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**DEPARTMENT OF PHYSICS
GOVERNMENT COLLEGE KASARAGOD
VIDYANAGAR, KASARAGOD-671123**

**PROJECT REPORT
ON
NUMERICALLY SOLVING SCHRODINGER
EQUATION USING SCILAB**

Project report submitted for the Bachelor of Science in Physics of
Kannur University

Submitted by

NAVANEETH SHETTY B

(GK20CPHR20)

VISMAYA K

(GK20CPHR35)

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BONAFIDE CERTIFICATE

This is to certify that this project report entitled "Numerically solving Schrodinger equation using Scilab" is the bonafide work of **Navaneeth Shetty B**, Reg. No: GK20CPHR20, **Vismaya K**, Reg no: GK20CPHR35, Department of Physics, Government College Kasaragod, who carried out the project work under my supervision

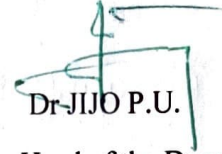


Dr AHMED RIZWAN C.L.

Assistant Professor
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DEPARTEMENT OF PHYSICS
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VIDYANAGAR , KASARAGOD- 671123

**“EXOPLANET DETECTION AND CHARACTERIZATION
USING LIGHTKURVE”**

Project Report Submitted for the Degree of Bachelor of Science in
Physics of Kannur University

SUBMITTED BY :

NANDANA.K

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Dr. JIJO P ULAHANNAN

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DEPARTEMENT OF PHYSICS
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**“EXOPLANET DETECTION AND CHARACTERIZATION
USING LIGHTKURVE”**

Project Report Submitted for the Degree of Bachelor of Science in
Physics of Kannur University

SUBMITTED BY :
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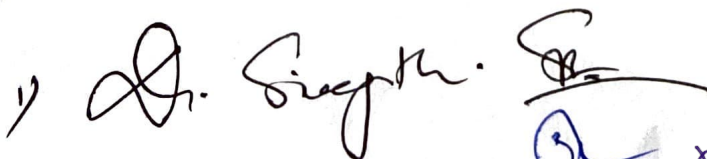
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Dr. JIJO P ULAHANNAN

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PRINCIPAL
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**SYNTHESIS AND CHARACTERIZATION OF NICKEL FERRITE (NiFe_2O_4)
NANOPARTICLES USING SOL-GEL AUTO-COMBUSTION METHOD**

A PROJECT REPORT

Submitted to Kannur University

In partial fulfillment of the award of the degree of

MASTER OF SCIENCE IN PHYSICS

SUBMITTED BY

AKHILA SANEESH

Reg.No:COPSCN1002

UNDER THE GUIDANCE OF

Dr. SUBHA A.

Assistant Professor

Department of Physics,

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BONAFIDE CERTIFICATE

This is to certify that this project report entitled '**SYNTHESIS AND CHARACTERIZATION OF NICKEL FERRITE NANOPARTICLES USING SOL-GEL AUTO-COMBUSTION METHOD**' is the bonafide work of **AKHILA SANEESH**, Reg. No: C0PSCN1002, Department of Physics, Government College, Kasaragod who carried out the project work under my supervision.



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DATE: **22-11-2022**

Submitted at the viva-voce examination held on **22/11/2022**



Examiners

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2.



3



Name and Signature of the Principal
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PRINCIPAL
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**A QUANTITATIVE ANALYSIS OF SEDIMENT SAMPLES FOR THE
INVESTIGATION OF THE PRESENCE OF HEAVY METALS: A CASE STUDY
AT VALAPATTANAM RIVER, KERALA, INDIA**

A PROJECT REPORT

Submitted to Kannur University

in partial fulfillment of the award of the degree of

MASTER OF SCIENCE IN PHYSICS

(Computational & Nanoscience)

SUBMITTED BY

ATHIRA V.

Reg. No.:C0PSCN1004

UNDER THE GUIDANCE OF

Dr. VINEETHKUMAR V.

Assistant Professor

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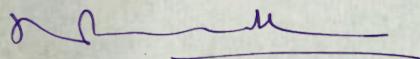


DEPARTMENT OF PHYSICS,

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NOVEMBER, 2022



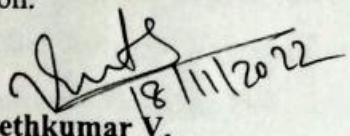


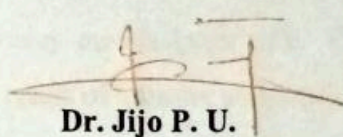
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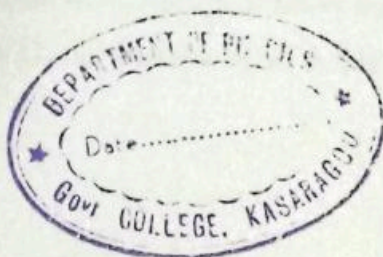
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Dr. Vineethkumar V.
(Project Supervisor)


Dr. Jijo P. U.

Associate Professor & Head
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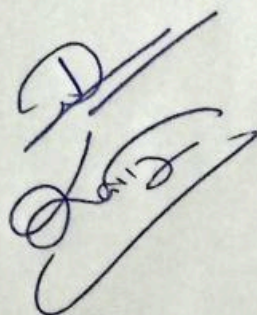
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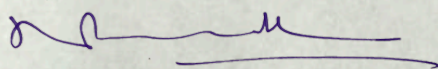
Submitted at viva-voce examination held on/....../2022

Examiners

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Name and Signature of the Principal
Dr. Ananthapadmanabha A.L.

PRINCIPAL
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RATE EQUATION MODELLING OF NON-LINEAR DYNAMICS IN DIRECTLY MODULATED MULTIPLE QUANTUM WELL LASER

Project report submitted to the University of Kannur
In partial fulfillment of the requirements of the Degree of
**Master of Science in Physics with Computational and
Nano Science Program**

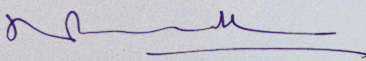
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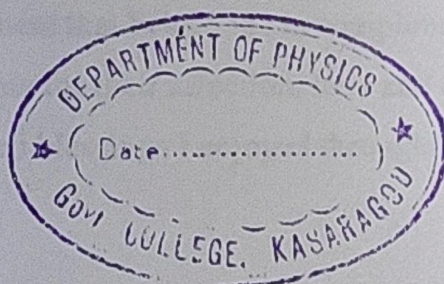
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This is to certify that the dissertation work on “Rate Equation Modelling of Nonlinear Dynamics in Directly Modulated Multiple Quantum Well Laser ” is bonafide piece of project work done by DRISYA P (Reg.No: C0PSCN1005) under the guidance of Dr. Jijo P.U , Government College Kasaragod, in partial fulfillment of the Award of the Degree of Master of Science in Physics with Computational and Nano Science Program the academic year 2020-2022.



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& Head of the Department

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Submitted at the viva-voce examination held on ---/---/2022

Examiners

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Name and Signature of the Principal
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PRINCIPAL
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SYNTHESIS, MAGNETIC STUDIES AND STRUCTURAL CHARACTERIZATION OF NICKEL FERRITE NANOPARTICLES

A PROJECT REPORT

Submitted to Kannur University
in partial fulfillment of the award of the degree of

MASTER OF SCIENCE IN PHYSICS

SUBMITTED BY

KAVYA M V

Reg.No:C0PSCN1006

UNDER THE GUIDANCE OF

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NOVEMBER 2022**



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DECLARATION

I, hereby declare that this dissertation in my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university of other institute of higher learning except where due acknowledgement has been made in the text.

Kasaragod:

Date: 22-11-2022

KAVYA M V

2nd Msc Physics

Government College Kasaragod



Name and Signature of the Principal
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BONAFIDE CERTIFICATE

This is to certify that this project report entitled "SYNTHESIS ,MAGNETIC STUDIES AND STRUCTURAL CHARACTERIZATION OF NICKEL FERRITE NANOPARTICLES " is a bonafide work carried out by **Kavya M.V., Reg.No:C0PSCN1006,** Department of Physics, Government College Kasaragod in partial fulfillment of the requirement for the award of the degree of Master of Science in Physics under my guidance.



(Signature)

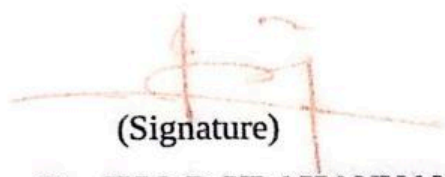
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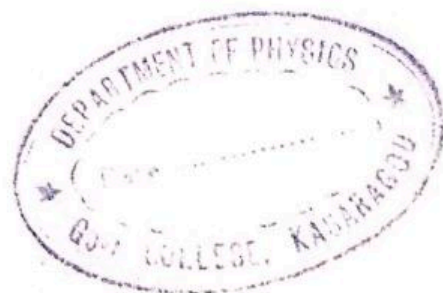
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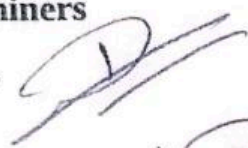
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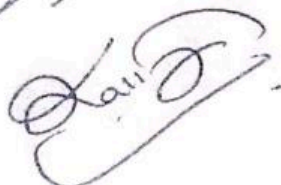
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Examiners

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A STUDY OF THE DYNAMICAL FEATURES OF GRAPHENE USING DENSITY FUNCTIONAL THEORY

*Project report submitted to the University of Kannur
In partial fulfillment of the requirements of the Degree of*

***Master of Science in Physics with Computational and
Nano Science Programme***

**KHADEEJATH NUJAIMA E K
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This is to certify that project entitled “**A STUDY OF THE DYNAMICAL FEATURES OF GRAPHENE USING DENSITY FUNCTIONAL THEORY**” is bonafide piece of project work done by **KHADEEJATH NUJAIMA E K** (Reg.No**C0PSCN1007**) during the period of study 2020-2022 as partial fulfillment of the requirement for the award of degree of **Master of Science in Physics with Computational and Nano Science Programme** under my supervision and guidance.

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Dr. Jijo P.U.

Project Supervisor

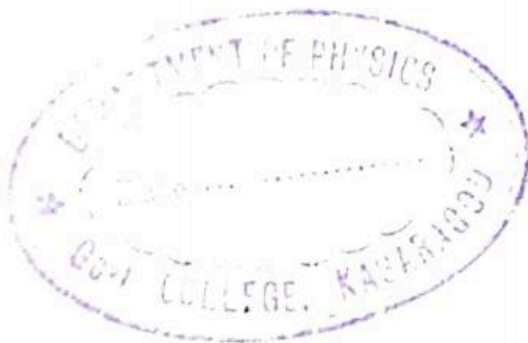
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This is to certify that the dissertation work on **"A STUDY OF DYNAMICAL FEATURES OF GRAPHENE USING DENSITY FUNCTIONAL THEORY"** is bonafide piece of project work done by **KHADEEJATH NUJAIMAE K** (Reg.NoC0PSCN1007) under the guidance of **Dr. Jijo P.U** .. Government College Kasargod, in partial fulfillment of the Award of the **Degree of Master of Science in Physics with Computational and Nano Science Programme** during the academic year 2020-2022.


Dr.Jijo P.U

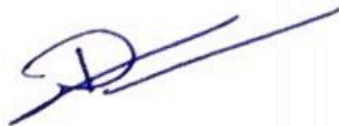
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submitted at the viva-voce examination held on **22/11/2022**

Examiners

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Name and Signature of the Principal
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**PRINCIPAL
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**SYNTHESIS AND STRUCTURAL STUDY OF
NICKEL FERRITE (NiFe_2O_4) NANOPARTICLES
BY SOL-GEL AUTO-COMBUSTION METHOD
A PROJECT REPORT**

Submitted to Kannur University
in partial fulfillment of the award of the degree of

**MASTER OF SCIENCE IN PHYSICS
SUBMITTED BY
NIMISHA K. V.
Reg.No:C0PSCN1008**


UNDER THE GUIDANCE OF
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NOVEMBER, 2022**




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Dr. Ananthapadmanabha A.L.

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BONAFIDE CERTIFICATE

This is to certify that this dissertation titled "SYNTHESIS AND STRUCTURAL STUDY OF NICKEL FERRITE NANOPARTICLES" is a bonafide work carried out by NIMISHA K.V., Reg. No: C0PSCN1008, Department of Physics, Government College, Kasaragod in partial fulfilment of the requirement for the award of the degree of Master of Science in Physics under my guidance.

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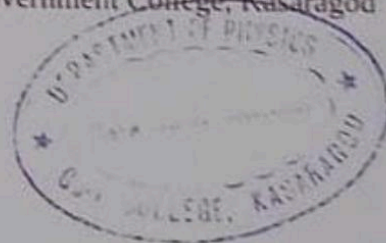
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Dr. JIJO P. ULAHANNAN

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Place: Kasaragod

Date: 22/11/2022

Submitted at the Viva-voce examination held on 22/11/2022

Examiners

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PRINCIPAL
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COEXISTENCE PHASE IN VAN DER WAALS FLUID

PROJECT REPORT

submitted to Kannur University
In practical fulfillment of the requirements for the award of the Degree of

**MASTER OF SCIENCE
IN PHYSICS**

submitted by

NIMISHA M

Reg. No :C0PSCN1009

P.G DEPARTMENT OF PHYSICS
GOVERNMENT COLLEGE ,KASARAGOD
VIDYANAGAR(P.O),KASARAGOD
NOVEMBER 2022



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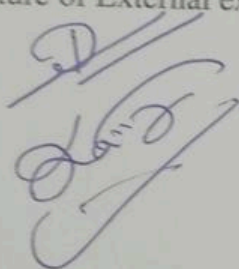
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Dr. Jijo P. U

Head of the Department
Government college, Kasaragod

Signature of External examiners:

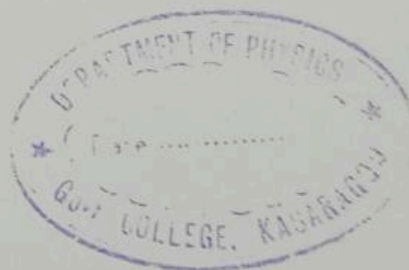
- 1.
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Name and Signature of the Principal
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**DEPARTMENT OF PHYSICS
GOVERNMENT COLLEGE KASARAGOD
VIDYANAGAR, KASARAGOD-671123**

**PROJECT REPORT
ON
SWALLOW TAIL BEHAVIOUR OF
GIBBS FREE ENERGY**

Project report submitted for the Master of science in physics of
Kannur University

Submitted by

**PRITHVI P B
(C0PSCN1010)**

Name and Signature of the Principal
Dr. Ananthapadmanabha.A.L



**PRINCIPAL
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KASARAGOD**

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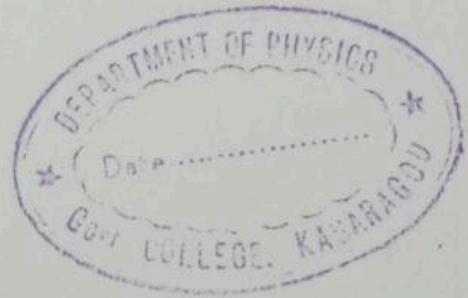
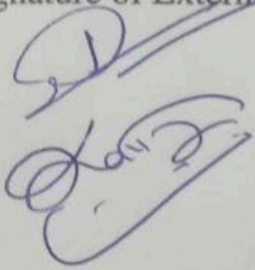
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Dr. Jijo P. U

Head of the Department
Government college, Kasaragod

Signature of External examiners:

- 1.
- 2.



Name and Signature of the Principal
Dr. Ananthapadmanabha.A.L.



PRINCIPAL
GOVERNMENT COLLEGE
KASARAGOD

**ANALYSIS OF HEAVY METAL DISTRIBUTION AND
PHYSICO-CHEMICAL PARAMETERS IN GROUNDWATER
SOURCES OF PAYYANUR MUNICIPALITY,
KANNUR DISTRICT, KERALA**

A PROJECT REPORT

Submitted to Kannur University

in partial fulfillment of the award of the degree of

MASTER OF SCIENCE IN PHYSICS

(Computational & Nanoscience)

SUBMITTED BY

SAPNA K. V.

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UNDER THE GUIDANCE OF

Dr. VINEETHKUMAR V.

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Government College Kasaragod



Name and Signature of the Principal
Dr. Ananthapadmanabha.A.L

**PRINCIPAL
GOVERNMENT COLLEGE
KASARAGOD**



**DEPARTMENT OF PHYSICS,
GOVERNMENT COLLEGE KASARAGOD, VIDYANAGAR**

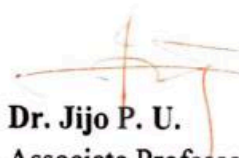
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BONAFIDE CERTIFICATE

This is to certify that this project report entitled 'ANALYSIS OF HEAVY METAL DISTRIBUTION AND PHYSICO-CHEMICAL PARAMETERS IN GROUNDWATER SOURCES OF PAYYANUR MUNICIPALITY, KANNUR DISTRICT, KERALA' is the bonafide work of **SAPNA K. V., Reg. No: C0PSCN1011,** Department of Physics, Government College Kasaragod who carried out the project work under my supervision.


18/11/2022

Dr. Vineethkumar V.
(Project Supervisor)



Dr. Jijo P. U.
Associate Professor & Head
Department of Physics
Government College Kasaragod

Kasaragod

18.11.2022



Submitted at viva-voce examination held on/....../2022

Examiners

1.



2.





Name and Signature of the Principal
Dr. Ananthapadmanabha A.I.





PREPARATION AND CHARACTERIZATION OF NICKEL FERRITE NANOPARTICLES USING SOL-GEL AUTO-COMBUSTION METHOD

PROJECT REPORT

Submitted to Kannur University

In partial fulfilment of the award of the degree of

MASTER OF SCIENCE IN PHYSICS

SUBMITTED BY

SREYA K.

Reg.No:C0PSCN1012

UNDER THE GUIDANCE OF

Dr. SUBHA A.

Assistant Professor

Department of physics,

Government College Kasaragod



**DEPARTMENT OF PHYSICS,
GOVERNMENT COLLEGE, KASARAGOD**

NOVEMBER, 2022

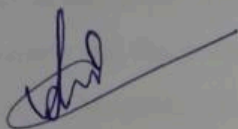

Name and Signature of the Principal
Dr. Ananthapadmanabha.A.L

**PRINCIPAL
GOVERNMENT COLLEGE
KASARAGOD**



BONAFIDE CERTIFICATE

This is to certify that this dissertation titled "**PREPARATION AND CHARACTERIZATION OF NICKEL FERRITE NANOPARTICLES USING SOL-GEL AUTO-COMBUSTION METHOD**" is a bonfide work carried out by **SREYA K., Reg. No: C0PSCN1012**, Department of Physics, Government College, Kasaragod in partial fulfilment of the requirement for the award of the degree of Master of Science in physics under my guidance.



(Signature)

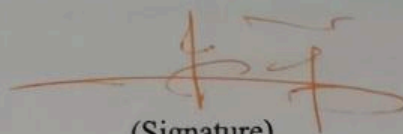
Project Supervisor

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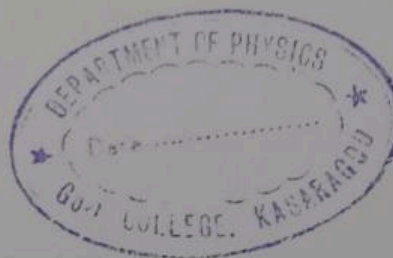
Associate Professor

Department of Physics,

Government College Kasaragod

Place: Kasaragod

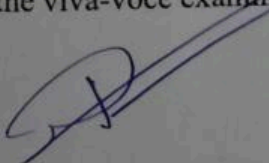
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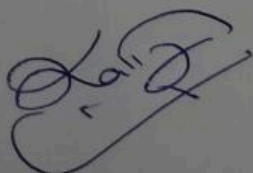
Submitted at the viva-voce examination held on 22/11/2022

Examiners

1.



2.



Name and Signature of the Principal
Dr. Ananthapadmanabha.A.L



PRINCIPAL
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KASARAGOD

**ASSESSMENT OF EXCESS LIFETIME CANCER RISK DUE TO
NATURAL RADIOACTIVITY IN THE COASTAL ENVIRONMENT
OF AZHITHALA, KASARAGOD DISTRICT, KERALA**

A PROJECT REPORT

Submitted to Kannur University

in partial fulfillment of the award of the degree of

MASTER OF SCIENCE IN PHYSICS

(Computational & Nanoscience)

SUBMITTED BY

ROHITH K.

Reg. No.:C0PSCN1001

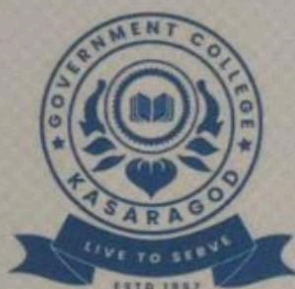
UNDER THE GUIDANCE OF

Dr. VINEETHKUMAR V.

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DEPARTMENT OF PHYSICS,

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NOVEMBER, 2022



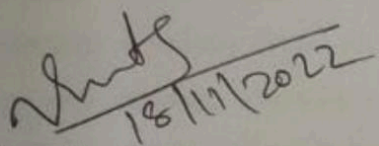


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Dr. Ananthapadmanabha.A.L

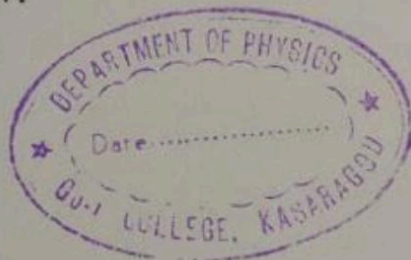
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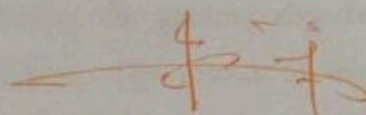
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18/11/2022

Dr. Vineethkumar V.
(Project Supervisor)



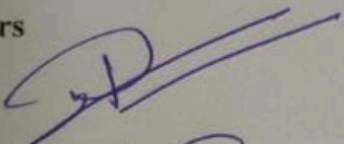
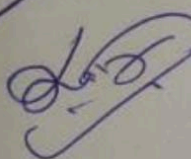
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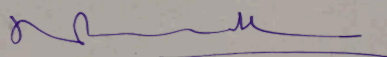
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