

VARIATION OF AIRGLOW AT DIFFERENT GALACTIC LATITUDES

Project report submitted to

MAHATMA GANDHI UNIVERSITY

in partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE IN PHYSICS

Submitted by

AKSHAYA T T

Reg.No.200011012992

Under the Guidance of

Ms. NIMMI NARAYANAN



POST GRADUATE DEPARTMENT OF PHYSICS

SREE SANKARA COLLEGE, KALADY

2022



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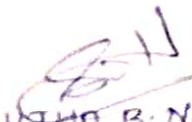
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This is to certify that the dissertation entitled "VARIATION OF AIRGLOW AT DIFFERENT GALACTIC LATITUDES" submitted to Mahatma Gandhi University in the partial fulfillment of the requirement for the award of the degree of MASTER OF SCIENCE IN PHYSICS, is a record of original work done by AKSHAYA T T under the guidance of Ms. NIMMI NARAYANAN, Assistant Professor, Sree Sankara College, Kalady during the academic year 2020-2022.

External Examiner 1.


Dr. SRINIVAS B. NAIR

2.


Prof. BEN JOS

Head of the Department





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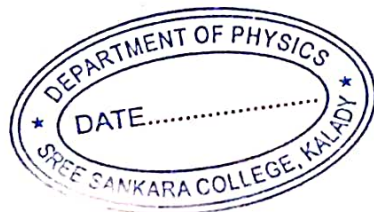
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Kalady

September 2022



NIMMI NARAYANAN

Assistant Professor

Sree Sankara College, Kalady

**COMPARISON OF OPTICAL AND STRUCTURAL PROPERTIES OF
ANNEALED AND UNANNEALED ALUMINIUM DOPED ZINC OXIDE
THIN FILMS BY POWER VARYING RF MAGNETRON SPUTTERING**

Project report submitted to Mahatma Gandhi University in partial fulfilment of the
requirement for Master Degree of Science in Physics

By
ANUMOL. V .JOY
Reg. No. 200011012994

Under the supervision of
Smt. Priya S S
Assistant Professor

**POST GRADUATE DEPARTMENT OF PHYSICS
SREE SANKARA COLLEGE, KALADY
2022**





SREE SANKARA COLLEGE, KALADY
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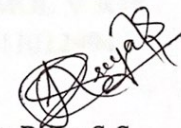
This is to certify that the project work entitled “COMPARISON OF OPTICAL AND STRUCTURAL PROPERTIES OF ANNEALED AND UNANNEALED ALUMINIUM DOPED ZINC OXIDE THIN FILMS BY POWER VARYING RF MAGNETRON SPUTTERING” is a genuine work of ANUMOL V JOY, Reg No:200011012994 carried out at the Post Graduate Department of Physics, Sree Sankara College, Kalady , in partial fulfilment for the award of Master of Science in Physics from MG University, Kottayam during the year 2020-2022 under my guidance and supervision and the work reported here in does not form part of any other thesis of dissertation .


Prof. Ben Jos

Head of the department of Physics
Guide

External Examiners

I. Dr. Manjith 
II. ..


Smt. Priya S S
Supervising



**INFLUENCE OF Zn DOPING ON THE MATERIAL PROPERTIES OF
TiO₂
NANOTUBES**

PROJECT REPORT

Submitted to

MAHATMA GANDHI UNIVERSITY

**In partial fulfilment of the requirement for the degree of
MASTER OF SCIENCE IN PHYSICS**

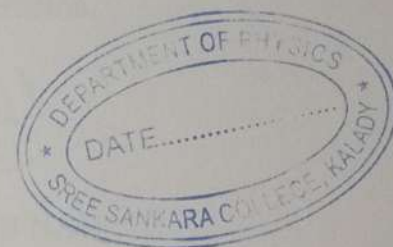
Submitted by

ASWANI C T

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POST GRADUATE DEPARTMENT OF PHYSICS

SREE SANKARA COLLEGE, KALADY

2022

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This is to certify that the project work entitled "INFLUENCE OF Zn DOPPING ON THE MATERIAL PROPERTIES OF TiO₂ NANOTUBES" is a bonafide work of ASWANI C T, Reg No:200011012995 carried out at the Post Graduate Department of Physics, Sree Sankara College, Kalady, in partial fulfilment for the award of Master of Science in Physics from MG University, Kottayam during the year 2020-2022 under my guidance and supervision and the work reported here in does not form part of any other thesis or dissertation.


Prof. BEN JOSE

Head of the department of Physics
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Dr SINITHA B NAIR

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MODELING OF AIR GLOW AS A FUNCTION OF SOLAR ACTIVITY

Project report submitted to

MAHATMA GANDHI UNIVERSITY

in partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE IN PHYSICS

Submitted by

CHRISTY DEVASSYKUTTY

Reg.No.200011012996

Under the Guidance of

Ms. NIMMI NARAYANAN



POST GRADUATE DEPARTMENT OF PHYSICS

SREE SANKARA COLLEGE, KALADY

2022



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CERTIFICATE

This is to certify that the dissertation entitled "MODELLING OF AIRGLOW AS A FUNCTION OF SOLAR ACTIVITY" submitted to Mahatma Gandhi University in the partial fulfillment of the requirement for the award of the degree of MASTER OF SCIENCE IN PHYSICS is a record of original work done by CHRISTY DEVASSYKUTTY under the guidance of Ms. NIMMI NARAYANAN. Assistant Professor, Sree Sankara College, Kalady during the academic year 2020-2022.

External Examiner 1.


Prof. BEN JOS

2.

Head of the Department



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Kalady

September 2020

NIMMI NARAYAN

Assistant Professor

Department of Physics

Sree Sankara College, Kalady



**OPTICAL, STRUCTURAL AND ELECTRICAL PROPERTIES
OF RF-SPUTTERED ZnO THIN FILMS**

PROJECT REPORT

Submitted to

MAHATMA GANDHI UNIVERSITY

In partial fulfilment of the requirement for the degree of

MASTER OF SCIENCE IN PHYSICS

Submitted by

DEVIKA DASAN

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Under the supervision of

Dr. MANJU T



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SREE SANKARA COLLEGE, KALADY, 2022

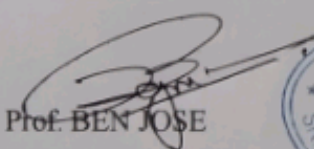
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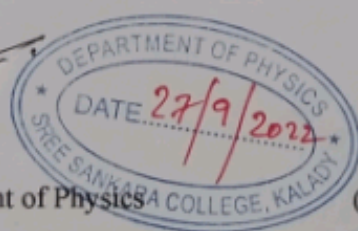



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This is to certify that the project work entitled "OPTICAL, STRUCTURAL AND ELECTRICAL PROPERTIES OF RF-SPUTTERED ZnO THIN FILMS" is a bonafide work of DEVIKA DASAN, Reg No:200011012997 carried out at the Post Graduate Department of Physics, Sree Sankara College, Kalady, in partial fulfilment for the award of Master of Science in Physics from MG University, Kottayam during the year 2020-2022 under my guidance and supervision and the work reported here in does not form part of any other thesis of dissertation.


Prof. BEN JOSE




Dr MANJU T
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Head of the department of Physics

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Sree Sankara College Kalady

External Examiners

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II. Priya S.S.



**SYNTHESIS AND THERMAL DIFFUSIVITY STUDY OF
GRAPHENE QUANTUM DOTS BY VARYING VISCOSITY**

Dissertation submitted to Mahatma Gandhi University for the partial fulfilment
of the requirement for the award of the degree of

MASTER OF SCIENCE IN PHYSICS

By

FOUSIA M A

Reg. No: 200011012998

Year: 2020-2022

Under the guidance of

Dr. M KAILASNATH



**INTERNATIONAL SCHOOL OF PHOTONICS
COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
KOCHI 680 022**



**Department of Physics
SREE SANKARA COLLEGE, KALADY
2020-2022**

Valmiki
29/09/2022
[Signature]
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Date.....

CERTIFICATE

This is to certify that the M.Sc. project entitled “**Synthesis and thermal diffusivity study of Graphene quantum dots by varying viscosity**” is the work done by **Ms.Fousia M A, Reg. No. 200011012998** at International School of Photonics, Cochin University of Science and Technology, under my guidance in partial fulfillment of the requirements of the degree of Master of Science in Physics from Mahatma Gandhi University, Kottayam during the year 2020-2022.

Project supervisor

Dr. M. Kailasnath

Professor

International School of Photonics, CUSAT

Dr. M. Kailasnath
Professor
International School of Photonics
Cochin University of Science and Technology
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CERTIFICATE

This is to certify that the project work entitled “SYNTHESIS AND THERMAL DIFFUSIVITY STUDY OF GRAPHENE QUANTUM DOTS BY VARYING VISCOSITY” is a bonafide work of FOUSIA M A carried out at the International school of Photonics, CUSAT, in partial fulfilment for the award of Master of Science in Physics from MG University, Kottayam during the year 2020-2022 under my guidance and supervision.

Place: Kalady.

Date: 29/09/2022



Head of the Department

Prof. BEN JOSE

Sree Sankara College, Kalady

**INFLUENCE OF Zn DOPING ON THE MATERIAL PROPERTIES OF
TiO₂**

NANOTUBES

PROJECT REPORT

Submitted to

MAHATMA GANDHI UNIVERSITY

In partial fulfilment of the requirement for the degree of

MASTER OF SCIENCE IN PHYSICS

Submitted by

GOPIKA KRISHNAN

200011012999

Under the supervision of

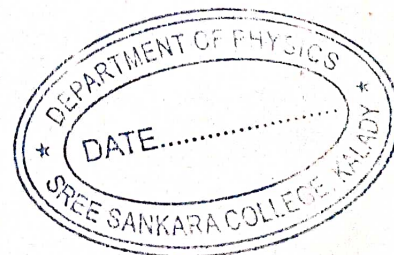
Dr. SINITHA B NAIR



POST GRADUATE DEPARTMENT OF PHYSICS

SREE SANKARA COLLEGE, KALADY

2022



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SREE SANKARA COLLEGE, KALADY



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Prof. BEN JOSE

Head of the department of Physics

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Dr SINITHA B NAIR

(Supervising Guide)

Asst. Professor, Dept of Physics

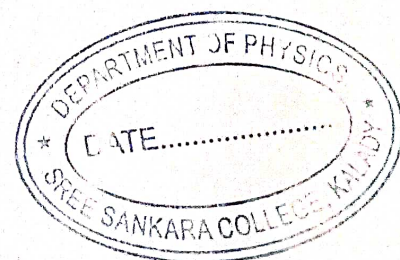
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External Examiners

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II.



**OPTICAL, STRUCTURAL AND ELECTRICAL PROPERTIES
OF RF-SPUTTERED ZnO THIN FILMS**

PROJECT REPORT

Submitted to

MAHATMA GANDHI UNIVERSITY

In partial fulfilment of the requirement for the degree of

MASTER OF SCIENCE IN PHYSICS

Submitted by

KEERTHANA C.S

200011013000

Under the supervision of

Dr. MANJU T



POST GRADUATE DEPARTMENT OF PHYSICS

SREE SANKARA COLLEGE, KALADY, 2022

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Prof. BEN JOSE



Head of the department of Physics

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Dr MANJU T


(Supervising Guide)

Asst. Professor, Dept of Physics

Sree Sankara College Kalady

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**SYNTHESIS AND THERMAL DIFFUSIVITY STUDY OF
GRAPHENE QUANTUM DOTS BY VARYING
CONCENTRATION**

Dissertation submitted to Mahatma Gandhi University for the partial
fulfilment of the requirement for the award of the degree of

MASTER OF SCIENCE IN PHYSICS

By

LAKSHMI P R

Reg. No: 200011013002

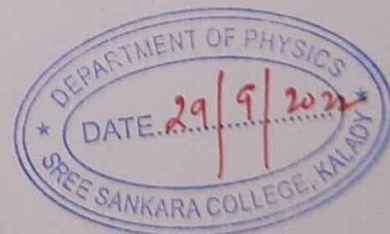
Year: 2020-2022

Under the guidance of

Dr. M KAILASNATH



**INTERNATIONAL SCHOOL OF PHOTONICS
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KOCHI 680 022**



**Department of Physics
SREE SANKARA COLLEGE, KALADY**

2020-2022

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CERTIFICATE

This is to certify that the M.Sc. project entitled “**Synthesis and thermal diffusivity study of Graphene quantum dots by varying concentration**” is the work done by **Ms. Lakshmi P R, Reg. No. 200011013002** at International School of Photonics, Cochin University of Science and Technology, under my guidance in partial fulfillment of the requirements of the degree of Master of Science in Physics from Mahatma Gandhi University, Kottayam during the year 2020-2022.

Project supervisor

Dr. M. Kailasnath

Professor

International School of Photonics, CUSAT


Dr. M. Kailasnath
Professor
International School of Photonics
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Kochi - 682 022

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This is to certify that the project work entitled “**SYNTHESIS AND THERMAL DIFFUSIVITY STUDY OF GRAPHENE QUANTUM DOTS BY VARYING CONCENTRATION**” is a bonafide work of **LAKSHMI P R** carried out at the International School of Photonics, CUSAT, in partial fulfilment for the award of Master of Science in Physics from MG University, Kottayam during the year 2020-2022 under my guidance and supervision.

Place: Kalady

Date: 29/09/22



Prof. BEN JOSE

Head of the Department

Sree Sankara College, Kalady

MODELING OF AIR GLOW AS A FUNCTION OF SOLAR ACTIVITY

Project report submitted to

MAHATMA GANDHI UNIVERSITY

in partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE IN PHYSICS

Submitted by

LIYA JACOB

Reg.No.200011013003

Under the Guidance of

Ms. NIMMI NARAYANAN



POST GRADUATE DEPARTMENT OF PHYSICS

SREE SANKARA COLLEGE, KALADY

2022



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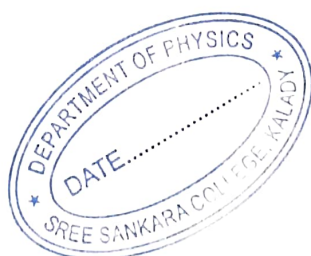
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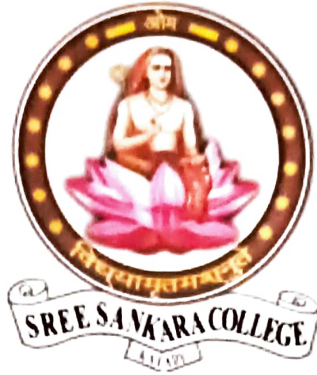
External Examiner 1.


Prof. BEN JOS

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Head of the Department





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Kalady

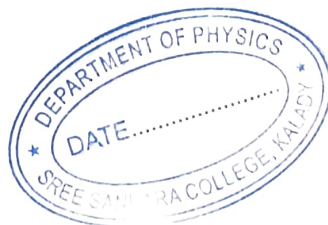
September 2020

NIMMI NARAYAN

Assistant Professor

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**OPTICAL, STRUCTURAL AND ELECTRICAL
PROPERTIES OF ALUMINIUM DOPED ZnO THIN FILM**

PROJECT REPORT

Submitted to

MAHATMA GANDHI UNIVERSITY

In partial fulfilment of the requirement for the degree of

MASTER OF SCIENCE IN PHYSICS

By

MERIN BENNY

200011013005

Under the supervision of

Dr. MANJU T



POST GRADUATE DEPARTMENT OF PHYSICS

SREE SANKARA COLLEGE, KALADY

2022

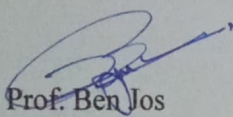
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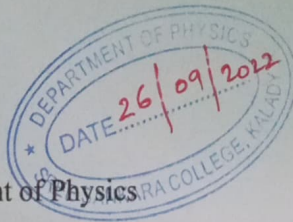
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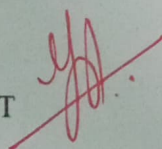
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Prof. Ben Jos

Head of the Department of Physics

Sree Sankara College, Kalady



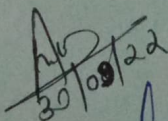
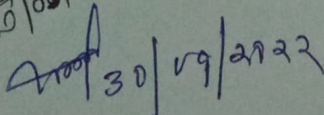

Dr. Manju. T

(Supervising Guide)

Asst. Professor, Dept. of Physics

Sree Sankara College, Kalady

External Examiners

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30/09/22
- II. 
30/09/2022

**SYNTHESIS AND THERMAL DIFFUSIVITY STUDY OF
GRAPHENE QUANTUM DOTS BY VARYING VISCOSITY**

Dissertation submitted to Mahatma Gandhi University for the partial fulfilment
of the requirement for the award of the degree of

MASTER OF SCIENCE IN PHYSICS

By

SREELAKSHMI SATHEESAN

Reg. No: 200011013007

Year: 2020-2022

Under the guidance of

Dr. M KAILASNATH



**INTERNATIONAL SCHOOL OF PHOTONICS
COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
KOCHI 680 022**



**Department of Physics
SREE SANKARA COLLEGE, KALADY
2020-2022**

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This is to certify that the M.Sc. project entitled "Synthesis and thermal diffusivity study of Graphene quantum dots by varying viscosity" is the work done by Ms.Sreelakshmi Satheesan, Reg. No. 200011013007 at International School of Photonics, Cochin University of Science and Technology, under my guidance in partial fulfillment of the requirements of the degree of Master of Science in Physics from Mahatma Gandhi University, Kottayam during the year 2020-2022.

Project supervisor

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Dr. M. Kallanurath
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**EFFECT OF Cu DOPPING ON THE MATERIAL
PROPERTIES OF TiO₂ NANOTUBES**

PROJECT REPORT

Submitted to

MAHATMA GANDHI UNIVERSITY

In partial fulfilment of the requirement for the degree of

MASTER OF SCIENCE IN PHYSICS

Submitted by

SURYA P S

200011013008

Under the supervision of

Dr. SINITHA B NAIR



POST GRADUATE DEPARTMENT OF PHYSICS

SREE SANKARA COLLEGE, KALADY

2022

SREE SANKARA COLLEGE, KALADY



DEPARTMENT OF PHYSICS

CERTIFICATE

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Prof. BEN JOSE

Head of the department of Physics

Sree Sankara College Kalady

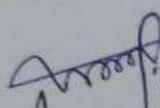
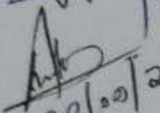
Dr SINITHA B NAIR

Supervising Guide)

Asst.Professor, Dept of Physics

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External Examiners

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- II.  30/09/22



**OPTICAL, STRUCTURAL AND ELECTRICAL PROPERTIES
OF RF-SPUTTERED ALUMINIUM DOPED ZnO THIN
FILMS**

Project Report submitted to

MAHATMA GANDHI UNIVERSITY

In partial fulfilment of the requirement for the degree of

MASTER OF SCIENCE IN PHYSICS

By

SURYAPRABHA MR

200011013009

Under the supervision of

Dr. MANJU T



POST GRADUATE DEPARTMENT OF PHYSICS

SREE SANKARA COLLEGE, KALADY

2022

SREE SANKARA COLLEGE, KALADY



POST GRADUATE DEPARTMENT OF PHYSICS

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Prof. Ben Jos

Head of the department of Physics

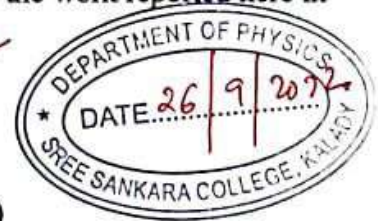
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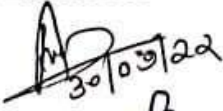
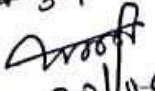
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**EFFECT OF Cu DOPPING ON THE MATERIAL
PROPERTIES OF TiO₂ NANOTUBES**

PROJECT REPORT

Submitted to

MAHATMA GANDHI UNIVERSITY

In partial fulfilment of the requirement for the degree of

MASTER OF SCIENCE IN PHYSICS

Submitted by

VARNANA WILSON

200011013010

Under the supervision of

Dr. SINITHA B NAIR



POST GRADUATE DEPARTMENT OF PHYSICS

SREE SANKARA COLLEGE, KALADY

2022

SREE SANKARA COLLEGE, KALADY



DEPARTMENT OF PHYSICS

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Prof. BEN JOSE

Head of the department of Physics

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Dr SINITHA B NAIR

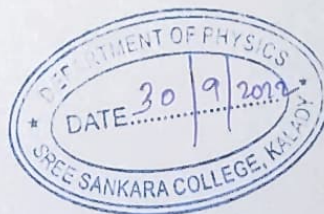
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- II. 30/09/22



**COMPARISON OF OPTICAL AND STRUCTURAL PROPERTIES OF
ANNEALED AND UNANNEALED ALUMINIUM DOPED ZINC OXIDE
THIN FILMS BY TIME VARYING RF MAGNETRON SPUTTERING**

Project report submitted to Mahatma Gandhi University in partial fulfilment of the
requirement for Master Degree of Science in Physics

By
MEGHA K. R
Reg. No. 200011013004

Under the supervision of
Smt. Priya S S
Assistant Professor

**POST GRADUATE DEPARTMENT OF PHYSICS
SREE SANKARA COLLEGE, KALADY
2022**





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This is to certify that the project work entitled “COMPARISON OF OPTICAL AND STRUCTURAL PROPERTIES OF ANNEALED AND UNANNEALED ALUMINIUM DOPED ZINC OXIDE THIN FILMS BY TIME VARYING RF MAGNETRON SPUTTERING” is a genuine work of **MEGHA .K.R** ,Reg No:**200011013004** carried out at the Post Graduate Department of Physics, Sree Sankara College, Kalady , in partial fulfilment for the award of Master of Science in Physics from MG University, Kottayam during the year 2020-2022 under my guidance and supervision and the work reported here in does not form part of any other thesis of dissertation .



Prof. Ben Jos

Head of the department of Physics
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External Examiners

- I. *Dr. Manjiv T.* 
- II.



Smt. Priya S S

Supervising



**SYNTHESIS AND THERMAL DIFFUSIVITY STUDY OF
GRAPHENE QUANTUM DOTS BY VARYING
CONCENTRATION**

*Dissertation submitted to Mahatma Gandhi University for the partial
fulfilment of the requirement for the award of the degree of*

MASTER OF SCIENCE IN PHYSICS

By

ANUMOL

Reg. No:200011012993

Year: 2020-2022

Under the guidance of

Dr. M KAILASNATH



**INTERNATIONAL SCHOOL OF PHOTONICS
COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
KOCHI 680 022**



**Department of Physics
SREE SANKARA COLLEGE, KALADY
2020-2022**

INTERNATIONAL SCHOOL OF PHOTONICS
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Kerala, India
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0484-2862410, 2862411

Date.....

CERTIFICATE

This is to certify that the M.Sc. project entitled "**Synthesis and thermal diffusivity study of Graphene quantum dots by varying concentration**" is the work done by **Ms.Anamol**, Reg. No. **200011012993** at International School of Photonics, Cochin University of Science and Technology, under my guidance in partial fulfillment of the requirements of the degree of Master of Science in Physics from Mahatma Gandhi University, Kottayam during the year 2020-2022.

Project supervisor

Dr. M. Kailasnath

Professor

International School of Photonics, CUSAT

Dr. M. Kailasnath
Professor
International School of Photonics
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This is to certify that the project work entitled "SYNTHESIS AND THERMAL DIFFUSIVITY STUDY OF GRAPHENE QUANTUM DOTS BY VARYING CONCENTRATION" is a bonafide work of ANUMOL carried out at the International School of Photonics, CUSAT, in partial fulfilment for the award of Master of Science in Physics from MG University, Kottayam during the year 2020-2022 under my guidance and supervision.

Place: Kalady

Date: 29/9/2022




Prof. BEN JOSE

Head of the Department

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Examiner: Dr. SINTHA B. NAIR 



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Dr. Minimol K. C.

Course Coordinator



Dr. Preethi Nair

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This is to certify that **AKSHAY SIVAN**, Adm. No. E8369, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **ARJUNAN C R**, Adm. No. E8456, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **CHYTHANNYA MURALEEDHARAN**, Adm. No. E8370, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **FELIX VADAKKUMCHERY**, Adm. No. E8074,
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This is to certify that **KRISHNA VIJAYAN**, Adm. No. E8017, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **MALAVIKA PRABHAKAR**, Adm. No. E7806,
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This is to certify that **NIKHIL BALAKRISHNAN**, Adm. No. E8160,
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This is to certify that **RESHMA RAVI**, Adm. No. E8081, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **SAHEERA RAHIM**, Adm. No. E8426, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **SARA ABRAHAM**, Adm. No. E8290, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **SASNA UNNI**, Adm. No. E8414, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **SIVANI SIVADAS**, Adm. No. E8292, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **STEEVA ROSE BIJU**, Adm. No. E7828, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **SURYANARAYANAN S**, Adm. No. E8043, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **ABHISHEK LALU**, Adm. No. E8364, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C.

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This is to certify that **ALBERT WILSON KACHAPPILLY**, Adm. No. E8443, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **JEFFIN JOY**, Adm. No. E7927, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **JOYAL M B**, Adm. No. E8430, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C.

Course Coordinator



Dr. Preethi Nair

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This is to certify that **LINCHUMOL BENNY**, Adm. No. E8342, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C.

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This is to certify that **MOHAMMED BILAL K S**, Adm. No. E8395, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C.

Course Coordinator



Dr. Preethi Nair

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CERTIFICATE

This is to certify that **SANDRA MARIA JOHN**, Adm. No. E8148, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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CERTIFICATE

This is to certify that **SHILPA ANTOO**, Adm. No. E8255, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **ABHIRAMI ANANTHAKRISHNAN**, Adm. No. E8067, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **ALEENA JOY**, Adm. No. E8304, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **AMAL SANTHOSH**, Adm. No. E8032, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **JYOTHISH SHAJU**, Adm. No. E7822, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **NAVANEETH SABU**, Adm. No. E7844, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **PARVATHY VIKRAMAN**, Adm. No. E8038, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **SNEHA R NAIR**, Adm. No. E8041, First Semester B. Sc. Physics has completed a project titled '**Organic Manure Making**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **AJINA CHANDRAN**, Adm. No. E8162, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **AKSHAY SIVAN**, Adm. No. E8369, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **ANUGRAHA KRISHNAN**, Adm. No. E7860,
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This is to certify that **ARJUNAN C R**, Adm. No. E8456, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **CHYTHANNYA MURALEEDHARAN**, Adm. No. E8370, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **FELIX VADAKKUMCHERY**, Adm. No. E8074,
Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **JUWELL ROSE BABU**, Adm. No. E8132, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **KRISHNA VIJAYAN**, Adm. No. E8017, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **MALAVIKA PRABHAKAR**, Adm. No. E7806,
Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **NIKHIL BALAKRISHNAN**, Adm. No. E8160,
Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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CERTIFICATE

This is to certify that **RANJITH E T**, Adm. No. E7904, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **RESHMA RAVI**, Adm. No. E8081, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **SAHEERA RAHIM**, Adm. No. E8426, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **SARA ABRAHAM**, Adm. No. E8290, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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CERTIFICATE

This is to certify that **SASNA UNNI**, Adm. No. E8414, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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CERTIFICATE

This is to certify that **SIVANI SIVADAS**, Adm. No. E8292, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **STEEVA ROSE BIJU**, Adm. No. E7828, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **SURYANARAYANAN S**, Adm. No. E8043, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **ABHISHEK LALU**, Adm. No. E8364, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **ALBERT WILSON KACHAPPILLY**, Adm. No. E8443, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **JEFFIN JOY**, Adm. No. E7927, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **JOYAL M B**, Adm. No. E8430, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **LINCHUMOL BENNY**, Adm. No. E8342, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **ABHIRAMI ANANTHAKRISHNAN**, Adm. No. E8067, Second Semester B. Sc. Physics has completed a project titled '**Organic Farming**' as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that JUWELL ROSE BABU of class II B.Sc Physics has successfully completed the Add-on Course on "Arduino and Compatibles" (34 hours) conducted by the Department of Physics from January 2023 to May 2023. The programme was conducted as part of INDUSTRY ON CAMPUS (IOC), an initiative of ASDC, ASAP, Government of Kerala, in association with Government Polytechnic College, Perumbavoor.


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This is to certify that **KRISHNA VIJAYAN** of class
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This is to certify that **RESHMA RAVI** of class
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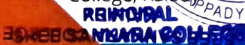
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This is to certify that **SANDRA MARIA JOHN** of class
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This is to certify that **SURYANARAYANAN S.** of class
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This is to certify that **ADILA AJEED** of class
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This is to certify that AHALLYA T.S. of class I M.Sc Physics has successfully completed the Add-on Course on "Arduino and Compatibles" (34 hours) conducted by the Department of Physics from January 2023 to May 2023. The programme was conducted as part of INDUSTRY ON CAMPUS (IOC), an initiative of ASDC, ASAP, Government of Kerala, in association with Government Polytechnic College, Perumbavoor.



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This is to certify that **ANAND JAYAKUMAR** of class **I M.Sc Physics** has successfully completed the Add-on Course on "Arduino and Compatibles" (34 hours) conducted by the Department of Physics from January 2023 to May 2023. The programme was conducted as part of INDUSTRY ON CAMPUS (IOC), an initiative of ASDC, ASAP, Government of Kerala, in association with Government Polytechnic College, Perumbavoor.



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No. IOCT/038

This is to certify that HARIKRISHNAN V.N. of class I M.Sc Physics has successfully completed the Add-on Course on "Arduino and Compatibles" (34 hours) conducted by the Department of Physics from January 2023 to May 2023. The programme was conducted as part of INDUSTRY ON CAMPUS (IOC), an initiative of ASDC, ASAP, Government of Kerala, in association with Government Polytechnic College, Perumbavoor.


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No. IOCT/039


This is to certify that KARTHIKA GOPAKUMAR of class I M.Sc Physics has successfully completed the Add-on Course on "Arduino and Compatibles" (34 hours) conducted by the Department of Physics from January 2023 to May 2023. The programme was conducted as part of INDUSTRY ON CAMPUS (IOC), an initiative of ASDC, ASAP, Government of Kerala, in association with Government Polytechnic College, Perumbavoor.



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No. IOCT/040

This is to certify that **MANESH S. KUMAR** of class
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