(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Synthesis of Iron Oxide Nano particles using coir fibre extracts" is the bonafide work carried out by Ms. Anjima D. under my guidance and supervision, as part of the curriculum of Integrated Programme in Basic Science Physics under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

DR. JOB INTY VARGHESE
Primips in -charge
Mer Thome College For Women
Perumbaydor - 683 542

Head of the Department

PERUMBAVOOR

DEPT. OF PHYSICS

I, Anjima D., do hereby declare that this project report entitled "Synthesis of Iron Oxide Nano particles using coir fibre extracts" is a based on the original work and carried out by me under the Guidance of Dr. Melvi Chandy, Department of Physics, Mar Thoma College for Women, Perumbayoor.

Place: Perumbavoor

Date: 12/4/2022

Signature:

AND

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Synthesis of Copper Oxide Nano particles" is the bonafide work carried out by Ms. Krishnendu K.K. under my guidance and supervision, as part of the curriculum of Integrated Programme in Basic Science Physics under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

Head of the Department

ERUMBAVOOR DEPT OF PHY

I, Krishnendu K. K., do hereby declare that this project report entitled "Synthesis of Copper Oxide Nano particles" is a based on the original work and carried out by me under the Guidance of Dr. Rajani Jacob, Department of Physics, Mar Thoma College for Women, Perumbavoor.

Place: Perumbavoor

Date: 12/04/2022

Signature: dul

DEPARTMENT OF PHYSICS MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "HOME ENERGY AUDIT" is thebonafide work carried out byMs.KHADEEJAM.H(Reg.no:190021041539) undermy guidance and supervision during 2021-2022, in partial fulfilment of therequirement for the award of the Degree of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

Viva Voice Examination Held on ... 18/ 95/2022

Project Guide

1 Page

Head of the Department

PERUMBAVOOR BEPT OF PHYSIC

External Examiner

I, KHADEEJA M.H do hereby declare that this project report entitled "HOME ENERGY AUDIT" is a based on the original work and carried out by me under TheGuidance of Dr.RajaniJacob, Department of Physics, Mar Thoma College forWomen, Perumbayoor.

KHADEEJA M.H

tadego

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Experiment to find Stefan's Constant" is the bonafide work carried out by Ms. Ramseena Shameer under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

DR. SUPPLICATION OF THE PROPERTY OF THE PROPER

Mar Thoma College For Wome Perumbayoon + 893 542 Head of the Department



I, Ramseena Shameer, do hereby declare that this project report entitled "Experiment to find Stefan's Constant" is a based on the original work and carried out by me under the Guidance of Dr. Rajani Jacob, Department of Physics, Mar Thoma College for Women, Perumbayoor.

Place: Perumbavoor

Date: 12 4 2022

Signature:

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Synthesis Of Silver Nano Particles Using Coir Fibre Extracts" is the bonafide work carried out by Ms. Ameena M. K. under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

DR. SUJO RY ARGHESE Pring In Charge Mar Thoma College For Women Parumbaycor - 883 542 Head of the Department



I, Ameena M. K. do hereby declare that this project report entitled "Synthesis Of Silver Nano Particles Using Coir Fibre Extracts" is a based on the original work and carried out by me under the Guidance of Dr. Melvi Chandy, Department of Physics, Mar Thoma College for Women, Perumbayoor.

Place: Perumbavoor

Date: 12/4/2022

Signature: Agus

(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "ENERGY AUDIT - INSTITUTION 2021-22" is the bonafide work carried out by Ms. FATHIMA T.S (Reg.no:190021041537) under my guidance and supervision during 2021-2022, in partial fulfilment the requirement for the award of the Degree of Bachelor of Physics (Model II Applied Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

Viva Voice Examination Held on 18 05 2022

Project Guide

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Head of the Department

External Examiner

PERUMBAVOOR

RY VARGHESE Afincipal - in - charge
Mar Thoma College For Women

Perumbayoor - 683 542

I FATHIMA T.S do hereby declare that this project report entitled "ENERGY AUDIT – INSTITUTION 2021-22" is a based on the original work and carried out by me under the Guidance of Dr. Anupama P, Assistant Professor, Department Of Physics, Mar Thoma College for Women, Perumbayoor.

Date 18-5-2022
Place Perumbayout

FATHIMA T.S

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Wireless EV Charging Station" is the bonafide work carried out by Ms. Shahima Shahazada under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

Dr. SUJIC RY ARGHESE Principal and arga Mar Thoma Callega For Women Perunharoza - 805 842 Head of the Department



I, Shahima Shahazada, do hereby declare that this project report entitled "Wireless EV Charging Station" is a based on the original work and carried out by me under the Guidance of Dr. Melvi Chandy, Department of Physics, Mar Thoma College for Women, Perumbavoor.

Place: Perumbayoor

Date: 12/4/2022

Signature: Bah

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Experiment to find Stefan's Constant" is the bonafide work carried out by Ms. Alfiya Kareem under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

Head of the Department

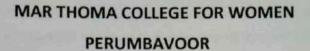


I, Alfiya Kareem, do hereby declare that this project report entitled "Experiment to find Stefan's Constant" is a based on the original work and carried out by me under the Guidance of Dr. Rajani Jacob, Department of Physics, Mar Thoma College for Women, Perumbavoor.

Place: Perumbavoor

Date: 12 | 4 | 2022

Signature: Alfigu



(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "ENERGY AUDIT – INSTITUTION 2021-22" is the bonafide work carried out by Ms. FATHIMA HAMSA (Reg.no:190021041536) under my guidance and supervision during 2021-2022, in partial fulfilment the requirement for the award of the Degree of Bachelor of Physics (Model II Applied Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

Project Guide

Head of the Department

PERUMBAYOOR

DEPT OF PHYSIC

External Examiner

I FATHIMA HAMSA do hereby declare that this project report entitled "ENERGY AUDIT – INSTITUTION 2021-22" is a based on the original work and carried out by me under the Guidance of Dr. Anupama P, Assistant Professor, Department Of Physics, Mar Thoma College for Women, Perumbayoor.

Date 18/5/20 Place perumbavoor

FATHIMA HAMSA

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Determination of the Mass of the Jupiter from the Orbital data of its Moons using Stellarium " is the bonafide work carried out by Ms. Nithuna Rajan. under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

Head of the Department

PERUMBAVOOR DEPT OF PHYS

I, Nithuna Rajan, do hereby declare that this project report entitled "Determination of the Mass of the Jupiter from the Orbital data of its Moons using Stellarium" is a based on the original work and carried out by me under the Guidance of Dr. Rajani Jacob, Department of Physics, Mar Thoma College for Women, Perumbayoor.

Place: Perumbayoor

Date: 18.05-2022

Signature: Nithung

(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "HOME ENERGY AUDIT" is the bonafide work carried out by Ms. SURYA M.C (Reg.no:190021041541) Under my guidance and supervision during 2021-2022, in partial fulfilment the requirement for the award of the Degree of Bachelor of Science (Model II Applied Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

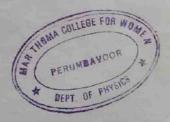
Viva Voice Examination Held on ...18/05/2022

Project Guide

Head of the Department

External Examiner





DR. SU. O FAR VARGHESE Purcipal - In charge May home College For Women Perumbayoor - 683 542

I Surya mc do hereby declare that this project report entitled "HOME ENERGY AUDIT" is a based on the original work and carried out by me under the Guidance of Dr. Rajani Jacob Department of Physics, Mar Thoma College for Women, Perumbayoor.

Date: 18/5/22
Place: parambayour

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SURTA M.C

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Determination of the Mass of the Jupiter from the Orbital data of its Moons using Stellarium" is the bonafide work carried out by Ms. Daya Das P. K. under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

Head of the Department

ERUMBAVOOR BEPT OF PHY

I, Daya Das P. K., do hereby declare that this project report entitled "Determination of the Mass of the Jupiter from the Orbital data of its Moons using Stellarium" is a based on the original work and carried out by me under the Guidance of Dr. Rajani Jacob, Department of Physics, Mar Thoma College for Women, Perumbavoor.

Place: Perumbavoor

Date: 12-04-2022

Signature:

(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "ENERGY AUDIT – INSTITUTION 2021-22" is the bonafide work carried out by Ms. AKHINA K SUDHEESH (Reg.no:190021041534) under my guidance and supervision during 2021-2022, in partial fulfilment the requirement for the award of the Degree of Bachelor of Physics (Model II Applied Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

Viva Voice Examination Held on 18 105 1202 2

Project Guide

Head of the Department

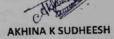
THEMA COLLEGE FOR

DEPT OF PHYSIC

External Examiner

I, AKHINA K SUDHEESH do hereby declare that this project report entitled "ENERGY AUDIT – INSTITUTION 2021-22" is a based on the original work and carried out by me under the Guidance of Dr. Anupama P, Assistant Professor, Department Of Physics, Mar Thoma College for Women, Perumbayoor.

Date 18-5-2022
Place Perumbayour



(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Wireless EV Charging Station" is the bonafide work carried out by Ms. Syamini Sasi under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

DR. SUPPLY VARGHESE FOR THE PARTY WOMEN PREMIUM FOR SIZE AND THE PARTY WOMEN FOR SIZE AND THE PARTY WOM

Head of the Department



I, Syamini Sasi, do hereby declare that this project report entitled "Wireless EV Charging Station" is a based on the original work and carried out by me under the Guidance of Dr. Melvi Chandy, Department of Physics, Mar Thoma College for Women, Perumbavoor.

Place: Perumbayoor

Date: 12/04/2022

Signature:

(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "ENERGY AUDIT – INSTITUTION 2021-22" is the bonafide work carried out by Ms. AKHINA K SUDHEESH (Reg.no:190021041534) under my guidance and supervision during 2021-2022, in partial fulfilment the requirement for the award of the Degree of Bachelor of Physics (Model II Applied Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

Viva Voice Examination Held on 18 105 1 202 2

Project Guide

Head of the Department

THOMA COLLEGE FOR

Perimbayoor - 683 542

External Examiner

I, AKHINA K SUDHEESH do hereby declare that this project report entitled "ENERGY AUDIT – INSTITUTION 2021-22" is a based on the original work and carried out by me under the Guidance of Dr. Anupama P, Assistant Professor, Department Of Physics, Mar Thoma College for Women, Perumbayoor.

Date 18-5-2022
Place Perumbayory

AKHINA K SUDHEESH

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)

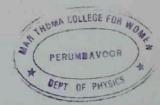


CERTIFICATE

This is to certify that the project report entitled "CARBON FOOTPRINT ANALYSIS" is the bonafide work carried out by Ms. Treesa Maria Stanley under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

DR. SUJO MAR VARGHESE Principal College For Woman Parimbanase 507 Woman Head of the Department





I, Treesa Maria Stanly do hereby declare that this project report entitled "CARBON FOOTPRINT ANALYSIS" is a based on the original work and carried out by me under the Guidance of Dr. Anupama P., Department of Physics, Mar Thoma College for Women, Perumbayoor.

Place: Perumbavoor

Date: 12/04/2022

Signature: Took



(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "HOME ENERGY AUDIT" is the bonafide work carried out by Ms. ADHILA KS (Reg.no:190021041542) under my guidance and supervision during 2021-2022, in partial fulfilment of the requirement for the award of the Degree of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

Viva Voice Examination Held on .18.05- 2022

Project Guide

Head of Department

PERUMBAVOOR

External Examiner



I, ADHILA KS do hereby declare that this project report entitled "HOME ENERGY AUDIT" is a based on the original work and carried out by me under the Guidance of Dr. Rajani Jacob Department of Physics, Mar Thoma College for Women, Perumbayoor

Date: 18/05/2022

Williet Children in the contraction of the contract

Place: perumbavour

Adhila ks

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Resistivity of a semiconductor using four probe analysis" is the bonafide work carried out by Ms. Ansila Anas under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

DR. SUNO ARGHESE
Print pel- in-charge
Mer Thoma Gollege For Women

Head of the Department





I, Ansila Anas, do hereby declare that this project report entitled "Resistivity of a semiconductor using four probe analysis" is a based on the original work and carried out by me under the Guidance of Dr. Melvi Chandy, Department of Physics, Mar Thoma College for Women, Perumbayoor.

Place: Perumbayoor

Date: 12/04/2022

Signature: Artor

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)

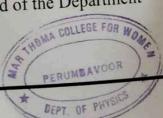


CERTIFICATE

This is to certify that the project report entitled "Synthesis of Iron Oxide Nano particles using coir fibre extracts" is the bonafide work carried out by Ms. Laya S Pillai under my guidance and supervision, as part of the curriculum of Integrated Programme in Basic Science Physics under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

Dn. Prin pel In - charga
Mer Thoma College For Women
Perumbayoor - 683 542



I, Laya S Pillai, do hereby declare that this project report entitled "Synthesis of Iron Oxide Nano particles using coir fibre extracts" is a based on the original work and carried out by me under the Guidance of Dr. Melvi Chandy, Department of Physics, Mar Thoma College for Women, Perumbavoor.

Place: Perumbavoor

Date: 12 04-2022

(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "ENERGY AUDIT – INSTITUTION 2021-22" is the bonafide work carried out by Ms. ANU PAUL (Reg.no:190021041535) under my guidance and supervision during 2021-2022, in partial fulfilment the requirement for the award of the Degree of Bachelor of Physics (Model II Applied Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

Viva Voice Examination Held on ...18. 05/22.....

Project Guide

Head of the Department

PERUMBAVOOR

DEPT OF PHYSIC

External Examiner

I, ANU PAUL do hereby declare that this project report entitled "ENERGY AUDIT – INSTITUTION 2021-22" is a based on the original work and carried out by me under the Guidance of Dr. Anupama P, Assistant Professor, Department Of Physics, Mar Thoma College for Women, Perumbayoor.

Date 18/5/2022
Place Powmbow00%

And paul

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)

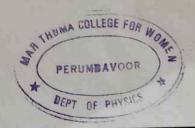


CERTIFICATE

This is to certify that the project report entitled "Synthesis of Copper Oxide Nano particles" is the bonafide work carried out by Ms. Lucy Sneha George under my guidance and supervision, as part of the curriculum of Integrated Programme in Basic Science Physics under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

DR. SUDMARY VARGHESE Principal - In - charge Mar Thoma College For Women

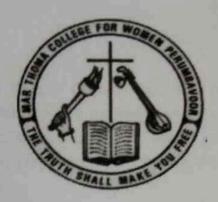


I, Lucy Sneha George, do hereby declare that this project report entitled "Synthesis of Copper Oxide Nano particles" is a based on the original work and carried out by me under the Guidance of Dr. Rajani Jacob, Department of Physics, Mar Thoma College for Women, Perumbavoor.

Place: Perumbavoor

Date: 12.04.2021

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Synthesis of Iron Oxide Nano particles using coir fibre extracts" is the bonafide work carried out by Ms. Krishna V. S. under my guidance and supervision, as part of the curriculum of Integrated Programme in Basic Science Physics under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

DR. Print DRI VARGHESE Print DRI VIN - charge Mar Thoma Ucilege For Women Perumbayoor - 663 542

Head of the Department

PERUMBAVOOR

DEPT OF PHYSICS

I, Krishna V. S., do hereby declare that this project report entitled "Synthesis of Iron Oxide Nano particles using coir fibre extracts" is a based on the original work and carried out by me under the Guidance of Dr. Melvi Chandy, Department of Physics, Mar Thoma College for Women, Perumbavoor.

Place: Perumbavoor

Date: 12/04/2022

Signature: Augustus

Mar Thoma College for Women Perumbavoor

(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "INDUSTRIAL ENERGY AUDIT" is the bonafide work carried out by Ms. Farsana Ashraf (Reg.no:190021041547) under My guidance and supervision during 2021-2022, in partial fulfilment of the Requirement for the award of the Degree of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

Viva Voice Examination Held on ... 18 05 120 22

Project Guide

Head of the Department

PERLIMBAVOOR

DEPT OF PHYSIC

External Examiner

On. STIGHT Y VARGHESE
PARTITION COMES FOR Women
Perumbayone 522 522

Declaration I Farsana Ashraf hereby declare that this project report entitled "REPORT ON ENERGY AUDIT PROGRAM " has been prepared by us during the year 2022, under the guidance of Dr. Melvi Chandy ,Department Physics, Mar Thoma college for women Perumbavoor. Place: Perumbavoor Date: (8/3/ 2022

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Wireless EV Charging Station" is the bonafide work carried out by Ms. Revathy Rajeev under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

DR. SUPPLIES VARGHESE Prior tel-in charge Mar Thoma Ollego For Women Perumbayoor - 888 549





I, Revathy Rajeev, do hereby declare that this project report entitled "Wireless EV Charging Station" is a based on the original work and carried out by me under the Guidance of Dr. Melvi Chandy, Department of Physics, Mar Thoma College for Women, Perumbavoor.

Place: Perumbayoor

Date:

(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "HOME ENERGY AUDIT" is the bonafide work carried out by Ms. Afrin M K (Reg.no:190021041543) under my guidance and supervision during 2021-2022, in partial fulfilment of the requirement for the award of the Degree of Bachelor of Science in Physics (ModelII Applied Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

Viva Voice Examination Held on 18 05 2022

Project Guide Examiner Head of the Department

External





DR. SUN WARD VARGHESS
Principal Archaege
Mar Thoma Goldege For Women
Perumbaycor - 683 542

I, Afrin M K do hereby declare that this project report entitled "HOME ENERGY AUDIT" is a based on the original work and carried out by me under the Guidance of Dr.Paulose Thomas Department of Physics, Mar Thoma College for Women, Perumbavoor

pale: 18-5-22
Place: perambaron

AFRIND K

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Dielectric Constant of a Solid and Liquid" is the bonafide work carried out by Ms. Nandana Jayan under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

Dr. SUJO MARY POYESE
Principal-in-charge
Mer Thoma College For Women
Perumbayor - 883 842





I, Nandana Jayan, do hereby declare that this project report entitled "Dielectric Constant of a Solid and Liquid" is a based on the original work and carried out by me under the Guidance of Dr. Paulose Thomas, Department of Physics, Mar Thoma College for Women, Perumbavoor.

Place: Perumbavoor

Date: 12 | 4 | 20 2 2

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)

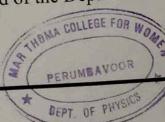


CERTIFICATE

This is to certify that the project report entitled "Determination of the Mass of the Jupiter from the Orbital data of its Moons using Stellarium" is the bonafide work carried out by Ms. Shahanas T. S. under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

DR. Prin ipsi in - charge
Mar Thoma College For Women
Perumbayoor - 683 542



I, Shahanas T. S., do hereby declare that this project report entitled "Determination of the Mass of the Jupiter from the Orbital data of its Moons using Stellarium" is a based on the original work and carried out by me under the Guidance of Dr. Rajani Jacob, Department of Physics, Mar Thoma College for Women, Perumbavoor.

Place: Perumbavoor

Date: 12 4 2022

(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "HOME ENERGY AUDIT" is the bonafide work carried out by Ms. AKHILENDU. T. ANIL (Reg.no:190021041544) under my guidance and supervision during 2021-2022, in partial fulfilment of the requirement for the award of the Degree of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

Viva Voice Examination Held on 18/05/2022

Oct Guide

Head of the Department

External Examiner





I, AKHILENDU T ANIL do hereby declare that this project report entitled "HOME ENERGY AUDIT" is a based on the original work and carried out by me under the Guidance of Dr.Paulose Thomas Department of Physics, Mar Thoma College for Women, Perumbayoor

Date: 18-05-2022

Place: Percumbavoor

AKHILENDU.T. ANIL

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Synthesis of Silver Nano Particles Using Coir Fibre Extracts" is the bonafide work carried out by Ms. Nasooha Jalal under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

Dn. SU DAY ARCHESE
Print - In charge
Mar Thoma College For Women
Parumbavoor - 883 542



I, Nasooha Jalal do hereby declare that this project report entitled "Synthesis of Silver Nano Particles Using Coir Fibre Extracts" is a based on the original work and carried out by me under the Guidance of Dr. Melvi Chandy, Department of Physics, Mar Thoma College for Women, Perumbayoor.

Place: Perumbayoor

Date: 19/11/2022

(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "ENERGY AUDIT – INSTITUTION 2021-22" is the bonafide work carried out by Ms. FATHIMATH SANIYA(Reg.no:190021041538) under my guidance and supervision Bacheloried Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

Viva Voice Examination Held on 8/05/2022

Project Guide

Head of the Department

ead of the Department External Examiner

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DR, SUJO MARY VANGHESE Principal-in charge Mar Thoma College For Women Perumbayoor - 883 542

I, FATHIMATH SANIYA do hereby declare that this project report entitled "ENERGY AUDIT – INSTITUTION 2021-22" is a based on the original work and carried out by me under the Guidance of Dr., RAJANI JACOB Assistant Professor, Department Of Physics, Mar Thoma College for Women, Perumbayoor.

Date 18/5/ a 2 Place Najamile

FATHIMATH SANIYA

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)

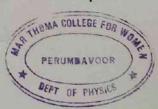


CERTIFICATE

This is to certify that the project report entitled "Wireless EV Charging Station" is the bonafide work carried out by Ms. Farisha K.M. under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

DR. SUJO PROVARGHESE
Pring to in charge
Mar Thome College For Women
Perumbeyoor - 683 542





I, Farisha K. M., do hereby declare that this project report entitled "Wireless EV Charging Station" is a based on the original work and carried out by me under the Guidance of Dr. Melvi Chandy, Department of Physics, Mar Thoma College for Women, Perumbayoor.

Place: Perumbayoor

Date: 12/4/22

Mar Thoma College for Women Perumbavoor

(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "INDUSTRIAL ENERGY AUDIT" is the bonafide work carried out by Ms. Fathima Shiril (Reg.no:190021041548) under My guidance and supervision during 2021-2022, in partial fulfilment of the Requirement for the award of the Degree of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

Viva Voice Examination Held on ... 18 / 05/2022

Project Guide

Head of the Department

PERUMBAVOOR

DEPT OF PHYSIC

External Examiner

DR. STANDAY VARGHESE
Mat Thomas College For Womes

Declaration

I Fathima Shiril hereby declare that this project report entitled "REPORT ON ENERGY AUDIT PROGRAM " has been prepared by us during the year 2022, under the guidance of Dr. Melvi Chandy ,Department Physics, Mar Thoma college for women Perumbavoor.

Place: Perumbavoor

Date: 18/05/2022

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(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)

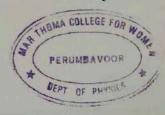


CERTIFICATE

This is to certify that the project report entitled "Resistivity of a semiconductor using four probe analysis" is the bonafide work carried out by Ms. Sana Sayed under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

DR. STAN VARGHESE
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I, Sana Sayed, do hereby declare that this project report entitled "Resistivity of a semiconductor using four probe analysis" is a based on the original work and carried out by me under the Guidance of Dr. Melvi Chandy, Department of Physics, Mar Thoma College for Women, Perumbayoor.

Place: Perumbavoor
Date: (2/4/2022

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "CARBON FOOTPRINT ANALYSIS" is the bonafide work carried out by Ms. Aiswarya Ramesh under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

Head of the Department

PERUMBAVOO

I, Aiswarya Ramesh do hereby declare that this project report entitled "CARBON FOOTPRINT ANALYSIS" is a based on the original work and carried out by me under the Guidance of Dr. Anupama P., Department of Physics, Mar Thoma College for Women, Perumbayoor.

Place: Perumbayoor

Date: 12/4/2022

Signature: Asso

Mar Thoma College for Women Perumbayoor

(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "INDUSTRIAL ENERGY AUDIT" is the bonafide work carried out by Ms. Durga Gopan (Reg.no:190021041546) under My guidance and supervision during 2021-2022, in partial fulfilment of the Requirement for the award of the Degree of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

Viva Voice Examination Held on 18 | 05 | 30 23

Project Guide Head of the Department

External Examiner

DR. STOWARY VARGHESE Principal in - charge Var Thoms Orlege For Women Parumbayoor - 883 547

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Dielectric Constant of a Solid and Liquid" is the bonafide work carried out by Ms. Najiya A. A. under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

DR. SUJO AR VARGHESE Prist In - harge Mar Thoma College For Woman Perumbayoor - 633 542



(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



CERTIFICATE

This is to certify that the project report entitled "Synthesis of Copper Oxide Nano particles" is the bonafide work carried out by Ms. Anagha P. S. under my guidance and supervision, as part of the curriculum of Integrated Programme in Basic Science Physics under the faculty of Science of Mahatma Gandhi University, Kottayam, Kerala during the academic year 2021-2022.

Project Guide

Head of the Department

PERUMBAYOOR A DEPT OF PHYSICS

I, Anagha P. S., do hereby declare that this project report entitled "Synthesis of Copper Oxide Nano particles" is a based on the original work and carried out by me under the Guidance of Dr. Rajani Jacob, Department of Physics, Mar Thoma College for Women, Perumbavoor.

Place: Perumbayoor

Date: 12/04/2012

Declaration

I Anna Davis hereby declare that this project report entitled "REPORT ON ENERGY AUDIT PROGRAM" has been prepared by us during the year 2022, under the guidance of Dr. Paulose Thomas ,Department Physics, Mar Thoma college for women Perumbavoor.

Place: Perumbavoor

Date: 18/05/2020

Anna cavis

Mar Thoma College for Women Perumbavoor

(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project report entitled "INDUSTRIAL ENERGY AUDIT" is the bonafide work carried out by Ms. Anna Davis (Reg.no:190021041545) under My guidance and supervision during 2021-2022, in partial fulfilment of the Requirement for the award of the Degree of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of the Mahatma Gandhi University, Kottayam during the academic session 2021-2022.

Viva Voice Examination Held on ... 18 105 2022

Project Guide

Head of the Department

PERUMBAVOOR

External Examiner

DR. SUJO MARY VARGHESE Principal-in-charge Mar Thoma College For Women Perumbayoor - 683 542

I, Najiya A. A., do hereby declare that this project report entitled "Dielectric Constant of a Solid and Liquid" is a based on the original work and carried out by me under the Guidance of Dr. Paulose Thomas, Department of Physics, Mar Thoma College for Women, Perumbavoor.

Place: Perumbayoor

Date: 12/4/2022

Declaration

I Durga Gopan hereby declare that this project report entitled "REPORT ON ENERGY AUDIT PROGRAM" has been prepared by us during the year 2022, under the guidance of Dr. Paulose Thomas ,Department Physics, Mar Thoma college for women Perumbavoor.

Place : Perumbavoor

Date: 18/05/2022

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