

2017-2018

SL No	Topic	Name of Student	Guide
01	Spectral Analysis of Bare Yttrium doped tin oxide on thin film via Spray pyrolysis Technique	Ashwini Dalwai(PHY16106) Seemakousar Rangapur(PHY16133) Shirin Nayakodi(PHY16135) YasmeenBanu Hadaginal(PHY16151)	Miss. Jayashree Biradar
02	Synthesis characterization & Optical Properties of Conducting Polyneline doped with Cadium nano particles	Savita K More(PHY16132) Vidyshree. G.Metagar(PHY16147)	Miss Lakshmi P Murgod
03	Synthesis and characterization of polyaniline/ Nickle Titanate Composite	Afrozparveen A Kaladgi (PHY16101)	Miss Lakshmi P.Murgod
04	Synthesis and characterization of polypyrrole/BaO ₂ Composites	Akshata.N Jambagi(PHY16102) Vidyashree.A.Koulagi (PHY16146)	Miss Lakshmi P.Murgod
05	Preparation of Langmuir Monolayer of Cholesterol	Chetana.B Ainapur(PHY16110) Priyanka. Belawadi (PHY16126) Barkha. Begum Arakeri (PHY16109)	Miss Gazala Agasbal
06	Physico Chemical and Spectral Studies of Edible oils	Divya Devashetti (PHY16111) Nirmala Patil(PHY16121) Pooja Mirajkar (PHY16123) Siddamma Patil(PHY16139)	Miss Jayashree Biradar
07	Synthesis and Charaterization of Polyaniline/ BaO ₂ Composite	Yalasangi. Pallavi Mallinath(PHY16149)	MissLakshmi.P Murgod
08	Comparison of Stresses for photoelastic Models having different profile Geometry subjected to compressive load	Ashwini Doddamani (PHY16149) Renuka D Patil (PHY16128) Sumitra M Chakrasali (PHY16143)	Miss Gazala Agasbal
09	Investigation of the Specific Heat Capacity of Hybrid Composites	Arifanaz Bilgi (PHY16104) Ibtesam Jagirdar (PHY16112) Saniya Inamdar(PHY16130) Suma S.Y (PHY16142)	Vani Desai
10	Formation of Monolayer with Stearic Acid and Cholestrol	Jyoti Sarashetti (PHY16113) Poornima Lakkundi (PHY16124) Sudha Nayak (PHY16141)	Miss Gazala Agasbal
11	Synthesis and Characterization of Polypyrrole /NiTiO ₃ Composite	Anita Menasanqi (PHY16103) Sapna Ayatawad (PHY16131)	Miss Lakshmi Murgod


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12	Synthesis and Characterization of Nano Composite using Chemical Method	Megha Hanjagi (PHY16118) Nirmala Benahal(PHY16120) Rohini Mali (PHY16129) Srujana(PHY16140)	Mrs. Swati Patil
13	Synthesis and characterization of Copper Oxide nanoparticles by Co-precipitation Method	Kalimabi Tikotikar (PHY16114) Sheetal Pawar(PHY16134) Vijayalaxmi Kumashi(PHY16148) Zairabi Shaikh(PHY16152)	Mr.Mohammedali D. Kakhandaki
14	Synthesis and characterization of Zinc Oxide nanoparticles by Co-precipitation Method	Shridevi Patil Preeti Nikkam Shruti Yadur Tahseen Madbhavi	Mr.Mohammedali D. Kakhandaki
15	Synthesis of Titanium nanoparticles using Hydrothermal Method	Ashwini Akki(PHY16105) Laxmi Kulkarni(PHY16115) Monika Manepur(PHY16119) Priyanka Kumbar(PHY16127) Shruti Bagali(PHY16137)	Vani Desai
16	One-Pot Green Synthesis of Carbon dots using Ocimum Tenuiflorum via Hydro Thermal Method	Asifa Khan(PHY161) Malinabi Mulimani(PHY16131) Tabassum Mushraf(PHY16131) Yashoda Naik(PHY16131)	Mrs Swati Patil

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2018-2019

SL No	Topic	Name of Student	Guide
01	Synthesis and transmittance study of lead sulphide (PbS) thin by chemical bath deposition method	Basamma:PHY17105 Denamma:PHY17108 Kavita: PHY17116 Rajeshwari :PHY17124 Sneha:PHY17134	Mr.M.D.Kakhandaki
02	Synthesis of Zinc Sulphide nanoparticles by residual method using chemical bath deposition	Deepika:PHY17110 Farhanaz: PHY17113 Pooja : PHY17121 Rukhsarsultana :PHY17127 Taizeen :PHY171236	Mrs.Gazala Agasbal
03	Influence of Fe doping on titanium dioxide nanoparticles on their structural and optical properties	Aishwarya: PHY17102 Chaitra: PHY17107 Naveena : PHY17119 Pallavi: PHY17120 Pooja: PHY17122	Dr.Vani.R.Desai
04	Cocos Nucifera extract Mediated green synthesis of titanium dioxide nanoparticles	Afreen: PHY17101 Fareeda : PHY17112 Farhat : PHY17114 Khudeja :PHY17117 Sana:PHY171128	Dr.Vani.R.Desai
05	Synthesis and characterization of zirconium nanoparticles with Neem leaves extract and its antibacterial activity	Sayeda :PHY17130 Sarawati:PHY17129 Yaseem PHY17138	Jayashree Biradar
06	Synthesis and characterization of Zinc Sulphide Thin film by Chemical Deposition Method	Deekshita Kalahastimath:PHY17109 Rayiya Gadiwan: PHY17125 Seema S Meti :PHY17131 Surabhi S Londave :PHY17135	Mrs.Gazala Agasbal
07	Effect of Cadmium doping on Optical properties of Lead Sulphide(PbS) Thinfilms	Ashwini Ashok Burali: PHY17103 Raziya Bagban: PHY17126 Priyanka Shripal Prathamashetti: PHY17123 Shahistafahim Gaded: PHY17132	Mr.M.D.Kakhandaki
08	Synthesis & Analysis of Zirconium Nanoparticles by using Tulsi Leaf	Shridevi Simpi: PHY17133 Aparna Awati: PHY17104 Basavajyoti Patil: PHY17106 Vishalakshi Hiremath: PHY17137	Jayashree Biradar


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2019-2020

SL No	Topic	Name of Student	Guide
01	Electrical Properties of Fruits :Wild Cucurbits-A Case Study	Akshata Banasode(PH181001) Aishwarya(PH181001)	Dr.Suresh Pattar
02	Synthesis and Characterization of Prussian blue	AnitaBandrad(PH181003) Ashwini Nayaka (PH181004) Kaveri Navhi(PH18007) Megha Khanapur(PH181010) Supriya Atanur(PH181029)	Ms. Mangala Mantur
03	Green Synthesis and IR spectroscopy of Lanthanum doped Zirconium Oxide Nano particles	Ayeesha Satarekar(PH181005) Shirinfarah Mujawar(PH181021) Sobiya Akkalkot(PH181026) Zainab Firdose(PH181031)	1)Mr.Mohammedali D. Kakhandaki 2)Dr.Irfan Ahamed N.Shaikh
04	Effect of Annealing on optical properties of PbS thin film by CBD Method	Heena Kausar Chattarki (PH181006) Layeeba Turki(PH181009) Nazmeen Hachayal (PH181011) Sumaiya Kolar (PH181028)	Mr.Mohammedali D. Kakhandaki
05	Synthesis and characterization of Zirconium Nanoparticles with Milletta Pinnata	Ramya Kundanagur(PH181017) Laxmimata Kulakarni (PH181008) Sheetal Sajjan (PH181020) Shruti Yatagir (PH181023)	Dr.Swetha
06	Study of Gamma Rays Scintillation Dioxo Uranium Metal complex	Shweta Kamat (PH181024) Vaishali Sonad (PH181027) Savita Tuppad(PH181019) Priyanka Gayakwad(PH181015)	Dr.Suresh Pattar
07	Synthesis of Zinc Oxide Nanoparticles by Chemical Method	Pooja Chougala(PH181013) Prasheela E M(PH181014) Priyanka Patil(PH181016) Shweta Mooganur(PH181025)	Dr.Swetha

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2020-21

SL No	Topic	Name of Student	Guide
01	Organic Semiconductors- A Review	Shireen Razvi PH191021 Daneshwari Sultanpur PH191011 Aswini Nagarahalli PH191008	Dr. Swetha
02	Role of GM Counter in the survey of Radioactive Particles in Granites	Aishwarya Yadawad PH191012 Annapurna B Katti PH191006 Atika Mulla PH191009 Bibiayasha Dhavalagi PH191010	Dr. Swetha
03	Discovering Environmental Radioactivity : Using Granites	Rajeshwari Kadapatti PH191014 Sonali Waghmore PH191024 Sudha Kallennavar PH191026 Sushma Tonashyal PH191033 Amrin Akkalkot PH191004	Dr. Suresh C. Pattar
04	Spectroscopic Investigation of Fruits: Dragon Fruit	Suman korti PH191029 Medhavi Thakur PH191012 Aishwarya Biradar PH191001 Suman Vastrad PH191028 Vidya Koti PH191036	Dr. Suresh C. Pattar
05	Spintronics: A Review of Ferromagnetic Materials	Sana Meerajamadar PH191018 Sheetalaxmi PH191020 Sumayyakousar Masali PH191036	Dr. Suresh C. Pattar
06	Investigation of Gamma Ray Shielding by multi-layer combinations of Lead and Copper	Ruksar Banu Z Jamadar PH191016 Sanajana S Honwadkar PH191019 SufiyaBanu K Bangdiwale PH191027 Supriya S B PH191032 Tasleema A Horti PH191034	MohammedaliD.Kakhandaki
07	Review study on Synthesis and Characterization of Multi Layer Thin Films using Spray Pyrolysis Techniques	Anam Zeba Galagali PH191005 Arshiya Malbari PH191007 Sadiqa Shirol PH191017 Summaiya Karajagi PH191031 Tasneem Kousar Risaldar PH191035	Mangala Mantur
08	A Review of Nobel Metal Nanoparticles; Gold and Silver	Ambika Badiger PH191003 Meenakshi Patil PH191013 Renuka Pujari PH191015 Shruti Biradar PH191023 Yasmin Jiddi PH191037	Priyanka Patil

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2021-22

SL No	Topic	Name of Student	Guide
01	Application of Artificial Intelligence and Machine Learning in Nuclear Physics- a Review	Pooja Saraje PH201021 Jareena Banu Kuknur PH201014 Sanakausar Bagawan PH201029 Farhana Jahagirdar PH201011	Dr. Swetha
02	Synthesis and Characterisation of Ferroelectric eramics	Shaila Pawar PH201032 Parveen Nadaf PH201019 Preeti Jadhav PH201022 BasammaChikkatti PH201008 KrishnaveniNimbal PH201015	Dr. Swetha
03	Green Synthesis using mint leaves and characterisation of Zirconia (ZrO_2) Nano Particles	Afreen Shaik PH201002 Heenakousar Jamadar PH201013 PallavuWalikar PH201017 Pavitra P H201020 Reshma PH201024	Dr. Suresh C. Pattar
04	Electric Transport Properties of a Pressmud beyond juice and Ethanol	Afreen Mulla PH201001 Deepa Hugar PH201010 GayithriVijapur PH201012 Srishti Ammajigol PH201035 Trupti Dambalkar PH201040	Dr. Suresh C. Pattar
05	Investigation of Radioactive particles in press mud of the Krishna basin sugar industries	SayedAsfiya Inamdar PH201031 SumayyaAwati PH201037 Tarannum Mulla PH201039 Umme Salam Totad PH201041 UzmaKousar Mulla PH201042	Dr. Suresh C. Pattar
06	Investigation of Gamma Ray Backscattering by multi-layer combinations of Aluminium and Copper	Aishwarya D.Hunuur PH201003 Roopa S. Nimbaragi PH201025 Sadikhakhan Pathan PH201027 Shruti S.Joshi PH201033 Sudha M. Pattar PH201036	MohammedaliD.Kakhandaki
07	Determining Adulterants in Milk by Calculating Attenuation Coefficient of Gamma Rays	Aishwarya Yaraddi PH201004 Ningammahortikar PH201016 Rashida Bagwan PH201023 Ruksad Khatoon Malik PH201026 Shweta Kalagurki PH201034	MohammedaliD.Kakhandaki
08	Spectral Investigation of Pressmud, a waste of Sugar industries on the bank of River Krishna	Bhagyashri Holi PH201004 Parvati Nimbaragi PH201018 Sahana Naaz Junnedi PH201028 Savita Kadakol PH201030 Vandana Daddimani PH201043	Dr. Suresh C. Pattar


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Project report on
**“SPECTRAL ANALYSIS OF BARE YTTRIUM DOPED TIN
OXIDE ON THIN FILM VIA SPRAY PYROLYSIS
TECHNIQUE”**

A dissertation submitted for the partial fulfillment of the requirements of the degree of

MASTER OF SCIENCE

IN

PHYSICS

Submitted by

Ashwini Dalwai (PHY16106)

Seemakousar Rangapur (PHY16133)

Shirin Nayakodi (PHY16135)

Yasmeen Banu Hadaginal (PHY16151)

Under the guidance of

MISS.JAYASHREE BIRADAR



Department of Physics

AKKAMAHADEVI WOMENS UNIVERSITY

Jnanashakti campus, Toravi

Vijayapura-586108

2017-2018



Akkamahadevi Women's University, Vijayapur

Department of Physics

CERTIFICATE

This is to certify that the project work entitled Spectral analysis of bare Yttrium doped Tin oxide on thin films via spray pyrolysis technique has been submitted by Ashwini Dalwai, Seemakousar Rangapur, Shirin Nayakodi, Yasmeenbanu Hadaginal in partial fulfillment of the award of the Master Degree in Physics, Akkamahadevi Women's University, Vijayapura, in the year 2018.

N. Shwetha 3/2/18

Co-ordinator

Department of physics

Biradar
30/06/18

Ms. Jayashree Biradar

Guide

EXAMINERS

- 1) *[Signature]* 6/7/18
- 2) *[Signature]*

A Project report on
**SYNTHESIS CHARACTERIZATION, AND OPTICAL
PROPERTIES OF CONDUCTING POLYNELINE DOPED
WITH CADMIUM NANOPARTICLES**

For the award of the degree of
MASTER OF SCIENCE

**IN
PHYSICS**

By

Vidyashree. G. Metagar Reg.No.PHY16147

Savita. K. More Reg.No.PHY16132

Under the Guidance of
Miss.Lakshmi. P. Murgod



Department of Physics

AKKAMAHADEVI WOMEN'S UNIVERSITY

Vijayapur-586108

2017-18



**AKKAMAHADEVI WOMEN'S UNIVERSITY
VIJAYAPUR**

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the dissertation entitled "SYNTHESIS CHARACTERIZATION, AND OPTICAL PROPERTIES OF CONDUCTING POLYNELINE DOPED WITH CADMIUM NANOPARTICLES" submitted by Vidyashree G. Metagar and Savita K. More, in partial fulfillment for the award of degree Master of Science in Physics, Akkamahadevi Women's University, Vijayapur in the year 2017-18.

N. Srinetha 2/7/18
Co-ordinator

Guided by
Miss: Lakshmi. P. Muragod

Miss
30/6/2018

Examiners

1. 

2.

AKKAMAHADEVI-WOMEN'S UNIVERSITY
VIJAYAPURA



*"SYNTHESIS AND CHARACTERISATION OF POLYANILINE/NICKLE
TITANATE COMPOSITE"*

For the award of the degree of
MASTER OF SCIENCE
IN
PHYSICS
BY

Afrozparveen. A. Kaladgi

Reg.no: PHY16101

Research Guide
MISS.LAKSHMLP.MURGOD
Department of Physics
Vijayapura
2017-2018



**Akkamahadevi Women's University, Vijayapura
Department of Physics**

CERTIFICATE

This is to certify that the dissertation work entitled synthesis and characterization of PANI/NiTiO₃ has been submitted by Afrozparveen. Kaladgi in partial fulfillment of the award of the Master Degree in Physics, Akkamahadevi Women's University, Vijayapura, in the year 2018.

Head of Department
Of Physics

Guidance
Lakshmi. P. Murgod
LM
30/6/2018

EXAMINERS

- AS*
- AS*
6/7/18

N. Shwetha
Co-ordinator
Dept. of Physics
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VILAYAPURA 586102

**AKKAMAHADEVI WOMEN'S UNIVERSITY,
VIJAYAPUR**



**A Project report on
"SYNTHESIS AND CHARACTERIZATION OF
POLYPYRROLE/BaO₂ COMPOSITES"**

**For the award of the degree of
MASTER OF SCIENCE**

**IN
PHYSICS
BY**

Akshata N. Jambagi

Reg. No. PHY16102

Vidyashree A. Koulagi

Reg. No. PHY16146

UNDER THE GUIDANCE OF

Miss. Lakshmi P. Murgod

Department of Physics

Vijayapur-586108

2017-18

AKKAMAHADEVI WOMEN'S UNIVERSITY,
VIJAYAPUR

DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that the project work entitled "SYNTHESIS AND CHARACTERIZATION OF POLYPYRROLE/BaO₂ COMPOSITE" has been submitted by Akshata N. Jambagi (PHY16102) Vidyashree A. Koulagi (PHY16146) in partial fulfillment of the award of the Master Degree in Physics, Akkamahadevi Women's University, Vijayapur, in the year 2018.

N. Shwetha 23/6/18
Co-ordinator

Smt N. Shwetha

Guide

Miss Lakshmi P. Murgod
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Miss Lakshmi P. Murgod

Examiners

1) Shree
23/6/18

2) Shree

Date: 06/7/2018

Place: Vijayapur



AKKAMAHADEVI WOMEN'S UNIVERSITY, VIJAYAPUR

**“Preparation of Langmuir monolayer of
cholesterol”**

**A DISSERTATION SUBMITTED FOR THE PARTIAL
FULFILMENT OF THE REQUIRMENTS OF THE
DEGREE OF**

MASTER OF SCIENCE

IN

PHYSICS

BY

MISS.CHETANA B.AINAPUR	(PHY16110)
MISS.PRIYANKA.BELAWADI	(PHY16126)
MISS.BARKHA BEGUM.ARAKERI	(PHY16109)

Under the guidance of

Miss.GAZALA.AGASBAL

**DEPARTMENT OF PHYSICS AKKAMAHADEVI WOMEN'S
UNIVERSITY**

Vijayapur-586101

2017-2018

AKKAMAHADEVI WOMEN'S UNIVERSITY, VIJAYAPUR

DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that the project work entitled "Preparation Of Langmuir Monolayer Of Cholesterol" is an important work carried by the following students CHETANA B.AINAPUR Reg No. PHY16110, PRIYANKA .BELAWADI Reg No. PHY16126, BARKHA BEGUM .ARAKERI Reg No. PHY16109, Dept. of Physics in partial fulfilment for the award of MASTER OF SCIENCE IN PHYSICS OF THE Akkamahadevi Women's University, Vijayapur during the year 2017-2018. It is certified that all corrections indicated for internal assessment have been incorporated in the Report deposited. The project report has been approved as it satisfied the academic requirements for Master of Science.

N. Shwetha
Mrs.N.SHWETHA

Coordinator

Gazala Agasbal
MISS.GAZALA.AGASBAL

Project Guide

Name of the examiner

Date:

Shwetha
hira
6/2/18



KARNATAKA STATE AKKAMAHADEVI WOMEN'S
KARNATAKA STATE AKKAMAHADEVI WOMEN'S
UNIVERSITY, VIJAYAPURA
SYNTHESIS AND TRANSMITTANCE STUDY OF LEAD
SULPHIDE (PbS) THIN FILMS BY CHEMICAL BATH
DEPOSITION METHOD

For the award of the degree of
MASTER OF SCIENCE
IN
PHYSICS

BY

Basamma Venkatesh	PHY17105
Danamma Khavasi	PHY17108
Kavita Padaganur	PHY17116
Rajeshwari Biradar	PHY17124
Sneha Mudagal	PHY17134

Research Guide

Mr. Mohammedali DKakhandaki
Department of Physics
KARNATAKA STATE AKKAMAHADEVI WOMEN'S
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2018 – 2019



**KARNATAKA STATE AKKAMAHADEVI WOMEN'S
UNIVERSITY, VIJAYAPUR**

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the dissertation entitled "SYNTHESIS AND TRANSMITTANCE STUDY OF LEAD SULPHIDE (PbS) THIN FILMS BY CHEMICAL BATH DEPOSITION METHOD", is an important work carried by the following students, *Miss BASAMMA VENKTESHA, Miss DANAMMA KHAVASI, Miss KAVITA PADAGANUR, Miss RAJESHWARI BIRADAR, Miss SNEHA MUDAGAL* under the guidance of **Mr. Mohammedali DKakhandaki**. Department of Physics in partial fulfilment for the award of **MASTER OF SCIENCE IN PHYSICS** of the **KARNATAKA STATE AKKAMAHADEVI WOMEN'S UNIVERSITY, VIJAYPUR** During the academic year 2018-19. It is certified that all corrections indicated for internal assessment have been incorporated in the report deposited. The project report has been approved as it satisfied the academic requirements for Master of Science.

Guide

Co-ordinator

**Mr. Mohammedali
D Kakhandaki**

Prof. R. Sunandamma

Examiners

- 1.
- 2.

Date:

Place:

Project Report on
**SYNTHESIS OF ZINC SULPHIDE NANOPARTICLES BY
RESIDUAL METHOD USING CHEMICAL BATH DEPOSITION**

A dissertation submitted for the partial fulfilment of the requirements of the degree of
MASTER OF SCIENCE

In

PHYSICS

Submitted by

MISS: DEEPIKA	PHY17110
MISS: FARHANAZ. A. JAMADAR	PHY17113
MISS:POOJA	PHY17121
MISS:RUKHSARSULTANA. N.HALLI.	PHY17127
MISS:TAIZEEN.A.JAMADAR	PHY17136

Under the guidance of
Mrs.GAZALA AGASBAL



Department of Physics

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Jnanashakti Campus, Toravi Vijayapura

2018-19



AKKAMAHADEVI WOMEN'S UNIVERSITY

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the project work entitled "*SYNTHESIS OF ZINC SULPHIDE NANOPARTICLES BY RESIDUAL METHOD USING CHEMICAL BATH DEPOSITION*". Is a bonafide report of the work done by DEEPIKA, FARHANAZ. A. JAMADAR. POOJA, RUKHSARSULTANA. N. HALLI, and TAIZEEN. A. JAMADAR in partial fulfilment of the requirements for the award of the Master of science in physics. Akkamahadevi Women's University, Vijayapura, during the academic year 2018-19.

Guide

Mrs. Gazala agasbal

Head of the Department

Date:

Examiners:

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VIJAYAPUR



A Dissertation Work

**"COCOS NUCIFERA EXTRACT MEDIATED GREEN SYNTHESIS OF
TITANIUM DIOXIDE NANOPARTICLE"**

Submitted in partial fulfilment of the requirements of the award
of the degree of

MASTERS OF SCIENCE IN PHYSICS

BY

A.FREEN FARHA NAIK

PHY17101

FAREEDA MOMIN

PHY17112

FARHAT PARVEEN MUJAWAR

PHY17114

K.HUDEJA BANU SHAIKH

PHY17117

SANA INDIKAR

PHY17128

Under the guidance of

Dr. Vani R. Desai

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2018-2019

AKKAMAHADEVI WOMEN'S UNIVRSITY
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CERTIFICATE

This is to certify that the project work entitled "COCOS NUCIFERA EXTRACT MEDIATED GREEN SYNTHESIS OF TITANIUM DIOXIDE NANOPARTICLE" is an important work carried by the following students AFREEN FARHA NAIK, FAREEDA BANU MOMIN, FARHAT PARVEEN MUJAWAR, KHUDEJA BANU SHAIKH and SANA INDIKAR Dept. of physics in partial fulfilment for the award of MASTER OF SCIENCE IN PHYSICS of the Akkamahadevi women's university vijayapur during the academic year 2018-2019. It is certified that all correction indicated for internal assessment have been incorporated in the report deposited. The project report has been approved as it satisfied the academic requirements for Master of Science.

Chairman
Prof.R. Sunandamma

Desai
21/11/19
Project Guide
Dr. Vani Desai

EXTERNAL VIVA

Name of the examiner

1. *[Signature]*
- 2.

AKKAMAHADEVI WOMEN'S UNIVERSITY

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A Dissertation Work

**"INFLUENCE OF Fe DOPING ON TITANIUM DIOXIDE
NANOPARTICLES ON THEIR STRUCTURAL AND OPTICAL
PROPERTIES"**

Submitted in partial fulfilment of the requirements of the award
of the degree of

MASTERS OF SCIENCE IN PHYSICS

BY

AISHWARYA TAMADADDI	PHY17102
CHAITRA R TORAVI	PHY17107
NAVEENA SHINDE	PHY17119
PALLAVI S KAGGOD	PHY17120
POOJA D SHIVASHARANA	PHY17122

Under the guidance of

Dr. Vani R. Desai
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2018-2019

CERTIFICATE

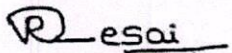
This is to certify that the project work entitled "INFLUENCE OF Fe DOPING ON TITANIUM DIOXIDE NANOPARTICLES ON THEIR STRUCTURAL AND OPTICAL PROPERTIES" is an important work carried by the following students AISHWARYA TAMADADDI, CHAITRA TORAVI, NAVEENA SHINDE, PALLAVI S. KAGGOD and POOJA D. SHIVASHARAN Dept. of physics in partial fulfilment for the award of **MASTER OF SCIENCE IN PHYSICS** of the Akkamahadevi women's university vijayapur during the academic year 2018-2019. It is certified that all correction indicated for internal assessment have been incorporated in the report deposited. The project report has been approved as it satisfied the academic requirements for Master of Science.

Chairman

Prof. R. Sunandamma


Project Guide

Dr. Vani R. Desai


8/7/19

EXTERNAL VIVA

Name of the examiner

1. 
- 2.

AKKAMAHADEVI WOMEN'S UNIVERSITY, VIJAYAPURA



Master of Science in Physics (M.Sc.)

A project Report on

**“Synthesis and Characterisation of Zirconium nanoparticles with
Neem leaves extract and its Antibacterial activity ”**

**A Dissertation in the Partial fulfilment of the requirement for the
award of Master of Science in Physics**

ALLOTTED BY

Sayed Samreen Munshi.

PHY17130

Sarwat Jahan Mangoli.

PHY17129

Yasmeen Hunsiyal.

PHY17138

UNDER THE GUIDANCE OF

Jayashree. Biradar

2018-2019

AKKAMAHADEVI WOMEN'S UNIVERSITY, VIJAYAPUR



DEPARTMENT OF PHYSICS

2018-2019

CERTIFICATE

This is certify that Miss. Sayeda Samreen S Munshi, Sarwat Mangoli, Yasmeeen Hunsiyal, Has satisfactorily completed the project work entitled "Synthesis and Characterisation of Zirconium nanoparticles with Neem leaves extract and its Antibacterial and Antifungal activity" submitted to Department of PHYSICS AKKAMAHADEVI WOMEN'S UNIVERSITY, VIJAYAPUR. For the partial fulfillment of Master degree in Physics during session 2018-2019.

Biradar

GUIDE

Miss. Jayashree. Biradar

CO-ORDINATOR

Proff. R. Sunandamma.

Examiner

1.....*[Signature]*

2.....



**KARNATAKA STATE AKKAMAHADHEVI
WOMEN'S UNIVERSITY, VIJAYAPUR-586108**

**“ELECTRICAL PROPERTIES OF FRUITS :
WILD CUCURBITS - A CASE STUDY”**

**Project report submitted for the award of degree
MASTER OF SCIENCE IN PHYSICS**

SUBMITTED BY

Miss AKSHATA MOHAN BANASODE

PH181002

Miss AISHWARYA

PH181001

RESEARCH GUIDE

DR. SURESH C PATTAR

DEPARTMENT OF PHYSICS

**KARNATAKA STATE AKKAMAHADHEVI
WOMEN'S UNIVERSITY, VIJAYAPUR-586108**

2019 - 2020



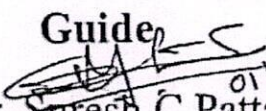
KARNATAKA STATE AKKAMAHADHEVI
WOMEN'S UNIVERSITY, VIJAYAPUR - 586108

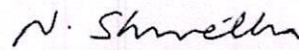
DEPARTMENT OF PHYSICS

CERTIFICATE

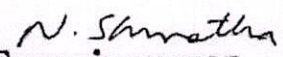
This is to certify that the dissertation entitled "ELECTRICAL PROPERTIES OF FRUITS : WILD CUCURBITS - A CASE STUDY" an important work carried out by the following students, Miss. AKSHATA MOHAN BANASODE, Miss AISHWARYA under the guidance of Dr. Suresh C Pattar, Department of Physics in partial fulfillment for the award of **MASTER OF SCIENCE IN PHYSICS** of the KARNATAKA STATE AKKAMAHADHEVI WOMEN'S UNIVERSITY, VIJAYAPUR During the academic year 2019-2020. It is certified that all corrections indicated for internal assessment have been incorporated in the report deposited.

The report has been approved as it satisfied the academic requirements for **MASTER OF SCIENCE**.

Guide

Dr. Suresh C Pattar
01/10/2020


Co-ordinator FOR
Department of Physics
Karnataka State Akkamahadevi Women's University
Prof. N. Shweta
586108

Place: Vijayapur
Date: 30/09/2020


Examiners TOR
Department of Physics
Date: 30/09/2020
Karnataka State Akkamahadevi Women's University
Vijayapura-586108

Project report on
Synthesis and Characterizations of Prussian Blue
A DISSERTATION SUBMITTED FOR THE PARTIAL FULFILLMENTS OF THE
REQUIREMENTS OF THE DEGREE OF
Master of Science
In
PHYSICS

Submitted by

ANITA BANDRAD	PH181003
ASHWINI HANUMAPPA NAYAKA	PH181004
KAVERI NAVHI	PH181007
MEGHA B KHANAPUR	PH181010
SUPRIYA SANJAY ATANUR	PH181029

Under the guidance of
Ms. Mangala Mantur
Department of Physics
Karnataka State Akkamahadevi Women's University,
Vijayapur-586 101



KARNATAKA STATE AKKAMAHADEVI WOMEN'S UNIVRSITY
Jnanashakti Campus, Torvi, Vijayapur

2019-2020



Karnataka State Akkamahadevi Women's University Vijayapur
Department of Physics

CERTIFICATE

This is to certify that the project work entitled "SYNTHESIS AND CHARACTERIZATIONS OF PRUSSIAN BLUE" has been submitted by the following students ANITA.BANDRAD, ASHWINI. HANUMAPPA. NAYAKA , KAVERI. NAVHI , MEGHA . B. KHANAPUR , SUPRIYA. SANJAY . ATANUR in a partial fulfillment of the requirements for award of MASTER OF SCIENCE in PHYSICS in the department of Physics, Karnataka State Akkamahadevi Women's University, Vijayapura during the academic year 2019-2020.

N. Swetha 01/10/2020
Dr. Swetha
Co-ordinator
Dept. of Physics
Karnataka State Akkamahadevi Women's University
Vijayapur.

M. Mangala Mantur
Ms. Mangala. Mantur
Guide

Examiners :

1. *N. Swetha*

2.

A Project Report On

**“Green Synthesis and IR Spectroscopy of Lanthanum
Doped Zirconium Oxide Nanoparticles”**

A Dissertation submitted for the partial fulfilments of the requirements of the Degree of

Master of Science

in

Physics

Submitted by

Miss. Ayesha Banu Satarekar

(Reg. No. PH181005)

Miss. Shirinfarah Mujawar

(Reg. No. PH181021)

Miss. Sobiya C. Akkalkot

(Reg. No. PH181026)

Miss. Zainab Firdose

(Reg. No. PH181031)

Under the guidance of

Dr. Irfan Ahamed N. Shaikh

Mr. Mohammedali D. Kakhandaki



**Department of Physics
Karanataka State Akkamahadevi Women's University,
Vijayapura
2019-20**



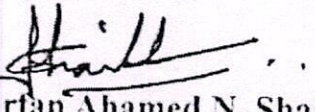
Karnataka State Akkamahadevi Women's University,
Vijayapura

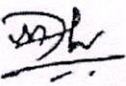
Department of Physics

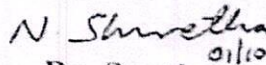
CERTIFICATE

This is to certify that the project work entitled "Green Synthesis and IR Spectroscopy of Lanthanum Doped Zirconium Oxide Nanoparticles" has been submitted by Miss. Ayesha Banu Satarekar, Miss. Shirinfarah Mujawar, Miss. Sobiya C. Akkalkot and Miss. Zainab Firdose in partial fulfillment of the award of the Master Degree in Physics, Karnataka State Akkamahadevi Women's University, Vijayapura, in the year 2020.

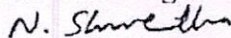
Guided By


Dr. Irfan Ahamed N. Shaikh
Associate Professor & HOD,
Department of Chemistry,
SECAB Institute of Engineering and Technology,
Vijayapura.


Mr. Mohammedali D. Kakhandaki
Faculty, Department of Physics,
Karnataka State Akkamahadevi Women's University,
Vijayapura.


Dr. Swetha
CO-ORDINATOR
Department of Physics
Karnataka State Akkamahadevi Women's University,
Vijayapura-586108

Name and Signature of Examiners:



Project Report on
**Effect of Annealing on Optical Properties of
PbS Thin Films by CBD method**

A dissertation submitted for the partial fulfillment of the requirements of the degree of

**Master of Science
in
Physics**

by

HEENA KAUSAR CHATTARKI (PH181006)

LAYEEBA TURKI (PH181009)

NAZMEEN HACHYAL (PH181011)

SUMAIYA KOLAR (PH181028)

Under the guidance of

Mohammedali D.Kakhandaki



**Dept of Physics
Karnataka State Akkamahadevi Women's University
Jnanashakti Campus, Torvi, Vijayapura**

2019-2020



Karnataka State Akkamahadevi Women's University, Vijayapura
Department of Physies

CERTIFICATE

This is to certify that project entitled *Effect of Annealing on Optical Properties of PbS Thin Films by CBD method* is carried out by **Heena Kausar Chattarki, Layeeba Turki, Nazmeen Haehyal, Sumaiya Kolar** in partial fulfillment of the requirements for award of Master of Science in Physics in the department of Physics, Karnataka State Akkamahadevi Women's University, Vijayapura, during the academic year 2019-2020.

Mohammedali D.Kakhandaki
Guide
Dept. of Physics
Karnataka State Akkamahadevi Women's University
Vijayapura

N. Swetha
01/10/2020

Dr. Swetha
CO-ORDINATOR
Dept. of Physics
Karnataka State Akkamahadevi Women's University
Vijayapura

EXAMINERS

1. *N. Swetha*
- 2.

Project Report on

Synthesis and Characterization of Zirconium Nanoparticles with Millettia Pinnata

A dissertation submitted for the partial fulfillment of the requirements of the degree of

**Master of Science
in
Physics**

by

RAMYA KUNDANGAR (PH181017)

LAXMIMATAKULAKARNI (PH181008)

SHEETALMSAJJAN (PH181020)

SHRUTI B YATAGIR (PH181023)

Under the guidance of

**Dr. Swetha
Co-ordinator**



Dept of Physics

**Karnataka State Akkamahadevi Women's University
Jnanashakti Campus, Torvi, Vijayapura**

2019-2020



Karnataka State Akkamahadevi Women's University, Vijayapura
Department of Physics

CERTIFICATE

This is to certify that project entitled *Synthesis and Characterization of Zirconium Nanoparticles with Millettia Pinnata* is carried out by Ramya Kundanagar, Laxmimata Kulakarni, Sheetal M Sajjan and Shruti B Yatagirin partial fulfillment of the requirements for award of Master of Science in Physics in the department of Physics, Karnataka State Akkamahadevi Women's University, Vijayapura, during the academic year 2019-2020.

N. Swetha
Dr. Swetha
Internal Guide
Dept. of Physics
Karnataka State Akkamahadevi Women's University
Vijayapura

N. Swetha
Coordinator 30/9/2020
CO-ORDINATOR
Department of Physics
Karnataka State Akkamahadevi Women's University
Vijayapura-586108

EXAMINERS

1. *N. Swetha*
- 2.

Project Report on

ORGANIC SEMICONDUCTORS-A REVIEW

A dissertation submitted for the partial fulfillment of the requirements of the degree of

**Master of Science
in
Physics**

By

SHIREEN RAZVI (PH191010)

DANESHWARI SULTANPUR (PH191011)

ASHWINI NAGARAHALLI (PH191008)

Under the guidance of

**Dr.Swetha
Co-Ordinator**



Dept of Physics

Karnataka State Akkamahadevi Women's University

Jnanashakti Campus, Torvi, Vijayapura

2020-2021



Karnataka State Akkamahadevi Women's University, Vijayapura
Department of Physics

CERTIFICATE

This is to certify that project entitled *Organic Semiconductors - A Review* is carried out by Shireen Razvi, Daneshwarl Sultanpur and Ashwini Nagarahalli in partial fulfillment of the requirements for award of Master of Science in Physics in the department of Physics, Karnataka State Akkamahadevi Women's University, Vijayapura, during the academic year 2020-2021.

N. Shrivetha
Dr. Swetha *25/10/2021*
Internal Guide
Dept. of Physics
Karnataka State Akkamahadevi Women's University
Vijayapura

N. Shrivetha
Coordinator
Co-ordinator
Department of Physics
Karnataka State Akkamahadevi Women's University,
VIJAYAPURA.

EXAMINERS

- S. S. Sombal*
25/10/2021
- N. Shrivetha*
25/10/2021

Project Report on

Role of GM Counter in the Survey of Radioactive Particles in Granites

A dissertation submitted for the partial fulfillment of the requirements of the degree of

**Master of Science
In
Physics**

By

AISHWARYA YADAWAD	(PH191002)
ANNAPURNA B KATTI	(PH191006)
ATIKA MULLA	(PH191009)
BIBIAYESHA DHAVALAGI	(PH191010)

Under the guidance of

**Dr. Swetha
Co-Ordinator**



**Dept of Physics
Karnataka State Akkamahadevi Women's University
Jnanashakti Campus, Torvi, Vijayapura**

2020-2021



Karnataka State Akkamahadevi Women's University,
Vijayapura

Department of Physics

CERTIFICATE

This is to certify that project entitle *dRole of GM Counter in the Survey of Radioactive Particles in Granites* is carried out by Aishwarya Yadawad, Annapurna B Katti, Atika Mulla, and Bibiyasha Dhavalagi, in partial fulfillment of the requirements for award of Master of Science in Physics in the department of Physics, Karnataka State Akkamahadevi Women's University, Vijayapura, during the academic year 2020-2021.

N. Shwetha
Dr. Swetha 25/10/2021

Internal Guide

Dept. of Physics

Karnataka State Akkamahadevi Women's

University, Vijayapura

N. Shwetha

Coordinator

Co-ordinator

Department of Physics

Karnataka State Akkamahadevi Women's University,

VIJAYAPURA.

EXAMINERS

1. *S. G. Srinivas* 25/11/21
2. *N. Shwetha* 25/10/2021



KARNATAK STATE AKKAMAHADEVI WOMEN'S
UNIVERSITY, VIJAYAPUR -586108

“DISCOVERING ENVIRONMENTAL RADIOACTIVITY :
USING GRANITES ”

Submitted for the award of the degree
Master of Science In Physics

By

Rajeshwari Kadapatti	PH191014
Sonali Waghamore	PH191024
Sudha Kallennavar	PH191026
Sushma Tonashyal	PH191033
Amrin Akkalkot	PH191004

Research Guide

Dr. Suresh C Pattar

Department of PG Studies in Physics

KARNATAK STATE AKKAMAHADEVI WOMEN'S UNIVERSITY, VIJAYAPUR -586108

2020-2021

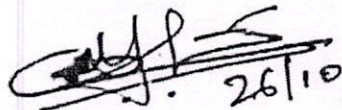


KARNATAK STATE AKKAMAHADEVI WOMEN'S
UNIVERSITY, VIJAYAPUR 586108

DEPARTMENT OF PG STUDIES IN PHYSICS

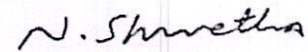
CERTIFICATE

This is to certify that the dissertation entitled study of “**Discovering Environmental Radioactivity : Using Granites**” is an important work carried out by the following students, Miss Rajeshwari Kadapatti, Miss Sonali Waghmore, Miss Sudha Kallennavar, Miss Sushma Tonashyal, Miss Amrin Akkalkot, under the guidance of Dr. Suresh C Pattar Department of PG Studies in Physics in partial fulfillment for the award of MASTER OF SCIENCE IN PHYSICS degree of the KARNATAK STATE AKKAMAHADEVI WOMEN'S UNIVERSITY, Vijayapura during the academic year 2020-2021. The project report has been approved and is the academic requirement for master of science as per rules and regulations of the university.

 26/10/2021

Dr. Suresh C Pattar

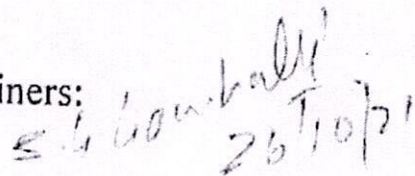
Research Guide

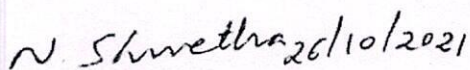


Dr. Shwetha

Co-Ordinator
Department of Physics
Karnataka State Akkamahadevi Women's University
Vijayapura-586108

Examiners:

 26/10/21

 26/10/2021



**KARNATAKA STATE AKKAMAHADEVI WOMEN'S
UNIVERSITY, VIJAYAPUR-586108**

"SPECTROSCOPIC INVESTIGATION OF FRUITS: DRAGON FRUIT"

A Project report submitted for the award of degree

'MASTER OF SCIENCE IN PHYSICS'

SUBMITTED BY

Miss. SUMAN KORTI	PH191029
Miss. MEDHAVI THAKUR	PH191012
Miss. AISHWARYA BIRADAR	PH191001
Miss. SUMAN VASTRAD	PH191028
Miss. VIDYA KOTI	PH191036

RESEARCH GUIDE

DR. SURESH C PATTAR

DEPARTMENT OF PG STUDIES IN PHYSICS

KARNATAKA STATE AKKAMAHADEVI

WOMEN'S UNIVERSITY, VIJAYAPUR-586108

2020 – 2021



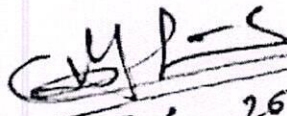
KARNATAKA STATE AKKAMAHADEVI WOMEN'S
UNIVERSITY, VIJAYAPUR

DEPARTMENT OF PG STUDIES IN PHYSICS

CERTIFICATE

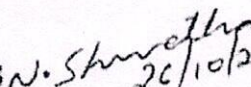
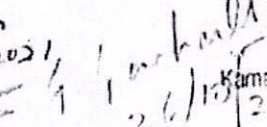
This is to certify that the dissertation entitled "SPECTROSCOPIC INVESTIGATION OF FRUITS: DRAGON FRUIT". An important work carried out by the following students, Miss. SUMAN KORTI, Miss. MEDHAVI THAKUR, Miss. AISHWARYA BIRADAR, Miss. SUMAN VASTRAD and Miss. VIDYA KOTI under the guidance of Dr. SURESH C PATTAR, Department of PG Studies in Physics, in partial fulfilment for the award of MASTER OF SCIENCE IN PHYSICS of the KARNATAKA STATE AKKAMAHADEVI WOMEN'S UNIVERSITY, VIJAYAPUR during the academic year 2020-2021. It is certified that all corrections indicated for internal assessment have been incorporated in the report deposited.

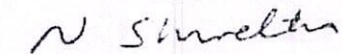
The report has been approved as it satisfied the academic requirements for MASTER OF SCIENCE IN PHYSICS.


26/10/2021
Guide

Dr. Suresh C Pattar

Examiners


26/10/2021

26/10/21


Coordinator

Dr. Swetha

Co-ordinator

Department of Physics

Karnataka State Akkamahadevi Women's University,
VIJAYAPURA.

Date: 26th Oct, 2021.



**KARNATAKA STATE AKKAMAHADEVI WOMEN'S
UNIVERSITY, VIJAYAPUR-586108**

“SPINTRONICS: A REVIEW OF FERROMAGNETIC MATERIALS”

A Project report submitted for the award of degree

‘MASTER OF SCIENCE IN PHYSICS’

SUBMITTED BY

Miss. SANA MEERAJAMADAR

PH191018

Miss. SHEETALAXMI

PH191020

Miss. SUMAYYAKOUSAR MASALI

PH191030

RESEARCH GUIDE

DR. SURESH C PATTAR

DEPARTMENT OF PG STUDIES IN PHYSICS

**KARNATAKA STATE AKKAMAHADEVI WOMEN'S UNIVERSITY,
VIJAYAPUR-586108**

2020 – 2021



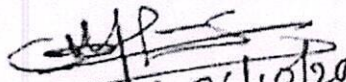
**KARNATAKA STATE AKKAMAHADEVI WOMEN'S
UNIVERSITY, VIJAYAPUR**

DEPARTMENT OF PG STUDIES IN PHYSICS

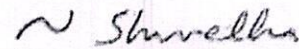
CERTIFICATE

This is to certify that the dissertation entitled "SPINTRONICS: A REVIEW OF FERROMAGNETIC MATERIALS". An important work carried out by the following students, Miss. SANA MEERAJAMADAR, Miss. SHEETALAXMI, Miss. SUMAYYAKOUSAR MASALI, under the guidance of Dr. SURESH C PATTAR, Department of PG Studies in Physics, in partial fulfilment for the award of **MASTER OF SCIENCE IN PHYSICS** of the KARNATAKA STATE AKKAMAHADEVI WOMEN'S UNIVERSITY, VIJAYAPUR during the academic year 2020-2021. It is certified that all corrections indicated for internal assessment have been incorporated in the report deposited.

The report has been approved as it satisfied the academic requirements for **MASTER OF SCIENCE IN PHYSICS**.


Guide 26/10/2021

Dr. Suresh C Pattar


Coordinator

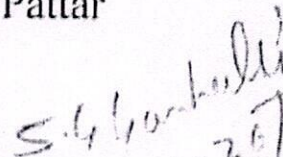
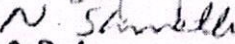
Dr. Swetha

Co-ordinator

Department of Physics

Karnataka State Akkamahadevi Women's University,
VIJAYAPURA.

Examiners


Date: 26th Oct., 2021.  26/10/2021

**KARNATAKA STATE AKKAMAHADEVI WOMEN'S UNIVERSITY,
VIJAYAPURA.**



Department of PG Studies in Physics

A Project Report On

**"Spectral Investigation of Pressmud, a waste of Sugar Industries
On the bank of River Krishna"**

A Dissertation submitted in partial fulfilment of the requirements for the degree,

Master of Science In Physics

By

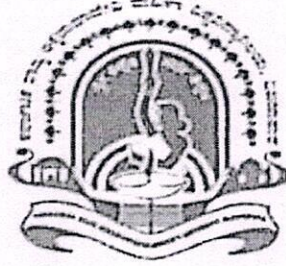
Miss Bhagyashri Holi	PH201009
Miss Parvati Nimbaragi	PH201018
Miss Sahana Naaz Junnedi	PH201028
Miss Savita Kadakol	PH201030
Miss Vandana Daddimani	PH201043

Under the Guidance of

**Dr. Suresh C Pattar
Professor, Department of PG Studies in Physics**

2021-22

KARNATAKA STATE AKKAMAHADEVI WOMEN'S UNIVERSITY,
VIJAYAPURA – 586 108.



Department of Physics

CERTIFICATE

This is to certify that the project work entitled "Spectral Investigation of Pressmud, a waste of Sugar Industries On the bank of River Krishna" is a bonafide report of the work done by Miss Bhagyashri Holi, Miss Parvati Nimbaragi, Miss Sahana Naaz Junnedi, Miss Savita Kadakol and Miss Vandana Daddimani in partial fulfillment of the requirements for the award of the Master of science in Physics, Karnataka State Akkamahadevi Women's University Vijayapura, during the academic year 2021-22.

Dr. Suresh C Pattar
Guide

Dr. Swetha N
Co-ordinator
Department of Physics
Karnataka State Akkamahadevi Women's University,
VIJAYAPURA.

Date:

Examiners:

1. S. G. Gowhalgi
2. N. Swetha
21/10/2022



**KARNATAKA STATE AKKAMAHADEVI WOMEN'S
UNIVERSITY, VIJAYAPUR - 586 108**

**"ELECTRIC TRANSPORT PROPERTIES OF A PRESSMUD
BEYOND JUICE AND ETHANOL"**

Submitted for the award of the degree

Master of Science in PHYSICS

Submitted By

Miss Afreen Mulla	PH201001
Miss Deepa Hugar	PH201010
Miss Gayithri Vijapur	PH201012
Miss Srishti Ammajigol	PH201035
Miss Trupti Dambalkar	PH201040

Research Guide

Dr. Suresh C Pattar

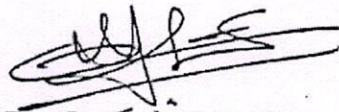
Professor, Department of Physics

**KARNATAKA STATE AKKAMAHADEVI WOMEN'S UNIVERSITY,
Jnanashakti campus, Toravi, Vijayapur - 586 108
2021-2022**

CERTIFICATE

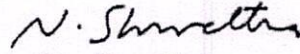
This is to certify that the dissertation entitled "ELECTRIC TRANSPORT PROPERTIES OF A PRESSMUD BEYOND JUICE AND ETHANOL" is carried out by the following students, Afreen Mulla, Deepa Hugar, Gayithri Vijapur, Srishti Ammajgol and Trupti Dambalkar, under the guidance of Dr. Suresh C Pattar Department of PG Studies in Physics in partial fulfillment of the requirement for the award of MASTER OF SCIENCE IN PHYSICS degree of the KARNATAKA STATE AKKAMAHADEVI WOMEN'S UNIVERSITY, VIJAYAPUR during the academic year 2021-2022.

The project report has been approved and is the academic requirement for the degree master of science as per rules and regulations of the university.



Dr. Suresh C Pattar

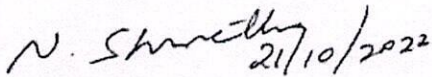
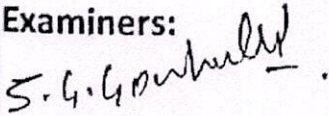
Research Guide



**Dr. Swetha
Co-ordinator**

**Department of Physics
Karnataka State Akkamahadevi Women's University,
VIJAYAPURA.**

Examiners:



21/10/2022

Project Report on

Applications of Artificial Intelligence and Machine Learning in Nuclear Physics – A Review

A dissertation submitted for the partial fulfillment of the requirements of the degree of

**Master of Science
in
Physics**

by

POOJA SARAJE (PH201021)
JAREENABANU KUKNUR (PH201014)
SANAKAUSAR BAGWAN (PH 201029)
FARHANA JAHAGIRDAR (PH 201011)

Under the guidance of

Dr. Swetha
Co-ordinator



Department of Physics
Karnataka State Akkamahadevi Women's University
Jnanashakti Campus, Torvi, Vijayapura

2021-2022



Karnataka State Akkamahadevi Women's University, Vijayapura
Department of Physics

CERTIFICATE

This is to certify that project entitled *Applications of Artificial Intelligence and Machine Learning in Nuclear Physics – A Review* is carried out by Pooja Saraje, Jareenabanu Kuknur, Sanakausar Bagwan and Farhana Jahagirdar in partial fulfillment of the requirements for award of Master of Science in Physics in the department of Physics, Karnataka State Akkamahadevi Women's University, Vijayapura, during the academic year 2021-2022.

N. Swetha

Dr. Swetha

Internal Guide

Dept. of Physics

Karnataka State Akkamahadevi Women's University

Vijayapura

N. Swetha

Coordinator

Department of Physics

Karnataka State Akkamahadevi Women's University,

VIJAYAPURA.

EXAMINERS

1. *S. G. Gowthar*

2. *N. Swetha*
21/10/2022

**INVESTIGATION OF GAMMA RAY
BACKSCATTERING BY MULTILAYER
COMBINATIONS OF ALUMINIUM AND COPPER**

A dissertation submitted for the partial fulfillment of the requirements for the
award of the degree of

Master of Science

in

Physics

By

Aishwarya D.Hunnur	(Reg.No.PH201003)
Roopa S.Nimbargi	(Reg.No.PH201025)
Sadikakhan A.Pathan	(Reg.No.PH201027)
Shruti S.Joshi	(Reg.No.PH201033)
Sudha M.Pattar	(Reg.No.PH201036)

Under the guidance of
Mohammedali D.Kakhandaki



**KARNATAKA STATE AKKAMAHADEVI WOMEN'S UNIVERSITY
VIJAYAPURA**

OCTOBER 2022



Karnataka State Akkamahadevi Women's University,
Vijayapura

Department of Physics

CERTIFICATE

This is to certify that the project work entitled "Investigation Of Gamma Ray Backscattering By Multilayer Combinations Of Aluminium And Copper" has been submitted by Aishwarya D.Hunnur, Roopa S.Nimbargi, Sadikakhan A.Pathan, Shruti S.Joshi, and Sudha M.Pattar. in partial fulfillment of the award of the Master Degree in Physics, Karnataka State Akkamahadevi Women's University, Vijayapura, in the year 2021-22.

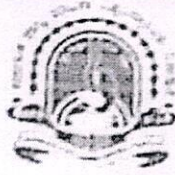
Mohammedali D. Kakhandaki
Guide
Guest Faculty, Department of Physics,
Karnataka State Akkamahadevi Women's University,
Vijayapura.

Dr. Swetha

Project Viva-voce held on 22/10/2022

Name and Signature of Examiners:

- 1)
- 2)
21/10/2022



Karnataka State Akkamahadevi Women's University,
Vijayapura

Department of Physics

CERTIFICATE

This is to certify that the project work entitled "Determining adulterants in milk by calculating attenuation coefficient of Gamma Rays" has been submitted by Aishwarya Yaraddi, Ningamma Hortikar, Rashida Bagawan, Ruksad Khatoun Mallik and Shweta Kalagurki in partial fulfillment of the award of the Master Degree in Physics, Karnataka State Akkamahadevi Women's University, Vijayapura, in the year 2021-22.

Mohammedali D. Kakhandaki
Guide
Department of Physics,
Karnataka State Akkamahadevi Women's University,
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Dr. Swetha
Co-ordinator
Department of Physics
Karnataka State Akkamahadevi Women's University,
VIJAYAPURA.

Project Viva-voce held on 21/10/22

Name and Signature of Examiners:

- 1) S. G. Gowdalu
- 2) N. Swetha 21/10/2022



**KARNATAKA STATE AKKAMAHADEVI WOMEN'S
UNIVERSITY, VIJAYAPURA - 586 108**

**"INVESTIGATION OF RADIOACTIVE PARTICLES IN
PRESSMUD OF THE KRISHNA BASIN SUGAR INDUSTRIES"**

**A Project report
In partial fulfillment of the degree
Master of Science in Physics**

By

Miss Sayeda Asfiya Inamdar	PH201031
Miss Sumayya Awati	PH201037
Miss Taranum Mulla	PH201039
Miss UmmeSalma Totad	PH201041
Miss UzmaKouasr Mulla	PH201042

Research Guide

Dr. Suresh C Pattar

Professor, Department of PG Studies in Physics

**KARNATAKA STATE AKKAMAHADEVI WOMEN'S
UNIVERSITY, VIJAYAPURA - 586 108**

2021-2022



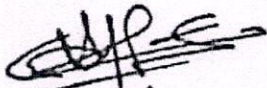
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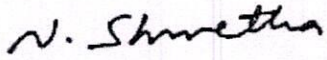
VIJAYAPURA

DEPARTMENT OF PG STUDIES IN PHYSICS

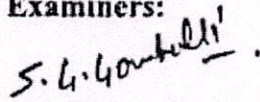
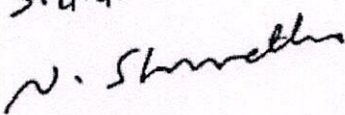
CERTIFICATE

This is certify that the project entitled " Investigation of Radioactive Particles in Pressmud of the Krishna Basin Sugar Industries " is carried out by the following students, Miss Sayeda Asfiya Inamdar, Miss Sumayya Awati, Miss Taranum Mulla, Miss UmmeSalma Totad, and Miss UzmaKousar Mulla, under the guidance of Dr. Suresh C Pattar Department of PG Studies in Physics in partial fulfillment of the requirements for award of MASTER OF SCIENCE IN PHYSICS degree of the KARNATAKA STATE AKKAMAHADEVI WOMEN'S UNIVERSITY, Vijayapura, during the academic year 2021-2022. The project report has been approved and is the academic requirement for Master of Science as per rules and regulations of the university.


Dr. Suresh C Pattar
Research Guide


Dr. Swetha
Co-Ordinator

Examiners:



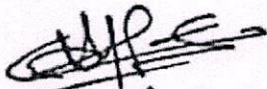
KARNATAKA STATE AKKAMAHADEVI WOMEN'S UNIVERSITY,

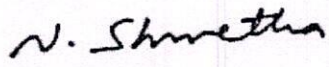
VIJAYAPURA

DEPARTMENT OF PG STUDIES IN PHYSICS

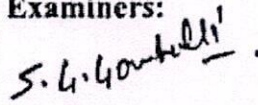
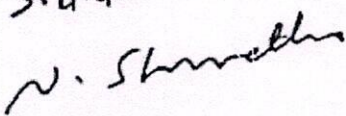
CERTIFICATE

This is certify that the project entitled " **Investigation of Radioactive Particles in Pressmud of the Krishna Basin Sugar Industries** " is carried out by the following students, Miss Sayeda Asfiya Inamdar, Miss Sumayya Awati, Miss Taranum Mulla, Miss UmmeSalma Totad, and Miss UzmaKousar Mulla, under the guidance of **Dr. Suresh C Pattar** Department of PG Studies in Physics in partial fulfillment of the requirements for award of **MASTER OF SCIENCE IN PHYSICS** degree of the **KARNATAKA STATE AKKAMAHADEVI WOMEN'S UNIVERSITY, Vijayapura**, during the academic year 2021-2022. The project report has been approved and is the academic requirement for Master of Science as per rules and regulations of the university.


Dr. Suresh C Pattar
Research Guide


Dr. Swetha
Co-Ordinator

Examiners:

A Project Report On
**“Green Synthesis using Mint leaves and Characterization
of Zirconia (ZrO₂) Nano Particles”**

A dissertation submitted for the partial fulfillment of the requirements of
the degree of

Master of Science in Physics

By

Miss AFREEN SHAIK	(PH201002)
Miss HEENAKOUSAR JAMADAR	(PH201013)
Miss PALLAVI WALIKAR	(PH201017)
Miss PAVITRA	(PH201020)
Miss RESHMA	(PH201024)

Under the guidance of

Dr. Suresh C Pattar

Professor



Dept of physics,

Karnataka State Akkamahadevi women's University

Jnanashakti Campus, Toravi, Vijayapura

2021-2022



Karnataka State Akkamahadevi Women's University,

Vijayapura

Department of Physics

CERTIFICATE

This is to certify that project entitled "Green Synthesis using Mint leaves and Characterization of Zirconia (ZrO_2) Nano Particles" is carried out by Miss Afreen Shaik, Miss HeenaKousar Jamadar, Miss Pavitra, Miss Pallavi Walikar and Miss Reshma, in the partial fulfilment of the requirement for the award of Master of Science In Physics in the department of physics, Karnataka State Akkamahadevi Women's University, Vijayapura, during the academic year 2021-2022.

Dr. Suresh C Pattar

Guide

Dr. Swetha N

**Co-ordinator
Department of Physics**

**Karnataka State Akkamahadevi Women's University,
VIJAYAPURA.**

EXAMINERS

1. S.G. Kumbhalkar
2. N. Swetha
21/10/2022

Project Report on

Synthesis and Characterization of Ferroelectric Ceramics

A dissertation submitted for the partial fulfillment of the requirements of the degree of

**Master of Science
In
Physics**

By

SHAILA PAWAR (PH201032)

PARVEEN NADAF (PH201019)

PREETI JADHAV (PH201022)

BASAMMA CHIKATTI (PH201008)

KRISHNAVENI NIMBAL (PH201015)

Under the guidance of

Dr. SWETHA
Co-Ordinator



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Jnanashakti Campus, Torvi, Vijayapura

2021-2022



Karnataka State Akkamahadevi Women's University, Vijayapura
Department of Physics

CERTIFICATE

This is to certify that project entitled *Synthesis and characterization of ferroelectric ceramics* is carried out by Shaila Pawar, Parveen Nadaf, Preeti Jadhav, Basamma Chikkatti and Krishnaveni Nimbali in partial fulfillment of the requirements for award of Master of Science in Physics in the department of Physics, Karnataka State Akkamahadevi Women's University, Vijayapura, during the academic year 2021-2022.

N. Swetha

Dr. Swetha
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Karnataka State Akkamahadevi Women's University
Vijayapura

N. Swetha

Coordinator

Co-ordinator
Department of Physics
Karnataka State Akkamahadevi Women's University
VIJAYAPURA.

EXAMINERS

1. S. G. Gowdalli

N. Swetha 21/10/2022