master of Science in Physics



By

AISWARYA LAKSHMI A

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This is to certify that the project entitled "Synthesis and characterization of cobalt ferrite nanoparticles" has been successfully carried in the fulfillment of the requirement for the paper PHH 559 during the academic year 2020-21, Ms. Aiswarya Lakshmi A (Reg.no:193883102), 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 2020-21.


Dr. Y Narayana

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Dr. Ganesh Sanjeev

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MANGALORE UNIVERSITY



A PROJECT REPORT ON HUMIDITY AND MOISTURE SENSOR

Submitted to the Mangalore University in partial
fulfilment of the requirements for the award of the
degree of

**Master of Science in
Physics**

Submitted by

Akhil Kumar A
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Department of Studies in Physics
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September 2021

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(Accredited by NAAC with 'A' Grade)

DEPARTMENT OF STUDIES IN PHYSICS

Mangalagangothri – 574 199

CERTIFICATE

This is to certify that the project entitled “ **Humidity and Moisture Sensor**” has been successfully carried by, in the fulfillment of the requirements for the paper PHP559 during the academic year 2020-21,

Mr. Akhil Kumar A (Reg.No. 193883103) 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 2020-21.

Internal Guide


Chairman

ARDUINO SYSTEM BASED PULSE SENSOR

A dissertation submitted to the Mangalore University in partial
fulfilment of the requirements for the award of the degree of

Master of Science in Physics



AKSHATHA .A. MOGAVEERA

Reg. No.: 193883104

UNDER THE SUPERVISION OF

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Mangalagangothri – 574199

CERTIFICATE

This is to certify that the dissertation entitled "Arduino System based Pulse Sensor" submitted by Akshatha .A. Mogaveera, II M.Sc. to the Mangalore University, in partial fulfilment of the requirements for the award of the degree of Master of Science in Physics is a bonafide record of project work carried out by her in the Department of Studies in Physics, Mangalore University, under my supervision. I further certify that this thesis or part thereof the basis has not previously been formed for the award of any degree, diploma, and associate-ship of any other University or Institution.

Dr. S.M. Dharmaprakash

Project Guide

MANGALORE UNIVERSITY



A PROJECT REPORT ON HUMIDITY AND MOISTURE SENSOR

Submitted to the Mangalore University in partial
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**Master of Science in
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September 2021

CERTIFICATE

I hereby certify that this report entitled “Humidity and Moisture Sensor” submitted by **Mr. Akshay G K** to the Mangalore University is the result of the project work carried out by him 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. S M Dharmaprakash
Department of Studies in
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– 574 199

Studies on the semiconductor p-n diode I-V characteristics and Solar cell parameters using Solar cell and solar cell modules

Project Report on paper PHP 509 Submitted to Mangalore University



Under the supervision of

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Department of studies in Physics

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November 2021

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MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled **"Studies on the semiconductor p-n diode current-voltage characteristics and solar cell parameters using solar cell and solar cell modules"** has been successfully carried in the fulfillment of the requirement for the paper PHH 559 during the academic year 2021, Ms. Amala Joseph (Reg.no: 193883106), and student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangotri.

K. Gopalkrishna Naik

Dr. K. Gopalkrishna Naik.

Project Guide

Dr. Ganesh Sanjeev

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K. Gopalkrishna Naik

SYNTHESIS AND CHARECTERIZATION OF COBALT FERRITE NANOPARTICLES

Project Report Submitted to Mangalore University

For the award of the degree of Master of Science in Physics



By

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CERTIFICATE

This is to certify that the project entitled "Synthesis and characterization of cobalt ferrite nanoparticles" has been successfully carried in the fulfillment of the requirement for the paper PSHH 559 during the academic year 2020-21, Ms. Anjana N (Reg.no:193883107), 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 2020-21.


Dr. Y. Narayana

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Dr. Ganesh Sanjeev

Chairman

SYNTHESIS AND CHARACTERIZATION OF COPPER OXIDE NANOPARTICLES

Project Report Submitted to Mangalore University

For the award of the degree of Master of Science in Physics



By
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Under the supervision of

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CERTIFICATE

This is to certify that the project entitled "Synthesis and characterization of copper oxide nanoparticles" has been successfully carried in the fulfilment of the requirement for the paper PHH 559 during the academic year 2020-21, Ms Anjitha Ramesh(Reg.no:193883108), 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 2020-21.


Dr. Y Narayana

Project Guide



Dr. Ganesh Sanjeev

Chairman

ARDUINO SYSTEM BASED PULSE SENSOR

A dissertation submitted to the Mangalore University in partial
fulfilment of the requirements for the award of the degree of

Master of Science in Physics



Reg. No.: 193883109

UNDER THE SUPERVISION OF

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Mangalagangothri – 574199

CERTIFICATE

This is to certify that the dissertation entitled "Arduino System based Pulse Sensor" submitted by Ankitha T.G, II M.Sc. to the Mangalore University, in partial fulfilment of the requirements for the award of the degree of Master of Science in Physics is a bonafide record of project work carried out by her in the Department of Studies in Physics, Mangalore University, under my supervision. I further certify that this thesis or part thereof the basis has not previously been formed for the award of any degree, diploma, and associate-ship of any other University or Institution.


Dr. S.M. Dharmaprakash

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SYNTHESIS AND CHARACTERIZATION OF COPPER OXIDE NANOPARTICLES

Project Report Submitted to Mangalore University

For the award of the degree of Master of Science in Physics



By
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CERTIFICATE

This is to certify that the project entitled "Synthesis and characterization of copper oxide nanoparticles" has been successfully carried in the fulfilment of the requirement for the paper PHH 559 during the academic year 2020-21, Ms Anna Maria Dsouza (Reg.no:193883110), 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 2020-21.


Dr. Y. Narayana

Project Guide



Dr. Ganesh Sanjeev

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SYNTHESIS AND CHARACTERIZATION OF COPPER FERRITE NANOPARTICLE

Project Report Submitted to Mangalore University

For the award of the degree of

Master of Science in Physics



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This is to certify that the project entitled "Synthesis and characterization of copper ferrite nanoparticle" has been successfully carried in the fulfilment of the requirement for the paper PHP 559 during the academic year 2020-21, **Ms. Anusha K (Reg.no:193883111)**, 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 2020-21.

Dr. Y Narayana

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Dr. Ganesh Sanjeev

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A PROJECT REPORT ON "DIGITAL THERMOMETER"

Submitted to Mangalore University in partial fulfillment of the
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MASTER OF SCIENCE IN PHYSICS

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CERTIFICATE

This is to certify that the dissertation entitled “Digital Thermometer” submitted by **ANUSHA N.N. II M.Sc.**, to the Mangalore University in partial fulfilment of the requirements for the award of the degree of Master of Science in Physics is a bonafide record of 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 been formed for the award of any degree, diploma and associate-ship of any other University or institution.

Dr. S. M. Dharmaprakash

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A PROJECT REPORT ON “DIGITAL THERMOMETER”

Submitted to Mangalore University in partial fulfillment of the
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MASTER OF SCIENCE IN PHYSICS

Submitted by

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This is to certify that the dissertation entitled "Digital Thermometer" submitted by **ARPITHA M.A. II M.Sc.**, to the Mangalore University in partial fulfilment of the requirements for the award of the degree of Master of Science in Physics is a bonafide record of 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 been formed for the award of any degree, diploma and associate-ship of any other University or institution.


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This is to certify that the dissertation entitled "Digital Thermometer" submitted by **ARPITHA M.A. II M.Sc.**, to the Mangalore University in partial fulfilment of the requirements for the award of the degree of Master of Science in Physics is a bonafide record of 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 been formed for the award of any degree, diploma and associate-ship of any other University or institution.


Dr. S. M. Dharmaprakash

Professor Guide

SYNTHESIS AND CHARACTERIZATION OF COPPER OXIDE NANOPARTICLES

Project Report Submitted to Mangalore University

For the award of the degree of Master of Science in Physics



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DEPARTMENT OF STUDIES IN PHYSICS

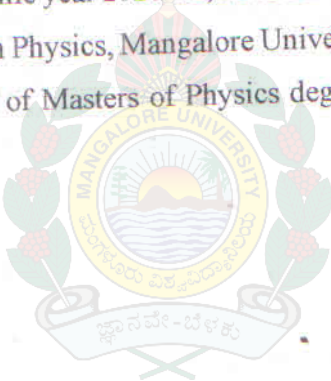
MANGALAGANGOTRI-574199

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This is to certify that the project entitled "Synthesis and characterization of copper oxide nanoparticles" has been successfully carried in the fulfilment of the requirement for the paper PSHH 559 during the academic year 2020-21, Mr. Ashlesh D Alva (Reg.no:193883114), 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 2020-21.


Dr. Y Narayana

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Dr. Ganesh Sanjeev

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Studies on Current-Voltage characteristics of semi-conductor photodiodes and phototransistor

Project Report on paper PHP 559 Submitted to Mangalore University



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This is to certify that the project entitled "Studies on Current-Voltage characteristics of semiconductor photodiodes and phototransistor" has been successfully carried in the fulfilment of the requirement for the paper PHH 559 during the academic year 2020-21, Mr. Atul Narayan (Reg.no:193883115) and the students of fourth-semester M.Sc. in Physics, Mangalore University, Mangalagangotri. -574199

K. Gopalakrishna Naik

Prof. K. Gopalakrishna Naik

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SYNTHESIS AND CHARACTERIZATION OF COPPER FERRITE NANOPARTICLE

Project Report Submitted to Mangalore University

For the award of the degree of

Master of Science in Physics



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This is to certify that the project entitled "Synthesis and characterization of copper ferrite nanoparticle " has been successfully carried in the fulfilment of the requirement for the paper PHP 559 during the academic year 2020-21, **Ms. Chandana K M (Reg.no:193883116)**, 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 2020-21.


Dr. Y Narayana

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Dr. Ganesh Sanjeev

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DIFFERENT TYPES OF LED'S AND THEIR I-V CHARACTERISTICS

Project Report on paper PHP 559 Submitted to Mangalore University



By

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CERTIFICATE

This is to certify that the project entitled "Different types of LED's and their I-V characteristics" has been successfully carried in the fulfilment of the requirement for the paper PHH 559 during the academic year 2020-21, Mr. Chandrachar A G (Reg.no:193883117) and the students of fourth-semester M.Sc. in Physics, MangaloreUniversity, Mangalagangotri-574199

K. Gopalakrishna Naik

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Prof. Ganesh Sanjeev

Prof. Ganesh Sanjeev

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K. Gopalakrishna Naik

STUDIES OF I-V CHARACTERISTICS OF DIFFERENT LEDs AND LASERS

Project Report on paper PHP 559 Submitted to Mangalore University



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CERTIFICATE

This is to certify that the project entitled "STUDIES OF I-V CHARACTERISTICS OF DIFFERENT LEDs AND LASERS" has been successfully carried in the fulfilment of the requirement for the paper PHH 559 during the academic year 2020-21, Mr.Dinesh BH (Reg.no:193883118) and Mr. Madhu R (Reg. No. : 193883130) the students of fourth-semester M.Sc. in Physics, Mangalore University, Mangalagangothri. -574199

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DIFFERENT TYPES OF LED'S AND THEIR I-V CHARACTERISTICS

Project Report on paper PHP 559 Submitted to Mangalore University.



HARSHAL JASON D'SOUZA

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CERTIFICATE

This is to certify that the project entitled "Different types of LED's and their I-V characteristics" has been successfully carried in the fulfilment of the requirement for the paper PHH 559 during the academic year 2020-21, Mr. Harshal Jason DSouza (Reg.no:193883119), student of fourth-semester M.Sc. in Physics, Mangalore University, Mangalagangothri-574199.

K. Gopalakrishna Naik
Prof. K. Gopalakrishna Naik

Project Guide

Ganesh Sanjeev
Prof. Ganesh Sanjeev

Chairman

Valued
K. Gopalakrishna Naik

MANGALORE UNIVERSITY



A PROJECT REPORT ON ARDUINO SYSTEM BASED LIGHT SENSOR

Submitted to the Mangalore University in partial fulfilment
of the requirements for the award of the degree of

Master of Science in Physics

Submitted by

HARSHITHA T

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Mangalagangothri - 574199**

September 2021

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UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

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CERTIFICATE

This is to certify that the dissertation entitled “Arduino System based Light Sensor” submitted by Harshitha T. II M.Sc. to the Mangalore University, in partial fulfilment of the requirements for the award of the degree of Master of Science in Physics is a bonafide record of project work carried out by her in the Department of Studies in Physics, Mangalore University, under my supervision. I further certify that this thesis or part thereof the basis has not previously been formed for the award of any degree, diploma, and associate-ship of any other University or Institution.

Prof.Dr. S M Dharmaprakash

Professor

Department of Studies in Physics,

Mangalore University,

Mangalagangothri – 574 199

MANGALORE UNIVERSITY



A PROJECT REPORT ON ARDUINO SYSTEM BASED LIGHT SENSOR

Submitted to the Mangalore University in partial fulfilment
of the requirements for the award of the degree of

Master of Science in Physics

Submitted by

HATHEEJATHUL NASREEYA

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Mangalore University
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September 2021

MANGALORE



UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

Mangalagangothri – 574 199

CERTIFICATE

This is to certify that the dissertation entitled “Arduino System based Light Sensor” submitted by Hatheejathul Nasreeya. II M.Sc. to the Mangalore University, in partial fulfilment of the requirements for the award of the degree of Master of Science in Physics is a bonafide record of project work carried out by her in the Department of Studies in Physics, Mangalore University, under my supervision. I further certify that this thesis or part thereof the basis has not previously been formed for the award of any degree, diploma, and associate-ship of any other University or Institution.


Prof. Dr. S M Dharmaprakash

Professor

Department of Studies in Physics,

Mangalore University,

Mangalagangothri – 574 199

MANGALORE UNIVERSITY



A PROJECT REPORT ON
**"STRUCTURAL AND ELECTRICAL PROPERTIES OF $\text{Mg}(\text{NO}_3)_2$ DOPED
PVA POLYMER COMPOSITE"**

Submitted to Mangalore University in partial fulfillment of the
requirements for the award of the degree of

**MASTER OF SCIENCE
IN
PHYSICS**

Submitted by
HIRAN DEVA K

M.Sc. PHYSICS
Register No. : 193883122

Project work was carried out at
Department of Studies in Physics
Mangalore University
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November 2021

CERTIFICATE

I hereby certify that this report entitled "*STRUCTURAL AND ELECTRICAL PROPERTIES OF $Mg(NO_3)_2$ DOPED PVA POLYMER COMPOSITE*" submitted by Mr Hiran Deva K (193883122) to the Mangalore University is the result of the project work carried out by him 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 Physics

Prof. V. Ravindrachary
Project Guide
Department of Physics

Mangalagangothri
Date:



Examiners

1.

2.

MANGALORE UNIVERSITY



A PROJECT REPORT ON
"STRUCTURAL AND ELECTRICAL PROPERTIES OF $\text{Mg}(\text{NO}_3)_2$ DOPED
PVA POLYMER COMPOSITE"

Submitted to Mangalore University in partial fulfillment of the
requirements for the award of the degree of
MASTER OF SCIENCE
IN
PHYSICS

Submitted by
JYOTHI

M.Sc. PHYSICS

Register No. : 193883123

Project work was carried out at
Department of Studies in Physics
Mangalore University
Mangalagangothri - 574199

November 2021

CERTIFICATE

I hereby certify that this report entitled "*STRUCTURAL AND ELECTRICAL PROPERTIES OF $Mg(NO_3)_2$ DOPED PVA POLYMER COMPOSITE*" submitted by Ms. Jyothi (193883123) 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 Physics

Mangalagangothri

Date:



Prof. V. Ravindrachary

Project Guide

Department of Physics



Examiners

1.

2.

CERTIFICATE

I hereby certify that this report entitled "*STRUCTURAL AND ELECTRICAL PROPERTIES OF $Mg(NO_3)_2$ DOPED PVA POLYMER COMPOSITE*" submitted by Ms. Jyothi (193883123) 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 Physics



Prof. V. Ravindrachary

Project Guide

Department of Physics

Mangalagangothri

Date:



Examiners

1.

2.

MANGALORE UNIVERSITY



A PROJECT REPORT ON
"STRUCTURAL AND ELECTRICAL PROPERTIES OF $\text{Mg}(\text{NO}_3)_2$ DOPED
PVA POLYMER COMPOSITE"

Submitted to Mangalore University in partial fulfillment of the
requirements for the award of the degree of

MASTER OF SCIENCE
IN
PHYSICS

Submitted by

KAVYA G K

M.Sc. PHYSICS

Register No. : 193883124

Project work was carried out at
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November 2021

CERTIFICATE

I hereby certify that this report entitled "*STRUCTURAL AND ELECTRICAL PROPERTIES OF $Mg(NO_3)_2$ DOPED PVA POLYMER COMPOSITE*" submitted by Ms. Kavya G K (193883124) 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 Physics

Prof. V. Ravindrachary
Project Guide
Department of Physics

Mangalagangothri

Date:



Examiners

1.

2.

MANGALORE UNIVERSITY



A PROJECT REPORT ON

“SYNTHESIS AND CHARACTERISATION OF CARBON BLACK BASED POLYMER NANOCOMPOSITE”

**Submitted to Mangalore University in partial fulfillment of the
requirements for the award of the degree of**

**MASTER OF SCIENCE
IN
PHYSICS**

Submitted by

Kavya V

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Mangalagangothri-574199

November 2021

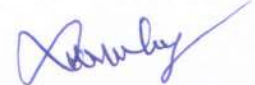
CERTIFICATE

I hereby certify that this report entitled "SYNTHESIS AND CHARACTERISATION OF CARBON BLACK BASED POLYMER NANOCOMPOSITE" submitted by Ms. Kavya V (193883125) to 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 formed.



Prof. Ganesh Sanjeev
Chairman
Department of Physics



Prof. V. Ravindrachary
Project Guide
Department of Physics

Mangalagangothri

Date:

Examiners

1.

2.

MANGALORE UNIVERSITY



A PROJECT REPORT ON

“Microstructural and Electrical Properties of SnCl₂ doped PVA Polymer Composite”

Submitted to Mangalore University in partial fulfilment of the
requirements for the award of the degree of

MASTER OF SCIENCE

IN PHYSICS

Submitted by

Kavyashree

M.Sc PHYSICS

Register number: 193883126

Project work was carried out at

Department of Studies in Physics

Mangalore University

Mangalagangothri- 574199

CERTIFICATE

I hereby certify that this report entitled "Microstructural and Electrical Properties of SnCl_2 doped PVA Polymer Composite" submitted by Ms. Kavyashree (193883126) 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.

Prof. Ravindrachary

Project guide

Department of studies in Physics
Mangalore University,
Mangalagangothri.



Place: Mangalagangothri

Date:

Examiners

1.

2.

I-V CHARACTERISTICS OF P-N JUNCTION AND SCHOTTKY DIODE USING KEITHLEY 2400 SOURCE METER

Project Report on Paper PHP 559 Submitted to Mangalore University



Under the supervision of

Prof. Gopalakrishna Naik K

Department of studies in Physics

Mangalore University, Mangalagangothri -574199

Mangalore

OCTOBER-2021



MANGALORE

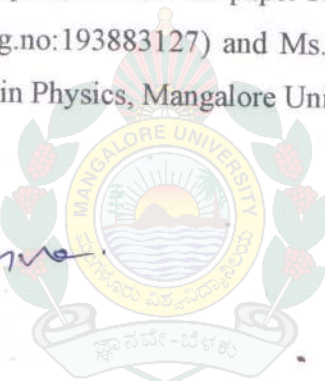
UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTHTRI-574199

CERTIFICATE

This is to certify that the project entitled "I-V CHARACTERISTICS OF P-N JUNCTION AND SCHOTTKY DIODE USING KEITHLEY 2400 SOURCE METER" has been successfully carried in the fulfilment of the requirement for the paper PHH 559 during the academic year 2020-21 by Ms. Kshama K (Reg.no:193883127) and Ms. Lakshmi N (Reg.no:193883128) student of fourth-semester M.Sc. in Physics, Mangalore University, Mangalagangothri.



K. Gopalakrishna Naik

Prof K. Gopalakrishna Naik

Prof Ganesh Sanjeev

Prof Ganesh Sanjeev

Project Guide

Chairman

Valued
K. Gopalakrishna Naik

I-V CHARACTERISTICS OF P-N JUNCTION AND SCHOTTKY DIODE USING KEITHLEY 2400 SOURCE METER

Project Report on Paper PHP 559 Submitted to Mangalore University



Under the supervision of

Prof. Gopalakrishna Naik K

Department of studies in Physics

Mangalore University, Mangalagangothri -574199

Mangalore

OCTOBER-2021



MANGALORE

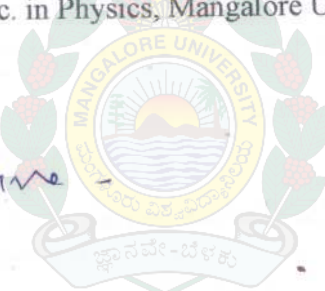
UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTTHRI-574199

CERTIFICATE

This is to certify that the project entitled "I-V CHARACTERISTICS OF P-N JUNCTION AND SCHOTTKY DIODE USING KEITHLEY 2400 SOURCE METER" has been successfully carried in the fulfilment of the requirement for the paper PHH 559 during the academic year 2020-21 by Ms. Kshama K (Reg.no:193883127) and Ms. Lakshmi N (Reg.no:193883128) student of fourth-semester M.Sc. in Physics, Mangalore University, Mangalagangothri.


K. Gopalakrishna Naik
Prof K. Gopalakrishna Naik

Ganesh Sanjeev
Prof Ganesh Sanjeev

Project Guide

Chairman

Vahmed
K. Gopalakrishna Naik

Studies on the semiconductor p-n diode I-V characteristics and Solar cell parameters using Solar cell and solar cell modules

Project Report on paper PHP 509 Submitted to Mangalore University



Under the supervision of

Prof. GOPALAKRISHNA NAIK

Department of studies in Physics

Mangalore University, Mangalagangothri-574199, Mangalore

November 2021

MANGALORE



UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTHRI-574199

CERTIFICATE

This is to certify that the project entitled "Studies on the semiconductor p-n diode current-voltage characteristics and solar cell parameters using solar cell and solar cell modules" has been successfully carried in the fulfillment of the requirement for the paper PHH 559 during the academic year 2021, Ms.Lavanya c (Reg.no: 193883129), and student of fourth semester M.Sc. in Physics, Mangalore University, Mangalagangothri.

K. Gopalkrishna Naik

Dr. K. Gopalkrishna Naik.

Project Guide

Dr. Ganesh Sanjeev

Dr. Ganesh Sanjeev

Chairman

Valued
K. Gopalkrishna Naik

120

STUDIES OF I-V CHARACTERISTICS OF DIFFERENT LEDs AND LASERS

Project Report on paper PHP 559 Submitted to Mangalore University



Under the supervision of

Prof. K. GOPALAKRISHNA NAIK

Department of studies in Physics

Mangalore University, Mangalagangothri -574199

Mangalore

OCTOBER-2021



MANGALORE UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

This is to certify that the project entitled "STUDIES OF I-V CHARACTERISTICS OF DIFFERENT LEDs AND LASERS" has been successfully carried in the fulfilment of the requirement for the paper PHH 559 during the academic year 2020-21, Mr.Dinesh BH (Reg.no:193883118) and Mr. Madhu R (Reg. No. : 193883130) the students of fourth-semester M.Sc. in Physics, Mangalore University, Mangalagangothri. -574199


Prof. K. Gopalakrishna Naik


Prof. Ganesh Sanjeev

Project Guide

Chairman


R. Gopalakrishna Naik

MANGALORE UNIVERSITY



A PROJECT REPORT ON

“Microstructural and Electrical Properties of SnCl_2 doped PVA Polymer Composite”

Submitted to Mangalore University in partial fulfilment of the
requirements for the award of the degree of

MASTER OF SCIENCE

IN

PHYSICS

Submitted by

Mahima Gouda

M.Sc PHYSICS

Register number: 193883131

Project work was carried out at

Department of Studies in Physics

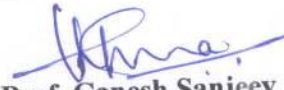
Mangalore University

Mangalagangothri- 574199

CERTIFICATE

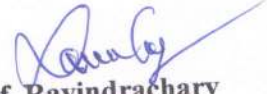
I hereby certify that this report entitled "Microstructural and Electrical Properties of SnCl_2 doped PVA Polymer Composite" submitted by Ms. Mahima Gouda (193883131) to the Mangalore University is the result of the project work carried out by her in the Department of Studies in Physics, Mangalore University, 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.




Prof. Ravindrachary

Project guide
Department of studies in Physics
Mangalore University,
Mangalagangothri.

Place: Mangalagangothri

Date:

Examiners

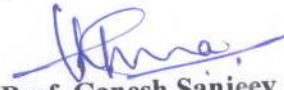
1.

2.

CERTIFICATE

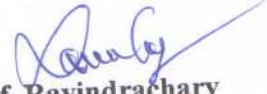
I hereby certify that this report entitled "Microstructural and Electrical Properties of SnCl_2 doped PVA Polymer Composite" submitted by Ms. Mahima Gouda (193883131) to the Mangalore University is the result of the project work carried out by her in the Department of Studies in Physics, Mangalore University, 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.




Prof. Ravindrachary

Project guide
Department of studies in Physics
Mangalore University,
Mangalagangothri.

Place: Mangalagangothri

Date:

Examiners

1.

2.

MANGALORE UNIVERSITY



A PROJECT REPORT ON

“SYNTHESIS AND CHARACTERISATION OF CARBON BLACK BASED POLYMER NANOCOMPOSITE”

Submitted to Mangalore University in partial fulfillment of the
requirements for the award of the degree of

MASTER OF SCIENCE

**IN
PHYSICS**

Submitted by

Manju P V

M.Sc. PHYSICS

Register No.:193883132

Project work was carried out at
Department of Studies in Physics

**Mangalore University
Mangalagangothri-574199**

November 2021

CERTIFICATE

I hereby certify that this report entitled "SYNTHESIS AND CHARACTERISATION OF CARBON BLACK BASED POLYMER NANOCOMPOSITE" submitted by Ms. Manju P V (193883132) to 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 formed.


Prof. Ganesh Sanjeev
Chairman
Department of Physics
Mangalagangothri




Prof. V. Ravindrachary
Project Guide
Department of Physics

Date:

Examiners

1. 

2.

**One-step carbonization of rock structured morphology by
Waste Fly Ash Material for Energy Storage Application**

PROJECT REPORT

**SUBMITTED IN THE PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR
THE PROJECT WORK OF THE**

IV SEMESTER MSC IN PHYSICS

Submitted By

Miss. Megha L.S

Reg No.193883133



Under the supervision of

Dr. Devendrappa H

Professor

**Department of Physics,
Mangalore University, Mangalagangothri
Mangalore, India**

November 2021

CERTIFICATE

This is to certify that the project entitled “**One-step carbonization of rock structured morphology by Waste Fly Ash Material for Energy Storage Application**” is the work carried out by **NAME: Megha L.S (Reg.no.193883133)** under my guidance and regulation. The information furnished in this project report has not been submitted for the award of any Degree or Diploma in any University / Institution.


Chairman




(Devendrappa H)
Project guide

List of Examiners

- 1.
2. 

MANGALORE UNIVERSITY



A PROJECT REPORT ON ARDUINO SYSTEM BASED LIGHT SENSOR

Submitted to the Mangalore University in partial fulfilment
of the requirements for the award of the degree of

Master of Science in Physics

Submitted by

MONISHA . T

M.Sc. PHYSICS

(Reg. No. – 193883134)

**Department of Studies in Physics
Mangalore University
Mangalagangothri - 574199**

September 2021



DEPARTMENT OF STUDIES IN PHYSICS

Mangalagangothri – 574 199

CERTIFICATE

This is to certify that the dissertation entitled “Arduino System based Light Sensor” submitted by Monisha T. II M.Sc. to the Mangalore University, in partial fulfilment of the requirements for the award of the degree of Master of Science in Physics is a bonafide record of project work carried out by her in the Department of Studies in Physics, Mangalore University, under my supervision. I further certify that this thesis or part thereof the basis has not previously been formed for the award of any degree, diploma, and associate-ship of any other University or Institution.


Prof. Dr. S M Dharmaprakash
Professor
Department of Studies in Physics,
Mangalore University,
Mangalagangothri – 574 199

Project Report

**Characterization of activated carbon prepared from Caryota
Urens and Fish tail palm seed**



Submitted by

Mustafa attar (193883135)

Thripathi (193883156)

Under the supervision of

Dr. Devendrappa H

Professor

Department of Studies Physics
Mangalore University, Mangalagangothri
Karnataka, India-574199

MANGALORE UNIVERSITY

**DEPARTMENT OF STUDIES
IN PHYSICS**

MANGALAGANGOTHRI-574199

CERTIFICATE

This is to certify that the project "Characterization of activated carbon prepared from Caryota Urens and Fish tail palm seed" entitled has been successfully carried in the Department of Physics by Mr. Mustafa Attar, student of fourth semester M.Sc. (Physics), under the supervision and guidance of Dr. Devendrappa. H, Department of Studies in Physics, Mangalore University, Mangalagangothri-574199.


Project Guide

Chairman


R. Brohara Krishna

WEARABLE ELECTRONICS FOR MONITORING HUMAN HEALTH INFORMATION

A DISSERTATION SUBMITTED FOR THE AWARD
OF DEGREE OF

MASTER OF SCIENCE IN PHYSICS

To

MANGALORE UNIVERSITY



SUBMITTED BY

NUSRATH FATHIMA

REG. NUMBER - 193883136

UNDER THE SUPERVISION OF

DR. Y. SANGAPPA

PROFESSOR

DEPARTMENT OF STUDIES IN PHYSICS
MANGALORE UNIVERSITY
MANGALAGANGOTHRI - 574199, INDIA

NOVEMBER 2021

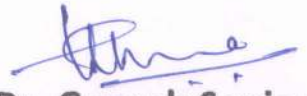
CERTIFICATE

This is to certify that the project entitled **"Wearable Electronics for Monitoring Human Health Information"** has been successfully carried out in the fulfillment of the requirement for the paper PHP559 during the academic year 2020-21, **Ms. Nusrath Fathima (Reg. No. 193883136)**, 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 2020-21.


Dr. Y Sangappa
Project Guide

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




Dr. Ganesh Sanjeev
The Chairman


8/1/22

MANGALORE UNIVERSITY



A PROJECT REPORT ON

“SYNTHESIS AND CHARACTERISATION OF CARBON BLACK BASED POLYMER NANOCOMPOSITE”

Submitted to Mangalore University in partial fulfillment of the
requirements for the award of the degree of

MASTER OF SCIENCE

IN

PHYSICS

Submitted by

Patel Kamini Ben

M.Sc. PHYSICS

Register No.:193883137

Project work was carried out at
Department of Studies in Physics

Mangalore University
Mangalagangothri-574199

November 2021

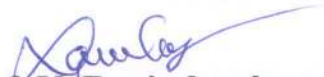
CERTIFICATE

I hereby certify that this report entitled "SYNTHESIS AND CHARACTERISATION OF CARBON BLACK BASED POLYMER NANOCOMPOSITE" submitted by Ms. Patel Kamini Ben (193883137) to 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 formed.



Prof. Ganesh Sanjeev
Chairman
Department of Physics
Mangalagangothri



Prof. V. Ravindrachary
Project Guide
Department of Physics

Date:

Examiners

1.

2.

OPTICAL RESPONSE OF A NONLINEAR KDP SINGLE CRYSTAL

Project Report Submitted to Mangalore University in partial
fulfilment of the requirements for the award of the degree of
Master of Science in Physics



Department of Studies in Physics
Mangalore University, Mangalagangothri-574199
Mangalore, Karnataka, India
September 2021



DEPARTMENT OF STUDIES IN PHYSICS

Mangalore University

Mangalagangothri-574199

Mangalore, Karnataka, India

Dr. Ganesh Sanjeev
Head, Microtron Centre & Professor

CERTIFICATE

This is to certify that the project entitled "**Optical Response of a Nonlinear KDP Single Crystal**" is the work carried out by Ms. PAVITHRA, reg:193883138, under my supervision. The information furnished in this project report has not been submitted for the award of any Degree/ Diploma in any University/ Institution.

(Ganesh Sanjeev)

Examiners:

1.

2.

5/1/22

**One-step carbonization of rock structured morphology by
Waste Fly Ash Material for Energy Storage Application**

PROJECT REPORT

**SUBMITTED IN THE PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR
THE PROJECT WORK OF THE**

IV SEMESTER MSC IN PHYSICS

Submitted By

Mr. Praneeth R

Reg No.193883139



Under the supervision of

Dr. Devendrappa H

Professor

**Department of Physics,
Mangalore University, Mangalagangothri
Mangalore, India**

November 2021

CERTIFICATE

This is to certify that the project entitled “**One-step carbonization of rock structured morphology by Waste Fly Ash Material for Energy Storage Application**” is the work carried out by **NAME: Praneeth R (Reg.no.193883139)** under my guidance and regulation. The information furnished in this project report has not been submitted for the award of any Degree or Diploma in any University / Institution.


Chairman




(Devendrappa H)
Project guide

List of Examiners

- 1.
2. 

SYNTHESIS AND RADIATION EFFECTS ON ZINC SULPHIDE THIN FILM

Project Report Submitted to Mangalore University in partial
fulfilment of the requirements for the award of the degree of

Master of Science in Physics

Paper PHP559



By

Prateeksha Datta Kharvi

193883140

Department of Studies in Physics

Mangalore University, Mangalagangothri-574199

Mangalore, Karnataka, India

September 2021



DEPARTMENT OF STUDIES IN PHYSICS

Mangalore University

Mangalagangothri-574199

Mangalore, Karnataka, India

Dr. Ganesh Sanjeev
Head, Microtron Centre & Professor

CERTIFICATE

This is to certify that the project entitled “**SYNTHESIS AND RADIATION EFFECTS ON ZINC SULPHIDE THIN FILM**” is the work carried out by Prateeksha Datta Kharvi under my supervision. The information furnished in this project report has not been submitted for the award of any Degree/ Diploma in any University/ Institution.

(Ganesh Sanjeev)

Examiners:

1.

2.

THE EFFECT OF GAMMA RADIATION ON STRUCTURAL AND OTHER PROPERTIES OF POLYCARBONATE FILMS

Project Report Submitted to Mangalore University in partial fulfilment of the
requirements for the award of the degree of **Master of Science in Physics**



Submitted By

PRINCITA GAZEL FERRAO

193883141

Department of Studies in Physics

Mangalore University, Mangalagangothri-574199

Mangalore, Karnataka, India



DEPARTMENT OF STUDIES IN PHYSICS

Mangalore University

Mangalagangothri-574199

Mangalore, Karnataka, India

Dr. Ganesh Sanjeev
Head, Microtron Centre & Professor

CERTIFICATE

This is to certify that the project entitled “**THE EFFECT OF GAMMA RADIATION ON STRUCTURAL AND OTHER PROPERTIES OF POLYCARBONATE FILMS**” is the work carried out by Princita Gazel Ferrao under my supervision. The information furnished in this project report has not been submitted for the award of any Degree/ Diploma in any University/ Institution.


(Ganesh Sanjeev)

Examiners:

1.

2.

5/1/22

Phone: +91 824 2287274 / 2888728 E-mail: ganeshsanjeev@rediffmail.com

WEARABLE ELECTRONICS FOR MONITORING HUMAN HEALTH INFORMATION

A DISSERTATION SUBMITTED FOR THE AWARD
OF DEGREE OF

MASTER OF SCIENCE IN PHYSICS

To

MANGALORE UNIVERSITY



REG. NUMBER - 193883142

UNDER THE SUPERVISION OF

DR. Y. SANGAPPA

PROFESSOR

DEPARTMENT OF STUDIES IN PHYSICS
MANGALORE UNIVERSITY
MANGALAGANGOTHRI - 574199, INDIA

NOVEMBER 2021

CERTIFICATE

This is to certify that the project entitled "**Wearable Electronics for Monitoring Human Health Information**" has been successfully carried out in the fulfillment of the requirement for the paper PHP559 during the academic year 2020-21, **Ms. R Smita (Reg. No. 193883142)**, 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 2020-21.


Dr. Y Sangappa
Project Guide

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




Dr. Ganesh Sanjeev
The Chairman

SYNTHESIS AND RADIATION EFFECTS ON COPPER OXIDE THIN FILM

Project Report Submitted to Mangalore University in partial
fulfilment of the requirements for the award of the degree of

Master of Science in Physics

Paper PHP559



Department of Studies in Physics

Mangalore University, Mangalagangotri-574199

Mangalore, Karnataka, India

September 2021



DEPARTMENT OF STUDIES IN PHYSICS

Mangalore University

Mangalagangothri-574199

Mangalore, Karnataka, India

Dr. Ganesh Sanjeev
Head, Microtron Centre & Professor

CERTIFICATE

This is to certify that the project entitled **"SYNTHESIS AND RADIATION EFFECT ON COPPER OXIDE THIN FILM"** is the work carried out by **R.V.Charishma** under my supervision. The information furnished in this project report has not been submitted for the award of any Degree/ Diploma in any University/ Institution.


(Ganesh Sanjeev)

Examiners:

1.

2.

**One-step carbonization of rock structured morphology by
Waste Fly Ash Material for Energy Storage Application**

PROJECT REPORT

**SUBMITTED IN THE PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR
THE PROJECT WORK OF THE
IV SEMESTER MSC IN PHYSICS**

Submitted By

Miss. Raksha D Salián

Reg No.193883144



Under the supervision of

Dr. Devendrappa H

Professor

**Department of Physics,
Mangalore University, Mangalagangothri**

Mangalore, India

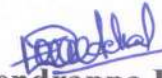
November 2021

CERTIFICATE

This is to certify that the project entitled “**One-step carbonization of rock structured morphology by Waste Fly Ash Material for Energy Storage Application**” is the work carried out by **NAME: Raksha D Salian (Reg.no.193883144)** under my guidance and regulation. The information furnished in this project report has not been submitted for the award of any Degree or Diploma in any University / Institution.


Chairman




(Devendrappa H)
Project guide

List of Examiners

- 1.
2. 

Studies on Current-Voltage characteristics of semi-conductor photodiodes and phototransistor

Project Report on paper PHP 559 Submitted to Mangalore University

By
S ARAVIND



Under the supervision of

Prof. K. GOPALAKRISHNA NAIK

Department of studies in Physics

Mangalore University, Mangalagangothri -574199

Mangalore

OCTOBER-2021



MANGALORE

UNIVERSITY

DEPARTMENT OF STUDIES IN PHYSICS

MANGALAGANGOTRI-574199

CERTIFICATE

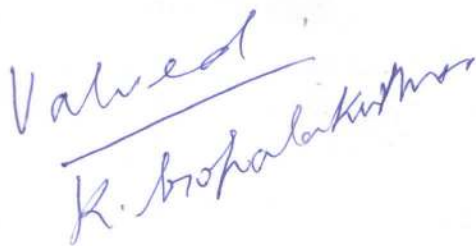
This is to certify that the project entitled "Studies on Current-Voltage characteristics of semiconductor photodiodes and phototransistor" has been successfully carried in the fulfilment of the requirement for the paper PHH 559 during the academic year 2020-21, Mr.S Aravind (Reg.no:193883145) and the students of fourth-semester M.Sc. in Physics, Mangalore University, Mangalagangotri. -574199


Prof. K. Gopalakrishna Naik

Project Guide


Prof. Ganesh Sanjeev

Chairman

Valued


SYNTHESIS AND RADIATION EFFECTS ON ALUMINIUM THIN FILM

Project Report Submitted to Mangalore University in partial
fulfilment of the requirements for the award of the degree of

Master of Science in Physics

Paper PHP559



Department of Studies in Physics

Mangalore University, Mangalagangothri-574199

Mangalore, Karnataka, India

September 2021



DEPARTMENT OF STUDIES IN PHYSICS

Mangalore University

Mangalagangothri-574199

Mangalore, Karnataka, India

Dr. Ganesh Sanjeev
Head, Microtron Centre & Professor

CERTIFICATE

This is to certify that the project entitled “**SYNTHESIS AND RADIATION EFFECT ON ALUMINIUM THIN FILM**” is the work carried out by **Sahana(193883146)** under my supervision. The information furnished in this project report has not been submitted for the award of any Degree/ Diploma in any University/ Institution.



(Ganesh Sanjeev)

Examiners:

1.

2.

FLEXIBLE ELECTRONICS AND ITS APPLICATIONS

A DISSERTATION SUBMITTED FOR THE AWARD
OF DEGREE OF

MASTER OF SCIENCE IN PHYSICS

To

MANGALORE UNIVERSITY



REG. NUMBER - 193883147

UNDER THE SUPERVISION OF

DR. Y. SANGAPPA

PROFESSOR

DEPARTMENT OF STUDIES IN PHYSICS
MANGALORE UNIVERSITY
MANGALAGANGOTHRI - 574199, INDIA

NOVEMBER 2021

CERTIFICATE

This is to certify that the project entitled "**Flexible Electronics and Its Applications**" has been successfully carried out in the fulfillment of the requirement for the paper PHP559 during the academic year 2020-21, **Mr. Sanketha M. (Reg. No. 193883147)**, 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 2020-21.




Dr. Y Sangappa

Project Guide

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

Dr. Ganesh Sanjeev
The Chairman

**One-step carbonization of rock structured morphology by
Waste Fly Ash Material for Energy Storage Application**

PROJECT REPORT

**SUBMITTED IN THE PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR
THE PROJECT WORK OF THE**

IV SEMESTER MSC IN PHYSICS

Submitted By

Miss. Sharanya

Reg No.193883148



Under the supervision of

Dr. Devendrappa H

Professor

**Department of Physics,
Mangalore University, Mangalagangothri
Mangalore, India**

November 2021

CERTIFICATE

This is to certify that the project entitled “**One-step carbonization of rock structured morphology by Waste Fly Ash Material for Energy Storage Application**” is the work carried out by **NAME: Sharanya (Reg.no.193883148)** under my guidance and regulation. The information furnished in this project report has not been submitted for the award of any Degree or Diploma in any University / Institution.


Chairman




(Devendrappa H)
Project guide

List of Examiners

- 1.
2. 

FLEXIBLE ELECTRONICS AND ITS APPLICATIONS

**A DISSERTATION SUBMITTED FOR THE AWARD
OF DEGREE OF**

MASTER OF SCIENCE IN PHYSICS

To

MANGALORE UNIVERSITY



SHARATH K S

REG. NUMBER - 193883149

UNDER THE SUPERVISION OF

DR. Y. SANGAPPA

PROFESSOR

**DEPARTMENT OF STUDIES IN PHYSICS
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MANGALAGANGOTHRI - 574199, INDIA**

NOVEMBER 2021

FLEXIBLE ELECTRONICS AND ITS APPLICATIONS

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NOVEMBER 2021

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This is to certify that the project entitled "**Flexible Electronics and Its Applications**" has been successfully carried out in the fulfillment of the requirement for the paper PHP559 during the academic year 2020-21, **Mr. Sharath K S (Reg. No. 193883149)**, 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 2020-21.




Dr. V. Sangappa

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Dr. Ganesh Sanjeev
The Chairman

WEARABLE ELECTRONICS FOR MONITORING HUMAN HEALTH INFORMATION

A DISSERTATION SUBMITTED FOR THE AWARD
OF DEGREE OF

MASTER OF SCIENCE IN PHYSICS

To

MANGALORE UNIVERSITY



REG. NUMBER- 193883150

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This is to certify that the project entitled "**Wearable Electronics for Monitoring Human Health Information**" has been successfully carried out in the fulfillment of the requirement for the paper PHP559 during the academic year 2020-21, **Ms. Shreevidya A (Reg. No. 193883150)**, 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 2020-21.


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Dr. Ganesh Sanjeev
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**3D-HONEYCOMB LIKE POROUS STRUCTURE FROM BIO-WASTE
MATERIAL FOR ENERGY STORAGE APPLICATIONS**

PROJECT REPORT

SUBMITTED IN THE PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
PROJECT WORK OF THE

IV SEMESTER MSC IN PHYSICS

Submitted By

Name: SHWETHA N

Reg No.: 193883151

Name: SUSHMA N

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Chairman


Project guide

(Dr.Devendrappa H)

List of Examiners

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2. 

NEED OF SECURITY ALARM WITH MOTION SENSOR

A DISSERTATION SUBMITTED FOR THE AWARD
OF DEGREE OF

MASTER OF SCIENCE IN PHYSICS

To

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SUBMITTED BY

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The Chairman


6/1/22

THE EFFECT OF GAMMA RADIATION ON CHEMICAL AND OTHER PROPERTIES OF POLYCARBONATE FILMS

Project Report Submitted to Mangalore University in partial
fulfilment of the requirements for the award of the degree of
Master of Science in Physics



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November 2021**



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Mangalore, Karnataka, India

Dr. Ganesh Sanjeev
Head, Microtron Centre & Professor

CERTIFICATE

This is to certify that the project entitled “**THE EFFECT OF GAMMA RADIATION ON CHEMICAL AND OTHER PROPERTIES OF POLYCARBONATE FILMS**” is the work carried out by SOORYATHEJAS C under my supervision. The information furnished in this project report has not been submitted for the award of any Degree/ Diploma in any University/ Institution.


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THE EFFECT OF GAMMA RADIATION ON OPTICAL AND OTHER PROPERTIES OF POLYCARBONATE FILMS

Project Report Submitted to Mangalore University in partial
fulfilment of the requirements for the award of the degree of
Master of Science in Physics



By
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November 2021



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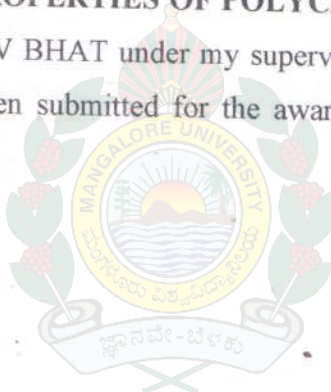
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**3D-HONEYCOMB LIKE POROUS STRUCTURE FROM BIO-WASTE
MATERIAL FOR ENERGY STORAGE APPLICATIONS**

PROJECT REPORT

SUBMITTED IN THE PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
PROJECT WORK OF THE

IV SEMESTER MSC IN PHYSICS

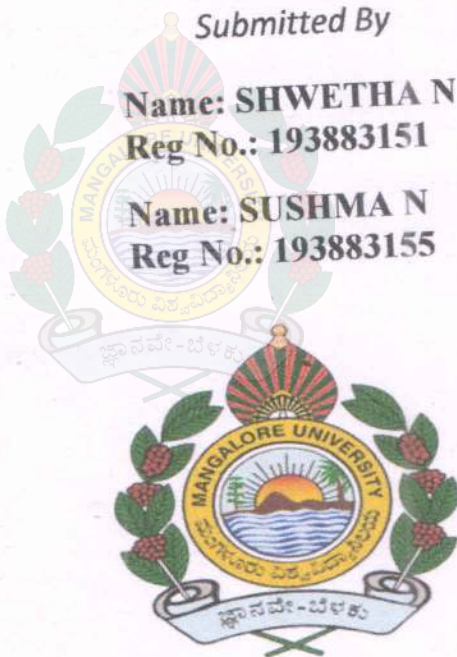
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This is to certify that the project entitled “3D-HONEYCOMB LIKE POROUS STRUTURE FORM BIO-WASTE MATERIAL FOR ENERGY STORAGE APPLICATIONS” is the work carried out by NAME: SUSHAMA N (Reg.no. 193883155) under my guidance and regulation. The information furnished in this project report has not been submitted for the award of any Degree or Diploma in any University / Institution.


Chairman


Project guide

(Dr.Devendrappa H)

List of Examiners

- 1.
2. K. brofala K. Bina,

Project Report

**Characterization of activated carbon prepared from Caryota
Urens and Fish tail palm seed**



Submitted by

Mustafa attar (193883135)

Thripathi (193883156)

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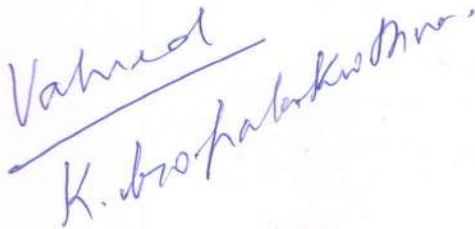
CERTIFICATE

This is to certify that the project "Characterization of activated carbon prepared from Caryota Urens

and Fish tail palm seed" entitled has been successfully carried in the Department of Physics by Mrs. Thripthi, student of fourth semester M.Sc. (Physics), under the supervision and guidance of Dr. Devendrappa. H, Department of Studies in Physics, Mangalore University, Mangalagangothri-574199.


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Vahned
K. brohadekku

THE EFFECT OF GAMMA RADIATION ON ELECTRICAL AND OTHER PROPERTIES OF POLYCARBONATE FILMS

Project Report Submitted to Mangalore University in partial
fulfilment of the requirements for the award of the degree of
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This is to certify that the project entitled “**THE EFFECT OF GAMMA RADIATION ON ELECTRICAL AND OTHER PROPERTIES OF POLYCARBONATE FILMS**” is the work carried out by TREESA MARY under my supervision. The information furnished in this project report has not been submitted for the award of any Degree/ Diploma in any University/ Institution.


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FLEXIBLE ELECTRONICS AND ITS APPLICATIONS

**A DISSERTATION SUBMITTED FOR THE AWARD
OF DEGREE OF**

MASTER OF SCIENCE IN PHYSICS

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This is to certify that the project entitled "**Flexible Electronics and Its Applications**" has been successfully carried out in the fulfillment of the requirement for the paper PHP559 during the academic year 2020-21, **Mr. Jayakumar K (Reg. No. 193883158)**, 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 2020-21.




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SYNTHESIS AND CHARACTERIZATION OF PANI/GO COMPOSITE

PROJECT REPORT

SUBMITTED IN THE PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE PROJECT WORK OF THE
IV SEMESTER MSC IN PHYSICS

Submitted By

Mr. V JAYACHANDRA REDDY

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AND

Mr. VISHWAJITH B PARANJAPE

(Reg No.193883160)



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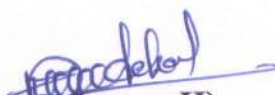
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This is to certify that the project entitled "SYNTHESIS AND CHARACTERIZATION OF PANI/GO COMPOSITE" is the work carried out by Mr. V JAYACHANDRA REDDY (Reg.no.193883159) under my guidance. The information furnished in this project report has not been submitted for the award of any Degree or Diploma in any University / Institution.


(Devendrappa H)

Project guide

List of Examiners

1.

2.



SYNTHESIS AND CHARACTERIZATION OF PANI/GO COMPOSITE

PROJECT REPORT

SUBMITTED IN THE PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE PROJECT WORK OF THE
IV SEMESTER MSC IN PHYSICS

Submitted By

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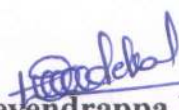
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This is to certify that the project entitled "SYNTHESIS AND CHARACTERIZATION OF PANI/GO COMPOSITE" is the work carried out by **Mr. VISHWAJITH B PARANJAPE** (Reg.no.193883160) under my guidance. The information furnished in this project report has not been submitted for the award of any Degree or Diploma in any University / Institution.




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Project guide

List of Examiners

1.

2.





NEED OF SECURITY ALARM WITH MOTION SENSOR

A DISSERTATION SUBMITTED FOR THE AWARD
OF DEGREE OF

MASTER OF SCIENCE IN PHYSICS

To

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YATHEESH KUMAR. K

REG. NUMBER – 193883161

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NOVEMBER 2021

CERTIFICATE

This is to certify that the project entitled **"NEED OF SECURITY ALARM WITH MOTION SENSOR"** has been successfully carried out in the fulfillment of the requirement for the paper PHP559 during the academic year 2020-21, **Mr. Yatheesh Kumar. K (Reg. No. 193883161)**, a student of Fourth-Semester **B.Sc. in Physics**, Mangalore University, Mangalagangothri-574199. This ~~disertation~~ is approved for the award of **Master of Science in Physics degree** by **Mangalore University** during the academic year 2020-21.




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