

"ENERGY MANAGEMENT"

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

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

SREELAKSHMI P

Reg No: -CHAUSPH010



Under the guidance of

Mr. RAMABADRAN C D

(Assistant Professor, Department of Physics)

GOVERNMENT COLLEGE CHITTUR

PALAKKAD

2020-2023

DECLARATION

I **"SREELAKSHMI P"** do hereby declare that this project report entitled as **"ENERGY MANAGEMENT"** is a bona-fid record of the project work carried by me during the academic year 2020-2023 in partial fulfilment of the requirements for the award of the degree of B.Sc. Physics of the university of Calicut. This work has not been undertaken or submitted elsewhere in connection with any academic course.

Place: Chittur

Date: 4|4|2023

CERTIFICATE

Certified that this is the bona-fide record of project on the topic "ENERGY MANAGEMENT" that has been presented by "SREELAKSHMI P" with register number CHAUSPH010 B.Sc. Physics, Government College Chittur, in partial fulfilment of the requirements for the award of the degree of B.Sc. in physics under the University of Calicut, during the period 2020-2023.

Place: Chittur

Date: 4/4/2023



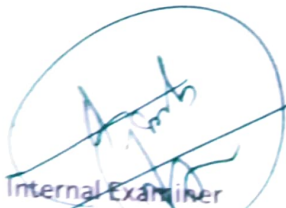
Head of the department

Head Department of Physics
Govt. College, Chittur



Staff in charge

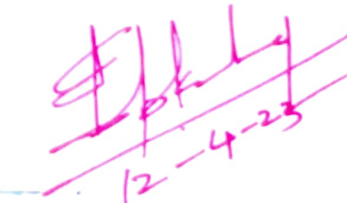
RAMABADRAN, C. D
Assistant Professor in Physics
Govt. College Chittur
Pin: 678 104



Internal Examiner

AJEESH P. V
Assistant Professor
Dept. of Physics
Govt. College Chittur
Palakkad-678 104

External Examiner



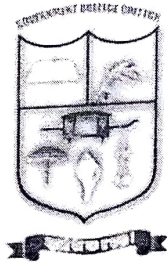
Dr. GOPIKRISHNA M
PEN: 604145
Assistant Professor of Physics
Department of Physics
Government Victoria College
Palakkad-678 001

*A REVIEW ON RECENT ADVANCES IN ENERGY SAVING CHEMIREISTIVE GAS
SENSORS*

A report submitted in partial fulfilment for the award of the degree of Bachelor
of Science in Physics

JISHNAKK

Reg No: CHAUSPH017

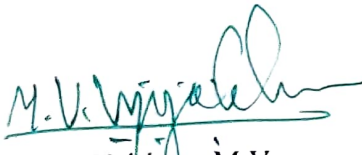


Department of Physics
Govt.College,Chittur,Palakkad
March 2023

Govt College, Chittur
Department of physics
Chittur, Palakkad-678104

CERTIFICATE

This is to clarify the project entitled "*A Review on Recent Advances in Energy Saving Chemiresistive Gas Sensors*". submitted by JISHNA KK is a record of bonafide work carried out by her, in the partial fulfilment of the required for the award of Degree of Bachelor of Science in Physics at Govt College, Chittur, Palakkad under the University of Calicut. This work is done during the year 2022-2023 (semester 6), under my guidance.



Vijaya Krishnan M.V

HOD, Department of Physics

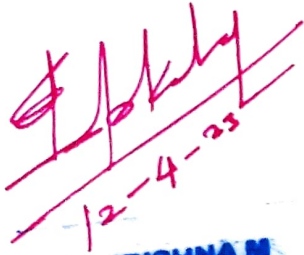
Govt. College, Chittur, Palakkad.



Shaheera.M

Faculty in charge

Examiner



Dr. GOPIKRISHNA M
PEN: 604145
Assistant Professor of Physics
Department of Physics
Government Victoria College
Palakkad-678 001



AJEESH. P. V
Assistant Professor
Dept. of Physics
Govt. College Chittur
Palakkad-678 104

“ENERGY MANAGEMENT”

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

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

SNEHA S

Reg No: -CHAUSPH009



Under the guidance of

Mr. RAMABADRAN C D

(Assistant Professor, Department of Physics)

GOVERNMENT COLLEGE CHITTUR

PALAKKAD

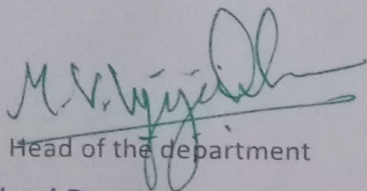
2020-2023

CERTIFICATE

Certified that this is the bona-fide record of project on the topic "ENERGY MANAGEMENT" that has been presented by "SNEHA S" with register number CHAUSPH009 B.Sc. Physics, Government College Chittur, in partial fulfilment of the requirements for the award of the degree of B.Sc. in physics under the University of Calicut, during the period 2020-2023.

Place: Chittur

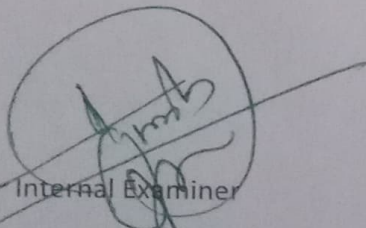
Date:



Head of the department

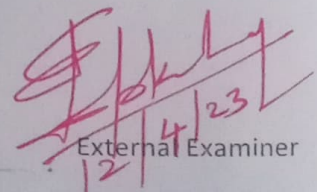
**Head Department of Physics
Govt. College, Chittur**

Staff in charge



Internal Examiner

**AJEESH P V
Assistant Professor
Dept. of Physics
Govt. College Chittur
Palakkad-678 104**



External Examiner

**Dr. GOPIKRISHNA M
PEN: 604145
Assistant Professor of Physics
Department of Physics
Government Victoria College
Palakkad-678 001**

GOVERNMENT COLLEGE

CHITTUR

PALAKKAD



Project Report

On

EVOLUTION OF SCIENTIFIC EQUIPMENTS: A CASE STUDY

Presented by

KRISHNAPRIYA K

Guided by

VIJAYAKRISHNAN M.V.

DEPARTMENT OF PHYSICS

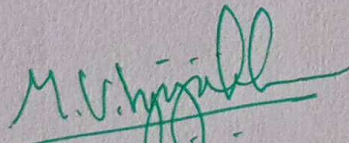
2020-2023

CERTIFICATE

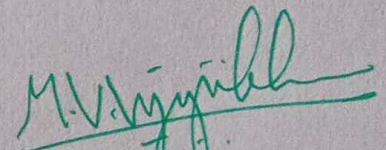
Certified that this is the bonafide record of project on **EVOLUTION OF SCIENTIFIC EQUIPMENTS: A CASE STUDY** that has been presented by **..KRISHNAPRIYA.K.....** with register number **CHAUS.P.H.003...**, B.Sc. Physics, Government College, Chittur in partial fulfillment of the requirements for the award of the degree programme in B.Sc. Physics under the University of Calicut during the year 2020-2023.

Date:

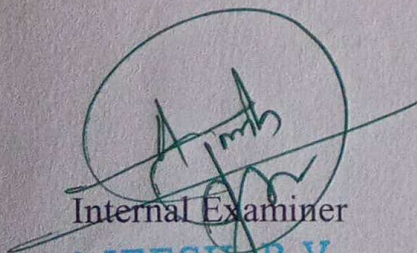
Place:

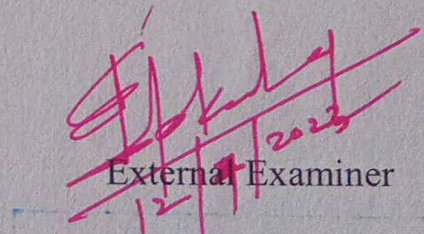

Head of Department

Head Department of Physics
Govt. College, Chittur


Staff in charge

VIJAYAKRISHNAN M.V
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Directorate of Collegiate Education


Internal Examiner
AJEESH P. V
Assistant Professor
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Govt. College Chittur
Palakkad-678 104


External Examiner
Dr. GOPIKRISHNA M
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Palakkad-678 091

GOVERNMENT COLLEGE

CHITTUR

PALAKKAD



Project Report

On

GEOMAGNETIC STORMS – A STUDY

Presented by

MANYA V

Reg.No: CHAUSPH004

Guided by

VIJAYAKRISHNAN M.V.

DEPARTMENT OF PHYSICS

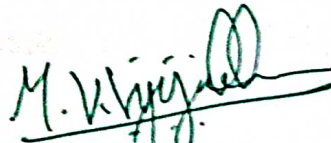
2020-2023

CERTIFICATE

Certified that this is the bonafide record of project on **GEOMAGNETIC STORMS – A STUDY** that has been presented by**MANYA...V.....** with register number **CHAUSPHOQA..**, B.Sc. Physics, Government College, Chittur in partial fulfillment of the requirements for the award of the degree programme in B.Sc. Physics under the University of Calicut during the year 2020-2023.

Date:

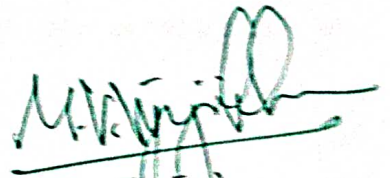
Place:



M. Vijayakrishnan

Head of Department

Head Department of Physics
Govt. College, Chittur



Vijayakrishnan M.V.

Staff in charge

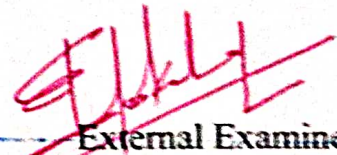
VIJAYAKRISHNAN M.V
Assistant Professor
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PEN : 619813.
Directorate of Collegiate Education



Ajeesh P.V.

Internal Examiner

AJEESH. P.V
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Dr. Gopikrishna M.

External Examiner

Dr. GOPIKRISHNA M
PEN: 604145
Assistant Professor of Physics
Department of Physics
Government Victoria College
Palakkad-678 001

GOVERNMENT COLLEGE

CHITTUR

PALAKKAD



Project Report

On

GEOMAGNETIC STORMS – A STUDY

Presented by

NITHYA R

Reg.No: CHAUSPH006

Guided by

VIJAYAKRISHNAN M.V.

**DEPARTMENT OF PHYSICS
2020-2023**

CERTIFICATE

Certified that this is the bonafide record of project on
GEOMAGNETIC STORMS – A STUDY that has been presented by
..... **NITHYA-R** with register number **CHAUSPH006**, B.Sc. Physics,
Government College, Chittur in partial fulfillment of the requirements for the award
of the degree programme in B.Sc. Physics under the University of Calicut
during the year 2020-2023.

Date:

Place:



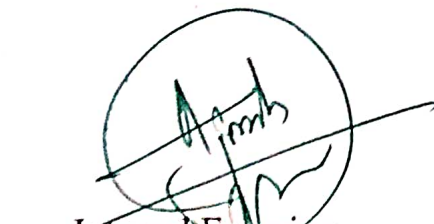
Head of Department

Head Department of Physics
Govt. College, Chittur

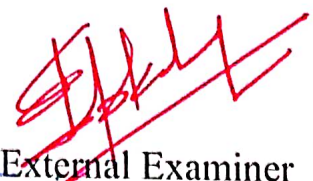


Staff in charge

VIJAYAKRISHNAN M.V
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Govt. College, Chittur - 678 104
PEN : 619613.
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External Examiner
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Assistant Professor of Physics
Department of Physics
Government Victoria College
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GOVERNMENT COLLEGE

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PALAKKAD



Project Report

On

GEOMAGNETIC STORMS – A STUDY

Presented by

SNEHA R

Reg.No: CHAUSPH008

Guided by

VIJAYAKRISHNAN M.V.

DEPARTMENT OF PHYSICS

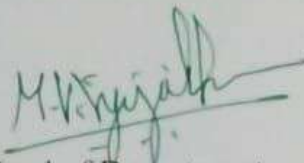
2020-2023

CERTIFICATE

Certified that this is the bonafide record of project on
GEOMAGNETIC STORMS – A STUDY that has been presented by
SNEHA R with register number CHAUSPH008, B.Sc. Physics,
Government College, Chittur in partial fulfillment of the requirements for the award
of the degree programme in B.Sc. Physics under the University of Calicut
during the year 2020-2023.

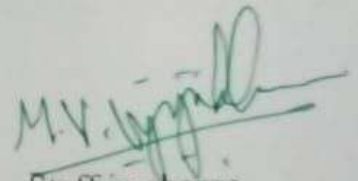
Date:

Place:



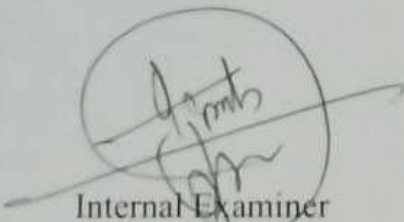
Head of Department

Head Department of Physics
Govt. College, Chittur



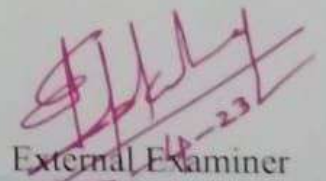
Staff in charge

VIJAYAKRISHNAN M.V
Assistant Professor
Department of Physics
Govt. College, Chittur - 678 104
PEN : 619613.
Directorate of Collegiate Education



Internal Examiner

AJEESH P.V
Assistant Professor
Dept. of Physics
Govt. College Chittur
Palakkad-678 104



External Examiner

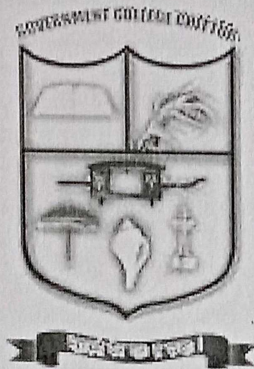
Dr. GOPIKRISHNA M
PEN: 604145
Assistant Professor of Physics
Department of Physics
Government Victoria College
Palakkad-678 001

TELESCOPE :

AN EYE FOR SEEING BACK INTO THE COSMOS

A Project Report Submitted to Calicut University in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS



Submitted by

NAME : SREERANJINI V V

Reg. No: CHAUSPH025

Under the guidance of

Mr. AJEESH P V

(Assistant Professor, Department of Physics)

GOVERNMENT COLLEGE CHITTUR

PALAKKAD

2020-2023

DECLARATION

I SREERANJINI V V do hereby declare that this project report entitled as **TELESCOPE : AN EYE FOR SEEING BACK INTO THE COSMOS** is a bonafide record of the project work carried by me during the academic year 2020- 2023 in partial fulfillment of the requirements for the award of the degree of B.Sc. Physics of the university of Calicut. This work has not been undertaken or submitted elsewhere in connection with any academic course.

Place:Chittur

Date: 31/03/2023

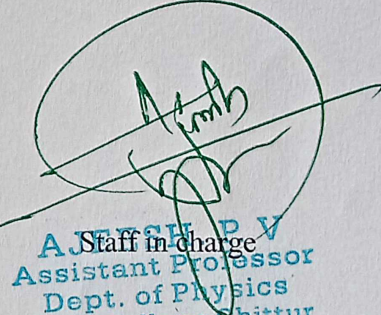
CERTIFICATE

Certified that this is the bona-fide record of project on the topic **TELESCOPE: AN EYE FOR SEEING BACK INTO THE COSMOS** that has been presented by SREERANJINI V V with register number CHAUSPH025 B.Sc. Physics, Government College Chittur, in partial fulfilment of the requirements for the award of the degree of B.Sc. in physics under the University of Calicut, during the period 2020-2023.

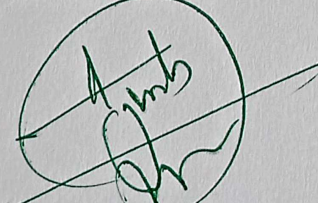
Place:Chittur

Date: 31/03/2023

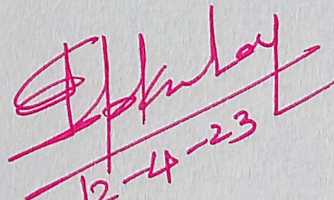

Head of the department
Head Department of Physics
Govt. College, Chittur


AJEESE P V
Staff in charge
Assistant Professor
Dept. of Physics
Govt. College Chittur
Palakkad-678 104

Internal Examiner


AJEESE P V
Assistant Professor
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Govt. College Chittur
Palakkad-678 104

External Examiner


12-4-23

Dr. GOPIKRISHNA M
PEN: 604145
Assistant Professor of Physics
Department of Physics
Government Victoria College
Palakkad-678 001

GOVERNMENT COLLEGE

CHITTUR

PALAKKAD



Project Report

On

EVOLUTION OF SCIENTIFIC EQUIPMENTS: A CASE STUDY

Presented by

ATHULYA R K

Guided by

VIJAYAKRISHNAN M.V.

DEPARTMENT OF PHYSICS

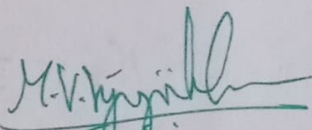
2020-2023

CERTIFICATE

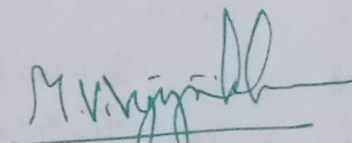
Certified that this is the bonafide record of project on
EVOLUTION OF SCIENTIFIC EQUIPMENTS: A CASE STUDY that has been
presented by ATHULYA R.K with register number CHAUSPH002,
B.Sc. Physics, Government College, Chittur in partial fulfillment of the requirements for
the award of the degree programme in B.Sc. Physics under the University
of Calicut during the year 2020-2023.

Date:

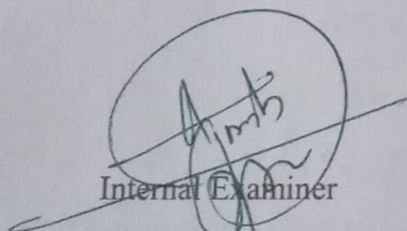
Place:


Head of Department

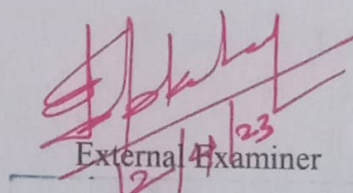
Head Department of Physics
Govt. College, Chittur


Staff in charge

VIJAYAKRISHNAN M.V
Assistant Professor
Department of Physics
Govt. College, Chittur - 678 104
PEN : 619613.
Directorate of Collegiate Education


Internal Examiner

AJEESH P.V
Assistant Professor
Dept. of Physics
Govt. College Chittur
Palakkad-678 104

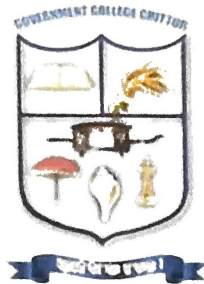

External Examiner
Dr. GOPIKRISHNA M
PEN: 604145
Assistant Professor of Physics
Department of Physics
Government Victoria College
Palakkad-678 001

***A REVIEW ON RECENT ADVANCES IN ENERGY SAVING CHEMIRERESISTIVE GAS
SENSORS***

A report submitted in partial fulfilment for the award of the degree of
Bachelor of Science in Physics

RAGESH R

Reg No: CHAUSPH020



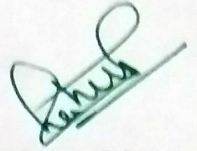
Department of Physics
Govt.College,Chittur,Palakkad
March 2023

Govt College, Chittur
Department of physics
Chittur, Palakkad-678104

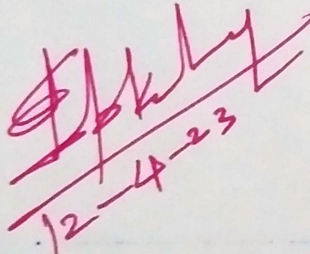
CERTIFICATE

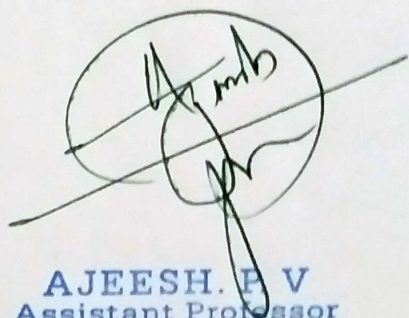
This is to clarify the project entitled "*A Review on Recent Advances in Energy Saving Chemiresistive Gas Sensors*", submitted by RAGESH R is a record of bonafide work carried out by his, in the partial fulfilment of the required for the award of Degree of Bachelor of Science in Physics at Govt College, Chittur, Palakkad under the University of Calicut. This work is done during the year 2022-2023 (semester 6), under my guidance.

Vijaya Krishnan M.V
HOD, Department of Physics
Govt. College, Chittur, Palakkad.


Shaheera.M
Faculty in charge

Examiner


12-14-23
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PEN: 604146
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Department of Physics
Government Victoria College
Palakkad-678 001


AJEESH. P V
Assistant Professor
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Govt. College Chittur
Palakkad-678 104