#### LIE ALGEBRAS

Project work submitted to

#### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirements for the award of the degree

of

#### MASTER SCIENCE IN MATHEMATICS

By

#### ANJANA RHVEENDRAN

REG. NO. 200011014839



#### DEPARTMENT OF MATHEMATICS

### MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)

MAR THOMA COLLEGE FOR MOMEN PERUMBAVOOR (Affiliated to Mahatma Gandhi University)



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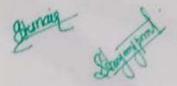
This is to certify that the project entitle "LIE ALGEBRAS" is the bonafide record of the work done by MISS. ANJANA RRVEENDRAN (Reg. NO. 200011014839) in partial fulfillment of the requirement of the award of M.Sc MATHEMATICS Degree from Mahatma Gandhi University, Kottayam during the academic session 2020-2022

Viva Voce Examination held on .26.09.12.022

**Project** Guide

Head of the Department

Personal of Mathematics Men Thema College for Woman Personal States - 583 542



**External Examiner** 

### A study on semigraphs

### Project report submitted to MAHATMA GANDHI UNIVERSITY, KOTTAYAM In partial fulfilment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS

SUBMITTED BY

#### ANJANA VISWAMBHARAN

REG NO. 200011014840



Department of Mathematics MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)

2020-2022

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### MAR THOMA COLLEGE FOR WOMEN

#### PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)



#### CERTIFICATE

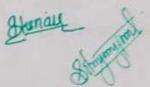
This is to certify that the project entitled "A study on Semigraphs" is the bonafied record of original research work done by Ms. ANJANA
 VISWAMBHARAN (REG NO; 200011014840) in partial fulfilment of the requirement for the award of MSc MATHEMATICS Degree from Mahatma Gandhi University, Kottayam during the academic session 2020-2022.

Viva Voice Examination held on .261.0912022

**Project** Guide

Head of the Department

Serument of Matheman Berumesveer - 883 543



External Examiner

# MATHEMATICAL MODELLING

Project work submitted to

# MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirements for the award of the degree

Of

# MASTER DEGREE IN MATHEMATICS

By

#### ASHA SHAJI

Reg. No: 200011014841



## DEPARTMENT OF MATHEMATICS

# MAR THOMA COLLEGE FOR WOMEN

### PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)

### MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)



CERTIFICATE

This is to certify that the project entitled "MATHEMATICAL MODELLING" is a bonafide record of the work done by Miss. ASHA SHAJI (Reg. no:200011014841), in partial fulfillment of the requirement for the award of M.Sc. MATHEMATICS Degree from Mahatma Gandhi University during the academic session 2020 - 2022.

Viva Voce Examination held on ... 2.5. 09 2022

Stonaus

Shall the

Project Guide Head of the Department

External Examiner

Separtment of Mathematics Se Thema College for Women Impumpation 683 162

#### CPM AND PERT PROJECT MANAGEMENT TECHNIQUES

#### Project Work Submitted to

### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the Requirements for the award of the degree of

#### MASTER OF SCIENCE IN MATHEMATICS

By

ASNA K A

REG. NO. 200011014842



DEPARTMENT OF MATHEMATICS

MARTHOMA COLLEGE FOR WOMEN

PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)

(2020-2022)

# MARTHOMA COLLEGE FOR WOMEN PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)



#### CERTIFICATE

This is to certify that the project entitled " CPM AND PERT PROJECT MANAGEMENT TECHNIQUES" is a bonafide record of the work done by Miss ASNA K A, (REG. NO. 200011014842) in partial fulfillment of the requirement for the award of M.Sc. MATHEMATICS Degree from Mahatma Gandhi University, Kottayam during the academic session2020-2022.

Viva Voce Examination Held On. 26109/2022

Shahlka

Head of the Department

SHALITHA JACOB

External

Project Guide

EMILDA SEBASTIAN

Mana College for Women Perumbayeer - 683 542

### A STUDY ON TRI TOPOLOGICAL SPACES

#### Project Work Submitted to

### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the Requirements for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

By

JEBNA K JALEEL

REG. NO. 200011014844



DEPARTMENT OF MATHEMATICS

MAR THOMA COLLEGE FOR WOMEN

PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)

(2020-2022)

### MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)



#### CERTIFICATE

This is to certify that the project entitled "A STUDY ON TRI TOPOLOGICAL SPACES", is a bonafide record of the work done by Mrs. JEBNA K JALEEL, (REG. NO. 200011014844) in partial fulfillment of the requirement for the award of M.Sc. MATHEMATICS Degree from Mahatma Gandhi University, Kottayam during the academic session 2020-2022.

Viva Voce Examination Held On.....

**Project Guide** 

**KEERTHY KISHORE A** 

Stral And

Head of the Department

Dr. Shalitha Jacob

Perambayeer - \$83.544



External

# **DECISION THEORY**

Project work submitted to MAHATHMA GANDHI UNIVERSITY,KOTTAYAM

In partial fulfillment of the requirements for the award of the degree

Of

### **MASTERS DEGREE IN MATHEMATICS**

BY

NASREEN K B

Reg No: 200011014845



#### **DEPARTMENT OF MATHEMATICS**

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

(Affiliated to Mahathma Gandhi University)

2020-2022

1

#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

(Affilliated to Mahathma Gandhi University)



#### CERTIFICATE

This is to certify that the project entitle "DECISION THEORY" is the bonafide record of the work submitted by Miss. NASREEN K.B(Reg. No.200011014845) in partial fulfillment of the requirement for the award of M.Sc MATHEMATICS degree from Mahathma Gandhi University KOTTAYAM during the academic session 2020-2022.

Viva voce examination held on. 26 09 2022

Project guide

Shalillo

Head of the Department



External examiner

#### SPECTRAL GRAPH THEORY Project work Submitted to

### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfilment of the requirement for the award of the degree

of

#### MASTER OF SCIENCE IN MATHEMATICS

By

#### NAYANA ASOKAN

#### REG. NO. 200011014846



#### DEPARTMENT OF MATHEMATICS

#### MAR THOMA COLLEGE FOR WOMEN

#### PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)

2020-2022

1

#### MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(Affiliated to Mahatma Gandhi University, Kottayam)



#### CERTIFICATE

This is to certify that the project entitled "SPECTRAL GRAPH THEORY" is the bonafide record of the work done by Miss. Nayana Asokan(Reg. No. 200011014846) in partial fulfillment of the requirement for the award of M.Sc. MATHEMATICS Degree from Mahatma Gandhi University, Kottayam during the academic session 2020-2022.

**Project Guide** 

Shulilho

Head of the Department

Construction of Mathematics Fhoma College for Womes College for Womes College for Womes

Manaut P

**External Examiner** 

#### HYPERGRAPH

Project work submitted to

# MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirements for the award of the degree of

# MASTER OF SCIENCE IN MATHEMATICS

### SUBMITTED BY

PRAVEENA P S REG NO.200011014847



# DEPARTMENT OF MATHEMATICS

MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR (Affiliated to Mahatma Gandhi University)

#### MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)



#### CERTIFICATE

This is to certify that this project entitled "HYPERGRAPH" is the bonafide record of the work done by Ms. Praveena PS (Reg No: 200011014847) in partial fulfillment of the requirement for the award of M.sc MATHEMATICS Degree from Mahatma Gandhi University, Kottayam during the academic session 2020-2022

Project Guide Dr. Gigi George

Shalilha

Head of the Department Dr. Shalitha Jacob



External Examiner

### **GRACEFUL GRAPHS**

Project work submitted to

### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirements for the award of the degree

of

### **MASTER OF SCIENCE IN MATHEMATICS**

By

**RAMSEENA P A** 

REG. NO.200011014848



### DEPARTMENT OF MATHEMATICS

### MAR THOMA COLLEGE FOR WOMEN

### PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)

# MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

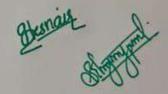
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CERTIFICATE

This is to certify that the project entitile "GRACEFUL GRAPHS" is the bonafide record of the work done by Miss. RAMSEENA P A (Reg.No. 200011014848) in partial fulfillment of the requirement for the award of M.Sc MATHEMATICS Degree from Mahatma Gandhi University, Kottayam during the academic session 2020-2022.

Viva voce Examination held on .. 26. 10.91 2022



**Project Guide** 

Head of the Department Partment of Mathemance Thoma College for Wome Parumbaveer - 683 542

**External Examiner** 

## **COVERING SPACES**

Project submitted to

#### MAHATHMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfilment of the requirements for the award of the Degree of

#### MASTER OF SCIENCE IN MATHEMATICS

by

SHILPA SHAJI REG.NO:200011014849



# DEPARTMENT OF MATHEMATICS MARTHOMA COLLEGE FOR WOMEN PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)

### MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)



#### CERTIFICATE

This is to certify that the project entitled "COVERINGSPACES", submitted by Mrs. Shilpa Shaji in partial fulfilment of the requirements for the award of M.Sc. Degree in Mathematics during the year 2020-2022.

Shilpa Shaji

Viva Voce Examination held on. 26 09 2022

Hisnaus

External Examiner

Project Guide Gopikrishna S Nair

Head of the Department. Dr. Shalitha Jacob

Sheliky

Appartment of Mathematics Fhoma College for Women Manuntaveer - 883 569

### **TRIBONACCI CONVOLUTION**

### TRIANGLE

Project work submitted to

#### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirements for the award of the degree

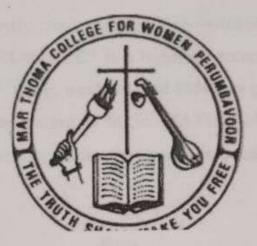
Of

#### MASTER DEGREE IN MATHEMATICS

By

SOYA JOY

Reg. No: 200011014850



#### DEPARTMENT OF MATHEMATICS

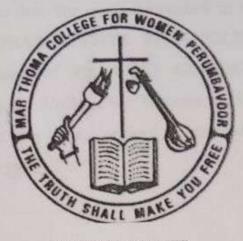
MAR THOMA COLLEGE FOR WOMEN

#### PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)

### MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)

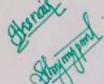


CERTIFICATE

This is to certify that the project entitled "TRIBONACCI CONVOLUTION TRIANGLE" is a bonafide record of the work done by Miss. SOYA JOY (Reg. no:200011014850), in partial fulfillment of the requirement for the award of M.Sc. MATHEMATICS Degree from Mahatma Gandhi University during the academic session 2020 - 2022.

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Head of the Department Separtment of Mathematics the Phoma College for Woods Anumbaveer - \$53 549



External Examiner

#### CENTRALITY MEASURE

Project work submitted to

### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirements for the award of the degree of

### MASTER OF SCIENCE IN MATHEMATICS

By

#### SREELAKSHMI T R

#### REG. NO. 200011014851



### DEPARTMENT OF MATHEMATICS

# MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)

#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)



#### CERTIFICATE

This is to certify that the project entitle " **CENTRALITY MEASURE** "is the bonafide record of the work done by **Miss. SREELAKSHMI T R** (**Reg.No.200011014851**) in partial fulfillment of the requirement for the award of M.Sc. MATHEMATICS Degree from Mahatma Gandhi University, Kottayam during the academic session 2020-2022.

Viva Voce Examination held on ... 26 09 2022

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Head of the Department

Contraction of Mathematics Thoms College for Women Manumbayeer - 683 543 **External Examiner** 

### MYSTERY OF FRACTALS

### Project Work Submitted to

# MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the Requirements for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

By

### SUSAN VARGHESE

REG. NO. 200011014852



DEPARTMENT OF MATHEMATICS

MAR THOMA COLLEGE FOR WOMEN

PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)

(2020-2022)

### MARTHOMA COLLEGE FOR WOMEN PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)



#### CERTIFICATE

This is to certify that the project entitled "MYSTERY OF FRACTALS", is a bonafide record of the work done by Miss SUSAN VARGHESE (REG. NO. 200011014852) in partial fulfillment of the requirement for the award of M.Sc. MATHEMATICS Degree from Mahatma Gandhi University, Kottayam during the academic session 2020-2022.

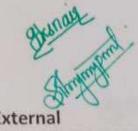
Viva Voce Examination Held On ... 2.609. 2022.

Shulithe Project Guide Head of the Department Extern

SILVEY PAUL

Dr. SHALITHA JACOB

expariment of Mathematics In Thema Conege to: Wenter Permiticaves - 683 549



# A STUDY ON THE INFLUENCE OF COVID 19 ON ONLINE CONSUMER

### PURCHASING BEHAVIOUR AND BUSINESS OPERATION

A dissertation submitted to

### MAHATMA GANDHI UNIVERSITY KOTTAYAM

3

In partial fulfillment of the requirement for the award of

### **BACHELOR OF COMMERCE**

Submitted by

### BASILA P S(190021075616)

#### MEENAKSHI O S(190021075617)

#### NAVYA JOSE(190021075618)

#### NIVYA JOSE(190021075620)

Under the guidance of

Miss.TJ VISHNUPRIYA



### **DEPARTMENT OF COMMERCE**

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

# DEPARTMENT OF COMMERCE MAR THOMA COLLEGE FOR WOMEN

#### PERUMBAVOOR



#### CERTIFICATE

This is to certify that the project entitled "A STUDY ON THE INFLUENCE OF COVID19 ON ONLINE CONSUMER PURCHASING BEHAVIOUR AND BUSINESS OPERATIONS" is a record of research work jointly done by Kumari.BASILA P S,Kumari.MEENAKSHIO S, Kumari.NAVYA JOSE, Kumari.NIVYA JOSE in partial fulfillment of the requirement of the DEGREE OF BACHELOR OF COMMERCE under my supervision and guidance and it is further certified that the project work is not previously used for the award of any other degree, diploma and fellowship or for award in other similar title of recognition.

T.J. Vishn Internal project guide External examiner

Date: 16 05 23

Head of the Department

# DEPARTMENT OF COMMERCE MAR THOMA COLLEGE FOR WOMEN

### PERUMBAVOOR



#### PRINCIPAL'S CERTIFICATE

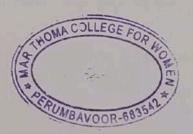
This is to certify that the project entitled "A STUDY ON THE INFLUENCE OF COVID 19 ON ONLINE CONSUMER PURCHASING BEHAVIOUR AND BUSINESS OPERATION"has been completed by Kumari.BASILA P S (190021075616), Kumari. MEENAKSHI O S(190021075617), Kumari. NAVYA JOSE (190021075618),Kumari.NIVYA JOSE (190021075620) under the guidance of Miss.T J VISHNUPRIYA.

Dr. SUJO MARY VARGHESE

PRINCIPAL- IN - CHARGE

3

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



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A STUDY ON AWARENESS AND ATTITUDE OF WORKING WOMEN TOWARDS STOCK MARKET

A dissertation submitted to

# MAHATHMA GANDHI UNIVERSITY KOTTAYAM

In partial fulfillment of the requirement for the award of

### **BACHELOR OF COMMERCE**

Submitted by

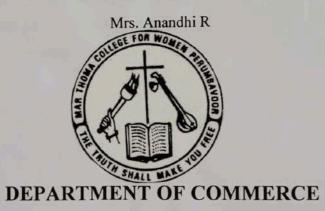
### ASWATHY P.R (190021075600)

### ASWATHY RAJEEVAN (190021075601)

### AYSHA BEEVI C.H (190021075602)

### FARHANA MUHAMMED (190021075603)

Under the guidance of



#### MARTHOMA COLLEGE FOR WOMEN, PERUMBAVOOR

[Type text]

# DEPARTMENT OF COMMERCE MARTHOMA COLLEGE FOR WOMEN

PERUMBAVOOR

### CERTIFICATE

This is to certify that the project entitled "A STUDY ON AWARENESS AND ATTITUDE OF WORKING WOMEN TOWARDS STOCK MARKET" is a record of research work jointly done by KumariASWATHY P.R Kumari.ASWATHY RAJEEVAN,Kumari.AYSHA BEEVI C.H,Kumari FARHANA MUHAMMED in partial fulfillment of the requirement of the DEGREE OF BACHELOR OF COMMERCE under my supervision and guidance and it is further certified that the project work is not previously used for the award of any other degree, diploma and fellowship or for award in other similar titleof recognition.

Anandle . R.

Internal project guide

Head of the Department

External examiner: Date: 16 05 2022



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### DEPARTMENT OF COMMERCE

#### MARTHOMA COLLEGE FOR WOMEN

#### PERUMBAVOOR



**PRINCIPALS CERTIFICATE** 

This is to certify that the project entitled "A STUDY ON AWARENESS AND ATTITUDE OF WORKING WOMEN TOWARDS STOCK MARKET" has been completed by Kumari. ASWATHY P.R(190021075600), Kumari,ASWATHY RAJEEVAN(190021075601)Kumari, AYSHA BEEVI C.H (190021075602),Kumari FARHANA MUHAMMED (190021075603) under the guidance of Mrs.Anandhi R.

**Dr. SUJO MARY VARGESE** 

PRICIPAL

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



# "WORK LIFE AT OFFICE BEFORE AND AFTER COVID-19"

A dissertation submitted to

## MAHATHMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of

#### **BACHLOR OF COMMERCE**

Submitted by

APARNA ELDHOSE(190021075615) AMINA LATHEEF(190021075614) SONA SURESH(190021075612) THARA POULOSE(190021075613)

Under the guidance of

#### Mrs ANANDHI. R



#### **DEPARTMENT OF COMMERCE**

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

2019-2022

#### DEPARTMENT OF COMMERCE

#### MAR THOMA COLLEGE FOR WOMEN

PERUMBAVOOR



#### PRINCIPAL'S CERTIFICATE

This is to certify that the project entitled "WORK LIFE AT OFFICE BEFORE AND AFTER COVID-19", has been completed by kumari. APARNA ELDHOSE(190021075615), kumari. AMINA LATHEEF(190021075614), kumari. SONA SURESH(190021075612), kumari. THARA POULOSE(190021075613) under the guidance of Mrs. Anandhi .R

MARY VARGHESE Th UJO

PRINCIPAL

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



#### DEPARTMENT OF COMMERCE

#### MAR THOMA COLLEGE FOR WOMEN

#### PERUMBAVOOR



#### CERTIFICATE

This is to certify that the project entitlled "WORK LIFE AT OFFICE BEFORE AND AFTER COVID-19" is a record of research work jointly done by kumari. APARNA ELDHOSE, kumari. AMINA LATHEEF, kumari. SONA SURESH, kumari. THARA POULOSE, in partial fulfilment of the requirement of the Degree of Bachlor of Commerce under my supervision and guidance and it is further certified that the project work is not previously used for the award of any other degree, diploma and fellowship or for awarding other similar title of recognition.

Internal Project Guide

Anandhe .R.

Head Of Department

### A STUDY ON RELATIONSHIP BETWEEN INVESTORS PERSONAL ATTRIBUTES AND INVESTMENT PERCEPTIONS TOWARDS MUTUAL FUND INVESTMENT WITH SPECIAL REFERENCE TO WARD 3 IN PERUMBAVOOR MUNCIPALITY

A dissertation submitted to

### MAHATHMA GANDHI UNIVERSITY KOTTAYAM

In partial fulfillment of the requirement for the award of

### **BACHELOR OF COMMERCE**

Submitted by

### SHIFANA C.U(190021075621)

### SIMILU SAJI (190021075622)

### SIMNA ABDUL KAREEM(190021075623)

#### SONA JOY(190021075624)

Under the guidance of

#### Mrs. Reshmi C J



#### DEPARTMENT OF COMMERCE

MARTHOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### **DEPARTMENT OF COMMERCE**

### MARTHOMA COLLEGE FOR WOMEN

### PERUMBAVOOR



**CERTIFICATE** 

This is to certify that the project entitled "A STUDY ON RELATIONSHIP BETWEEN INVESTORS PERSONAL ATTRIBUTES AND INVESTMENT PERCEPTIONS TOWARDS FUND MUTUAL **INVESTEMENT WITH SPECIAL REFERENCE TO WARD** 3 IN PERUMBAVOOR MUNICIPALITY" is a record of research work jointly done by Kumari.SHIFANA C.UKumari.SIMLU SAJI, Kumari.SONA JOY,Kumari SIMNA ABDUL KAREEM in partial fulfillment of the requirement of the DEGREE OF BACHELOR OF COMMERCE under my supervision and guidance and it is further certified that the project work is not previously used for the award of any other degree, diploma and fellowship or for award in other similar title of recognition.

Internal project guide

Resturie C.J. Souther External examiner Date:

Head of the Department

## DEPARTMENT OF COMMERCE

## MARTHOMA COLLEGE FOR WOMEN

### PERUMBAVOOR



#### PRINCIPALS CERTIFICATE

This is to certify that the project entitled" A STUDY ON THE RELATIONSHIP BETWEEN INVESTORS PERSONAL ATTRIBUTES AND INVESTEMT PERCEPTION TOWARDS MUTUAL FUND INVESTMENT WITH SPECIAL REFERANCE TO WARD 3 IN PERUMBAVOOR MUNCIPALITY" has been completed by Kumari. SHIFANA C.U(190021075621), Kumar. SIMILU SAJI(190021075622) Kumari SIMNA ABDUL KAREEM(190021075623), Kumari. SONA JOY(190021075624) under the guidance of Mrs. RESHMI C.J.

Dr. SUJO MARY VARGESE

PRICIPAL

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



A STUDY OF CONSUMER PERCEPTION TOWARDS E-PAYMENT WITH SPECIAL REFERENCE TO GOOGLE PAY IN WARD 17 ,PERUMBAVOOR MUNICIPALITY

A dissertation submitted to

# MAHATHMA GANDHI UNIVERSITY KOTTAYAM

In partial fulfillment of the requirement for the award of

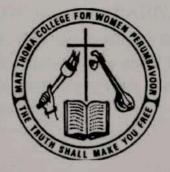
## **BACHELOR OF COMMERCE**

Submitted by

ALFIYA K ALI AJINA MAHIN APARNA SHIVAN ANCY GEORGE (190021075597)
(190021075596)
(190021075599)
(190021075598)

Under the guidance of

Mrs. Saritha N



# DEPARTMENT OF COMMERCE MARTHOMA COLLEGE FOR WOMEN, PERUMBAVOOR 2019-2022

## DEPARTMENT OF COMMERCE

### MARTHOMA COLLEGE FOR WOM



### **CERTIFICATE**

This is to certify that the project entitled "A STUDY OF CONSUMER PERCEPTION TOWARDS E-PAYMENT WITH SPECIAL REFERENCE TO GOOGLE PAY IN WARD 17,PERUMBAVOOR MUNCIPALITY" is arecord of research work jointly done by kumari .ALFIYA K ALI, kumari .AJINA MAHIN, kumari .APARNA SHIVAN, kumari .ANCY GEORGE in partial fulfillment of the requirement of the DEGREE OF BACHELOR OF COMMERCE under my supervision and guidance and it is further certified that the project work is not previously usedfor the award of any other degree, diploma and fellowship or for award in other similar titleof recognition.

Internal project guide

External examiner

Head of thDepartment

Date:

# DEPARTMENT OF COMMERCE MARTHOMA COLLEGE FOR WOMENPERUMBAVOOR



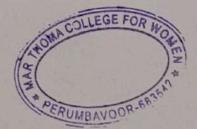
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### **Dr. SUJO MARY VARGESE**

PRINCIPAL

DR. SUJO MARY VARGHESE Principal - In - charge Mar Thoma College For Women Perumbavoor - 683 542



### DETERMINATION OF THE CONTENTS OF SOFT DRINKS AVAILABLE IN THE MARKET

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



Valued

ANUSREE ANIL -190021027292

### **Department of Chemistry**

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR MARCH 2022



**Department of Chemistry** 



# CERTIFICATE

This is to certify that the project work entitled **"DETERMINATION OF THE CONTENTS OF SOFT DRINKS AVAILABLE IN THE MARKET** " done by **ANUSREE ANIL**, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of **Ms. RESHMA MATHEW** Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

Reform Jaus Dr.Rajani Jacob

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Ms. RESHMA MATHEW





### DETERMINATION OF THE CONTENTS OF SOFT DRINKS AVAILABLE IN THE MARKET

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



MANYA MANOJ -190021027301

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**Department of Chemistry** 



# CERTIFICATE

This is to certify that the project work entitled "DETERMINATION OF THE CONTENTS OF SOFT DRINKS AVAILABLE IN THE MARKET " done by MANYA MANOJ, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. RESHMA MATHEW Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

Dr.Rajani Jacob

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Project Guide

Ms. RESHMA MATHEW

### DETERMINATION OF THE CONTENTS OF SOFT DRINKS AVAILABLE IN THE MARKET

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



FATHIMA K Y -190021027296

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# CERTIFICATE

This is to certify that the project work entitled "DETERMINATION OF THE CONTENTS OF SOFT DRINKS AVAILABLE IN THE MARKET " done by FATHIMA K Y, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. RESHMA MATHEW Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

Just Dr.Rajani Jacob

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**Project Guide** 

Ms. RESHMA MATHEW

#### COMPARISON OF ACID CONTENT AND QUALITATIVE CHEMICAL ANALYSIS OF IMPORTANT NUTRIENT IN VARIOUS FRUITS AND VEGETABLES

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



KRIPA ELSA KURIAN -190021027300

#### **Department of Chemistry**

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR MARCH 2022





### **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled "COMPARISON OF ACID CONTENT AND QUALITATIVE CHEMICAL ANALYSIS OF IMPORTANT NUTRIENT IN VARIOUS FRUITS AND VEGETABLES " done by KRIPA ELSA KURIAN, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. RESHMA MATHEW Mar Thoma College For Women, Perumbavoor during the academic year 2019 -2022.

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Forwarded By

Jub Dr.Rajani Jacob

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Ms. RESHMA MATHEW

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## COMPARISON OF ACID CONTENT AND QUALITATIVE CHEMICAL ANALYSIS OF IMPORTANT NUTRIENT IN VARIOUS FRUITS AND VEGETABLES

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



AFLA ALI -190021027288

## **Department of Chemistry**

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR MARCH 2022





**Department of Chemistry** 



# CERTIFICATE

This is to certify that the project work entitled "COMPARISON OF ACID CONTENT AND QUALITATIVE CHEMICAL ANALYSIS OF IMPORTANT NUTRIENT IN VARIOUS FRUITS AND VEGETABLES " done by AFLA ALI, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. RESHMA MATHEW Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

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Forwarded By

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Ms. RESHMA MATHEW

### COMPARATIVE STUDY OF AMOUNT OF ACETIC ACID IN DIFFERENT TYPES OF VINEGAR AND IDENTIFICATION OF ADULTERATION IN DIFFERENT TYPES OF VINEGAR

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



ABEEBA ALI -190021027287

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# CERTIFICATE

This is to certify that the project work entitled "COMPARATIVE STUDY OF AMOUNT ACETIC ACID IN DIFFERENT TYPES OF VINEGAR AND IDENTIFICATION OF ADULTERATION IN DIFFERENT TYPES OF VINEGAR " done by ABEEBA ALI, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. RESHMA MATHEW Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

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**Forwarded By** 

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**Project Guide** 

Ms. RESHMA MATHEW

## COMPARATIVE STUDY OF AMOUNT OF ACETIC ACID IN DIFFERENT TYPES OF VINEGAR AND IDENTIFICATION OF ADULTERATION IN DIFFERENT TYPES OF VINEGAR

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



VINAYA A M -190021027286

## **Department of Chemistry**

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR





**Department of Chemistry** 



# CERTIFICATE

This is to certify that the project work entitled "COMPARATIVE STUDY OF AMOUNT ACETIC ACID IN DIFFERENT TYPES OF VINEGAR AND IDENTIFICATION OF ADULTERATION IN DIFFERENT TYPES OF VINEGAR " done by VINAYA A M, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. RESHMA MATHEW Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

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RUMBAVOO

### **COMPARATIVE STUDY OF AMOUNT OF ACETIC ACID** IN DIFFERENT TYPES OF VINEGAR AND IDENTIFICATION OF ADULTERATION IN DIFFERENT **TYPES OF VINEGAR**

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



ALFIYA ALIYAR -190021027289

Department of Chemistry

Valued

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR MARCH 2022



# **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled "COMPARATIVE STUDY OF AMOUNT ACETIC ACID IN DIFFERENT TYPES OF VINEGAR AND IDENTIFICATION OF ADULTERATION IN DIFFERENT TYPES OF VINEGAR " done by ALFIYA ALIYAR, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. RESHMA MATHEW Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

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## DETERMINATION OF THE CONTENTS OF SOFT DRINKS AVAILABLE IN MARKET

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



NARMADA M -190021027281

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## **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled "DETERMINATION OF THE CONTENTS OF SOFT DRINKS AVAILABLE IN THE MARKET " done by NARMADA M, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. RESHMA MATHEW Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

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# DETERMINATION OF THE CONTENTS OF SOFT DRINKS AVAILABLE IN MARKET

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL PROJECT REPORT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN



MANYA MANOJ -190021027301

Department of Chemistry

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR MARCH 2022







## **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled "DETERMINATION OF THE CONTENTS OF SOFT DRINKS AVAILABLE IN THE MARKET " done by MANYA MANOJ, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. RESHMA MATHEW Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

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ERUMBAN

### DETERMINATION OF CATIONS AND ANIONS PRESENT IN DIFFERENT SAMPLES OF TOOTH PASTES

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



AJUMUNNISA P A -190021027273

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# CERTIFICATE

This is to certify that the project work entitled "DETERMINATION OF CATIONS AND ANIONS PRESENT IN DIFFERENT SAMPLES OF TOOTH PASTES" done by AJUMUNNISA P A, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. AISWARIYA K R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

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### DETERMINATION OF CATIONS AND ANIONS PRESENT IN DIFFERENT SAMPLES OF TOOTH PASTES

#### PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



ASHIYA SHAJI -190021027274

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# CERTIFICATE

This is to certify that the project work entitled "DETERMINATION OF CATIONS AND ANIONS PRESENT IN DIFFERENT SAMPLES OF TOOTH PASTES " done by ASHIYA SHAJI, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. AISWARIYA K R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

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## DETERMINATION OF CATIONS AND ANIONS PRESENT IN **DIFFERENT SAMPLES OF TOOTH PASTES**

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



ROUFATH SHAJI -190021027307

### **Department of Chemistry**

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**Department of Chemistry** 



## **CERTIFICATE**

This is to certify that the project work entitled "DETERMINATION OF CATIONS AND ANIONS PRESENT IN DIFFERENT SAMPLES OF TOOTH PASTES " done by ROUFATH SHAJI, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. AISWARIYA K R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

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**Project Guide** 

Ms. AISWARIYA K R



### A STUDY ON ADULTERANTS IN FOOD

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



#### DONA PATHROSE -190021027278

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UMBANO



### **Department of Chemistry**



# **CERTIFICATE**

This is to certify that the project work entitled "A STUDY ON ADULTERANTS IN FOOD " done by DONA PATHROSE, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. AISWARIYA K R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

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Ms. AISWARIYA K R



### A STUDY ON ADULTERANTS IN FOOD

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



SAHALA KHALID -190021027308

## **Department of Chemistry**

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR MARCH 2022

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**Department of Chemistry** 



# **CERTIFICATE**

This is to certify that the project work entitled "A STUDY ON ADULTERANTS IN FOOD " done by SAHALA KHALID, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. AISWARIYA K R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

**Forwarded By** 

Raferi Jacob

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**Project Guide** 

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Ms. AISWARIYA K R

## A STUDY ON ADULTERANTS IN FOOD

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



SAIFUNISA M A - 190021027305

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This is to certify that the project work entitled "A STUDY ON ADULTERANTS IN FOOD " done by SAIFUNISA M A, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. AISWARIYA K R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

**Forwarded By** 

Lefemi Jacob

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**Project Guide** 

Ms. AISWARIYA K R



#### COMPARISON OF NEUTRALIZING CAPACITIES OF DIFFERENT COMMERCIAL ANTACIDS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



AMRUTHALAKSHMI MOHANAN -190021027291

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### **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled "COMPARISON OF NEUTRALIZING CAPACITIES OF DIFFERENT COMMERCIAL ANTACIDS " done by AMRUTHALAKSHMI MOHANAN, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. AISWARIYA K R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

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## COMPARISON OF NEUTRALIZING CAPACITIES OF DIFFERENT COMMERCIAL ANTACIDS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



FATHIMA SHERIN M A -190021027295

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**Department of Chemistry** 



# CERTIFICATE

This is to certify that the project work entitled "COMPARISON OF NEUTRALIZING CAPACITIES OF DIFFERENT COMMERCIAL ANTACIDS " done by FATHIMA SHERIN M A, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. AISWARIYA K R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

Dr.Rajani

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**Project Guide** 

Ms. AISWARIYA K R



### COMPARISON OF NEUTRALIZING CAPACITIES OF DIFFERENT COMMERCIAL ANTACIDS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



MEENU MOHAN -190021027302

#### **Department of Chemistry**

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR





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# CERTIFICATE

This is to certify that the project work entitled "COMPARISON OF NEUTRALIZING CAPACITIES OF DIFFERENT COMMERCIAL ANTACIDS " done by MEENU MOHAN, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. AISWARIYA K R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

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Ms. AISWARIYA K R

Guest lecturer Dept. of Chemistry Mar Thoma College for, Women Perumbavoor.

LEGEF

MBAYOOR

## DETERMINATION OF ACID VALUES OF DIFFERENT OILS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



ASMA YOOSAF - 190021027293

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This is to certify that the project work entitled "DETERMINATION OF ACID VALUES OF DIFFERENT OILS "done by ASMA YOOSAF, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Dr.Rakhi R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

**Forwarded By** 

Dr.Rajani Jacob

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**Project Guide** 

Dr.Rakhi R



#### A STUDY ON VARIOUS CHEMICAL FACTORS AFFECTING TEA FLAVOURS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



NIVEDITHA A K -190021027304

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# CERTIFICATE

This is to certify that the project work entitled **"A STUDY ON VARIOUS CHEMICAL FACTORS AFFECTING TEA FLAVOURS"** done by **NIVEDITHA A K**, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of **Ms. ANEETTA VARGHESE** Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

Porilaut Dr.Rajani Jacob

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Ms. Aneetta Varghese

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# ANALYSIS OF OILS: DETERMINATIONOF CHEMICAL CONSTANTS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



**REMEESA PARVIN - 190021027306** 

#### **Department of Chemistry**

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR





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# CERTIFICATE

This is to certify that the project work entitled "ANALYSIS OF OILS: DETERMINATION OF CHEMICAL CONSTANTS " done by Ms.REMEESA PARVIN, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. ANEETTA VARGHESE Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

**Forwarded By** 

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COLLEGE FOR

# ANALYSIS OF OILS: DETERMINATIONOF CHEMICAL CONSTANTS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



VICTORIYA SELVI J -190021027311

#### **Department of Chemistry**

### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR





**Department of Chemistry** 



# CERTIFICATE

This is to certify that the project work entitled "ANALYSIS OF OILS: DETERMINATION OF CHEMICAL CONSTANTS " done by VICTORIYA SELVI J, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. ANEETTA VARGHESE Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

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Robini Jacob Dr.Rajahi Jacob

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Ms. Aneetta Varghese



# ANALYSIS OF OILS: DETERMINATIONOF CHEMICAL CONSTANTS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



SOWMIYA K -190021027312

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### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR





#### **Department of Chemistry**



## CERTIFICATE

This is to certify that the project work entitled **"ANALYSIS OF OILS: DETERMINATION OF CHEMICAL CONSTANTS** " done by **SOWMIYA K**, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of **Ms**. **ANEETTA VARGHESE** Mar Thoma College For Women, Perumbavoor during the academic year 2019 -2022.

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Dr.Rajani Jacob

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Ms. Aneetta Varghese

Guest lecturer Dept. of Chemistry Mar Thoma College for, Women Perumbavoor.

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### A STUDY ON VARIOUS CHEMICAL FACTORS AFFECTING TEA FLAVOURS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



PARVATHY M A -190021027305

#### **Department of Chemistry**





#### **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled **"A STUDY ON VARIOUS CHEMICAL FACTORS AFFECTING TEA FLAVOURS "** done by **PARVATHY M A**, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of **Ms. ANEETTA VARGHESE** Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

**Forwarded By** 

i Jacob

Dr.Rajani Jacob

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**Project Guide** 

Ms. Aneetta Varghese

## A STUDY ON VARIOUS CHEMICAL FACTORS AFFECTING TEA FLAVOURS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



MINCIYA UMMAR -190021027303

**Department of Chemistry** 

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR





**Department of Chemistry** 



# CERTIFICATE

This is to certify that the project work entitled "A STUDY ON VARIOUS CHEMICAL FACTORS AFFECTING TEA FLAVOURS " done by MINCIYA UMMAR, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. ANEETTA VARGHESE Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor.



**Project Guide** 

Ms. Aneetta Varghese

Guest lecturer Dept. of Chemistry Mar Thoma College for, Women Perumbavoor.

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## PHYTOCHEMICAL ANALYSIS AND EXTRACTION OF TRIMYRISTIN FROM MYRISTICA FRAGRANS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



AATHIRA A KUMAR -190021027271

## **Department of Chemistry**

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR





### **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled "PHYTOCHEMICAL ANALYSIS AND EXTRACTION OF TRIMYRISTIN FROM MYRISTICA FRAGRANS" done by AATHIRA A KUMAR, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. ANEETTA VARGHESE Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

#### Forwarded By

Lafani Jacob Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor.



#### **Project Guide**

#### Ms. Aneetta Varghese

UMBAVOO

## PHYTOCHEMICAL ANALYSIS AND EXTRACTION OF TRIMYRISTIN FROM MYRISTICA FRAGRANS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



ABHIRAMI T A -190021027272

# Department of Chemistry





## **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled "PHYTOCHEMICAL ANALYSIS AND EXTRACTION OF TRIMYRISTIN FROM MYRISTICA FRAGRANS " done by ABHIRAMI T A, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. ANEETTA VARGHESE Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

ERUMBAYOO

Forwarded By

Jacob Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor.

Project Guide

Ms. Aneetta Varghese

## PHYTOCHEMICAL ANALYSIS AND EXTRACTION OF TRIMYRISTIN FROM MYRISTICA FRAGRANS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



ASWATHI K S -190021027276

## Department of Chemistry

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# CERTIFICATE

This is to certify that the project work entitled "PHYTOCHEMICAL ANALYSIS AND EXTRACTION OF TRIMYRISTIN FROM MYRISTICA FRAGRANS " done by ASWATHI K S, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. ANEETTA VARGHESE Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

Romi Laus

Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor.

**Project Guide** 

Ms. Aneetta Varghese

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#### DETERMINATION OF ACID VALUES OF DIFFERENT OILS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



RINSA K K - 190021027284

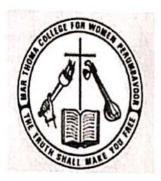
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### **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled **"DETERMINATION OF ACID VALUES OF DIFFERENT OILS"** done by **RINSA K K**, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of **Dr.Rakhi R** Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor.



**Project Guide** 



Dr.Rakhi R



### DETERMINATION OF ACID VALUES OF DIFFERENT OILS

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



#### THASNEEM ABDUL RASHEED- 190021027310

### **Department of Chemistry**

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

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#### **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled "DETERMINATION OF ACID VALUES OF DIFFERENT OILS" done by THASNEEM ABDUL RASHEED, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Dr.Rakhi R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

Edani Jaw

Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbayoor.



**Project Guide** 

Dr.Rakhi R



#### PREPARATION OF RAYON FROM FILTER PAPER

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



ATHEENA SEBASTIAN - 190021027277

## **Department of Chemistry**

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#### **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled "PREPARATION OF RAYON FROM FILTER PAPER" done by ATHEENA SEBASTIAN, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Dr.Rakhi R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

**Forwarded By** 

Refarictaus

Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor.



**Project Guide** 

Dr.Rakhi R



### **PREPARATION OF RAYON FROM FILTER PAPER**

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



MARIYA VINCENT - 190021027279

#### **Department of Chemistry**

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#### **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled **"PREPARATION OF RAYON FROM FILTER PAPER"** done by **MARIYA VINCENT**, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of **Dr.Rakhi R** Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

Reformi Jacob

Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor.



**Project Guide** 

Dr.Rakhi R



## PREPARATION OF RAYON FROM FILTER PAPER

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



KADEEJA C S - 190021027298

#### **Department of Chemistry**



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## **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled **"PREPARATION OF RAYON FROM FILTER PAPER**" done by **KADEEJA C S**, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of **Dr.Rakhi R** Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

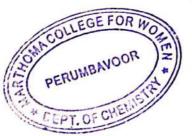
Rafori Jacob Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor.

**Project Guide** 

Dr.Rakhi R

Guest lecturer Dept. of Chemistry Mar Thoma College for, Women Perumbavoor.





## QUALITATIVE CHEMICAL ANALYSIS OF IMPORTANT NUTRIENTS FROM SELECTED FRUITS AND VEGETABLES

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



## FATHIMA SAFRIN P A- 190021027295

## Department of Chemistry

# MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

## **MARCH 2022**



Valued

## **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled "QUALITATIVE CHEMICAL ANALYSIS OF IMPORTANT NUTRIENTS FROM SELECTED FRUITS AND VEGETABLES " done by FATHIMA SAFRIN P A, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Dr.Rakhi R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

PERUMBANOO

Forwarded By

Jomi Jawb

Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor. **Project Guide** 

Dr.Rakhi R

Guest lecturer Dept. of Chemistry Mar Thoma College for, Women Perumbavoor.



## QUALITATIVE CHEMICAL ANALYSIS OF IMPORTANT NUTRIENTS FROM SELECTED FRUITS AND VEGETABLES

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



KHADEEJAMOL P A - 190021027299

## **Department of Chemistry**

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR MARCH 2022



Valued

**Department of Chemistry** 



# CERTIFICATE

This is to certify that the project work entitled "QUALITATIVE CHEMICAL ANALYSIS OF IMPORTANT NUTRIENTS FROM SELECTED FRUITS AND VEGETABLES " done by KHADEEJAMOL P A, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Dr.Rakhi R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

MBAVOOR

Forwarded By

Dr:Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor. **Project Guide** 

Dr.Rakhi R

Guest lecturer Dept. of Chemistry Mar Thoma College for, Women Perumbavoor.

JAIBAV00

## QUALITATIVE CHEMICAL ANALYSIS OF IMPORTANT NUTRIENTS FROM SELECTED FRUITS AND VEGETABLES

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



NURIAHAN PJ - 190021027282

## Department of Chemistry

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR MARCH 2022



**Department of Chemistry** 



# CERTIFICATE

This is to certify that the project work entitled "QUALITATIVE CHEMICAL ANALYSIS OF IMPORTANT NUTRIENTS FROM SELECTED FRUITS AND VEGETABLES " done by NURJAHAN P J, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Dr.Rakhi R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

UMBAVOOI

Forwarded By

miJart

Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor. **Project Guide** 

Dr.Rakhi R

Guest lecturer Dept. of Chemistry Mar Thoma College for, Women Perumbavoor.



## ANALYSIS OF HONEY

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



PARVATHY VENU -190021027283

## **Department of Chemistry**

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR MARCH 2022



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Department of Chemistry



# CERTIFICATE

This is to certify that the project work entitled "ANALYSIS OF HONEY" done by PARVATHY VENU, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Dr.Rakhi R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

ERUMBAVOOR

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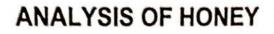
Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor. Project Guide

Dr.Rakhi R

Guest lecturer Dept. of Chemistry Mar Thoma College for, Women Perumbavoor.

UMBAVOOR



## PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



SUMAYYA S ALI -190021027309

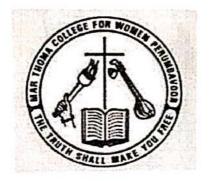
# Department of Chemistry

# MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR MARCH 2022



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**Department of Chemistry** 



# CERTIFICATE

This is to certify that the project work entitled "ANALYSIS OF HONEY" done by, SUMAYYA S ALI submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Dr.Rakhi R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

Reformi Jacob Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor. **Project Guide** 

Dr.Rakhi R

Guest lecturer Dept. of Chemistry Mar Thoma College for, Women Perumbavoor.





# ANALYSIS OF HONEY

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



JENNET WILSON -190021027297

## **Department of Chemistry**

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR MARCH 2022



Valued

## **Department of Chemistry**





This is to certify that the project work entitled **"ANALYSIS OF HONEY"** done by JENNET WILSON, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Dr.Rakhi R Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

RUMBAVOOI

Forwarded By

Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor. **Project Guide** 

Dr.Rakhi R

Guest lecturer Dept. of Chemistry Mar Thoma College for, Women Perumbavoor.

## ANALYSIS OF HONEY

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



NADHIYA KOCHUMON - 190021027280

# Department of Chemistry

# MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR MARCH 2022



Valued Jos

# **Department of Chemistry**



# CERTIFICATE

This is to certify that the project work entitled **"ANALYSIS OF HONEY"** done by **NADHIYA KOCHUMON**, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of **Dr.Rakhi R** Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

Forwarded By

Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor.



**Project Guide** 

Dr.Rakhi R

Guest lecturer Dept. of Chemistry Mar Thoma College for, Women Perumbavoor.



## COMPARISON OF ACID CONTENT AND QUALITATIVE CHEMICAL ANALYSIS OF IMPORTANT NUTRIENT IN VARIOUS FRUITS AND VEGETABLES

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR SCIENCE IN CHEMISTRY.



ALINSHA ALIYAR -190021027290

# Department of Chemistry

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR MARCH 2022



**Department of Chemistry** 



# CERTIFICATE

This is to certify that the project work entitled "COMPARISON OF ACID CONTENT AND QUALITATIVE CHEMICAL ANALYSIS OF IMPORTANT NUTRIENT IN VARIOUS FRUITS AND VEGETABLES " done by ALINSHA ALIYAR, submitted to Mahatma Gandhi University in partial fulfillment for the degree of Bachelor of Science in Chemistry under the guidance of Ms. RESHMA MATHEW Mar Thoma College For Women, Perumbavoor during the academic year 2019 - 2022.

UMBANOC

Forwarded By

Dr.Rajani Jacob

Head of Department In charge Dept. of Chemistry Mar Thoma College for Women, Perumbavoor. **Project Guide** 

Ms. RESHMA MATHEW

Guest lecturer Dept. of Chemistry Mar Thoma College for, Women Perumbavoor.

IFGE

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# FINITE AUTOMATA AND LANGUAGES

Project Work Submitted to

# MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of requirement for the degree of

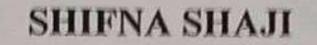
# **B.Sc. MATHEMATICS**

BY ANUCHANDRA SANTHOSH

STELLA MARIYA ROY

190021035894

190021035902

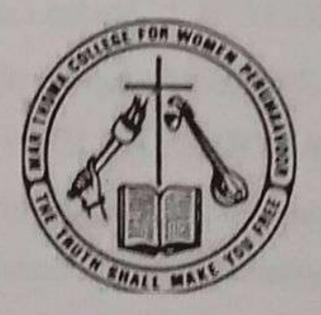


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# **DEPARTMENT OF MATHEMATICS**

# MAR THOMA COLLEGE FOR WOMEN

# PERUMBAVOOR

(Affiliated to Mahatma Gandhi University, Kottayam)

2019-2022

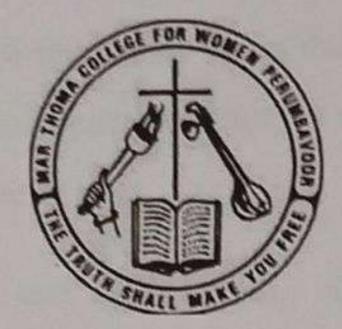


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# PERUMBAVOOR

# (Affiliated to Mahatma Gandhi University, Kottayam)



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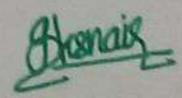
This is to certify that the project entitled "FINITE AUTOMATA AND LANGUAGES" is the bona-fide record of the work done by ANUCHANDRA SANTHOSH(190021035894), STELLA MARIYA ROY (190021035902) and SHIFNA SHAJI (190021035912) in partial fulfillment of the requirement for the award of B.Sc. MATHEMATICS Degree from Mahatma Gandhi University, Kottayam during the academic year 2019-2022.

**Project Guide** 

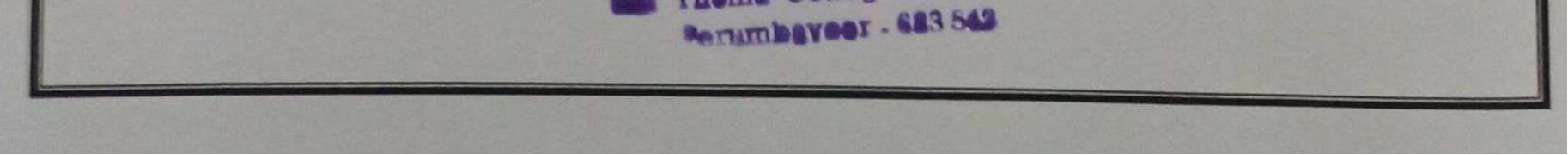
Dr. Gigi George

**Head of Department** 

Dr. Gigi George



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# TOPOLOGY

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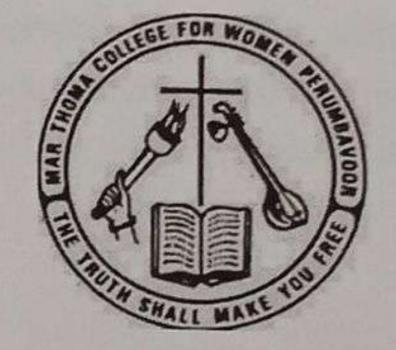
In partial fulfillment of Requirement for the Degree of

**B.Sc. MATHEMATICS** 

BY

ANJANA P J 190021035893 FATHIMA ABDHUL AZEEZ 190021035908

FATHIMA MOHAMMED 190021035909

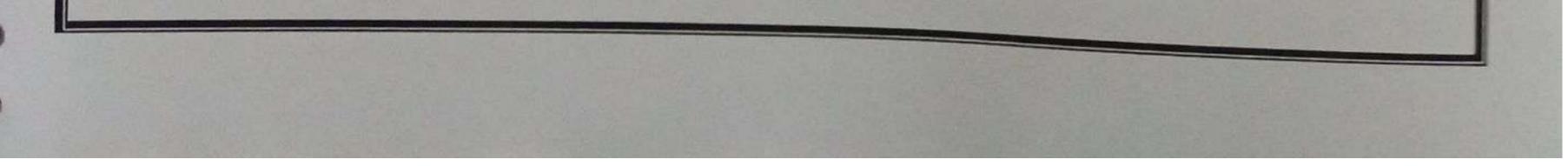


# **DEPARTMENT OF MATHEMATICS**

# MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

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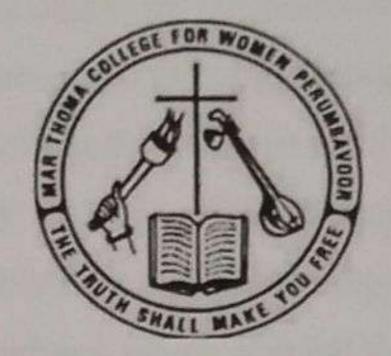
# 2019-2022



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# DEPARTMENT OF MATHEMATICS



# CERTIFICATE

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Viva Voice Examination held on....17 05 2022

Project Guide

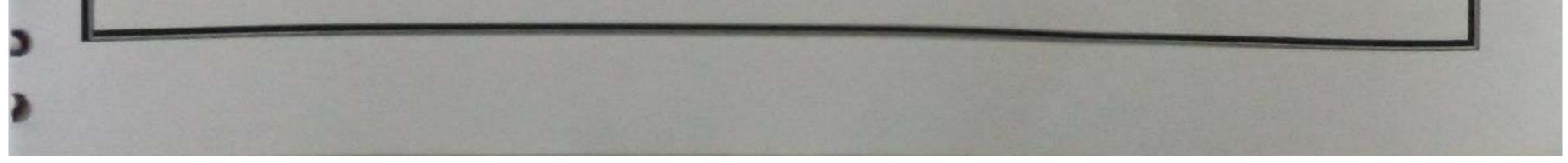
Ms. Silvey Paul

Head of the Department

External

Dr. Gigi George Mainemians Thoma College for Wome Merumbayser - 683 548

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# MATCHINGS AND FACTORS

Project Work Submitted to

# MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of requirement for the degree of

# **B.Sc. MATHEMATICS**

By

BHADRA SASIDHARAN SAIEETHA T. J

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190021035906 190021035900

FATHIMA ALIYA SALIM

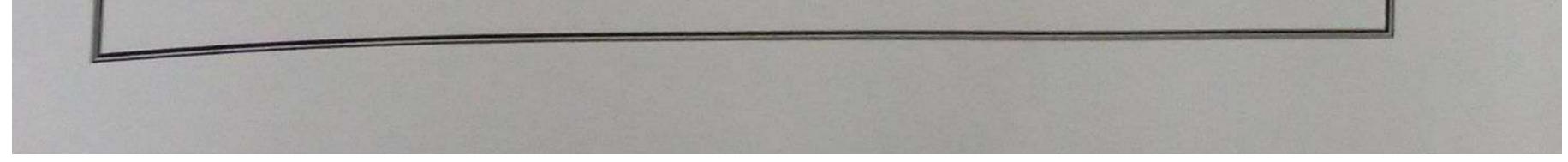
190021035896



# DEPARTMENT OF MATHEMATICS MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

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2019-2022



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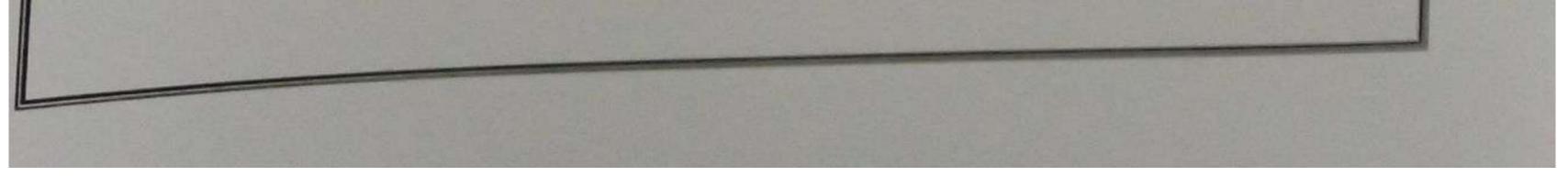
This is to certify that the project entitled "MATCHINGS AND FACTORS " is the Bonafide record of the work done by BHADRA SASIDHARAN (190021035906), SAIEETHA T. J (190021035900) and FATHIMA ALIYA SALIM (190021035896) in Partial fulfillment of the requirement for the award of B.Sc. MATHEMATICS Degree from Mahatma Gandhi University, Kottayam during the academic year 2019-2022.

Viva Voice Examination Held On ...17.105. 12022

Project Guide Asnais Mr. Gopikrishna S Nair

Head of Department Dr. Gigi George separtment of Mathematics Thoma College for Women Perumbayeer - 683 544

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(2019-2022)

# PERUMBAVOOR



ALEESHA RAIHAN M. A - 190021035890 PUNYA LALU - 190021035898 DHANYA - 190021035907

MYSTERY OF KNOTS

Project Work Submitted to

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the Requirements for the Degree

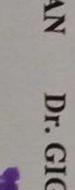
ofB.Sc. MATHEMATICS

By

DEPARTMENT OF MATHEMATICS

MARTHOMA COLLEGE FOR WOMEN



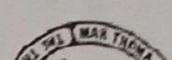


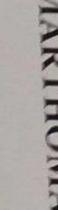
EMILDA SEBASTIAN

Head of

Project Guide

2019-2022. MATHEMATICS Degree from Mahatma Gandhi University, Kottayam during the academic session DHANYA - 190021035907 in partial work done by ALEESHA RAIHAN M. A - 190021035890, PUNYA LALU - 190021035898, This is to certify that the project entitled □MYSTERY OF KNOTS□ is the bonafide record of the fulfillment of the requirement for the award of B.Sc.





# MARTHOMA COLLEGE FOR WOMEN

# PERUMBAVOOR

(Affiliated to Mahatma Gandhi University)



# CERTIFICATE

Viva Voce Examination Held On...17.1.051.2022 Dr. GIGI GEORGE Thoma College for Women f the Department partment of Mathematics Anumbeveer - 683 542 External Alamain L



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(Affiliated to Mahatma Gandhi University, Kottayam)

# MAR THOMA COLLEGE FOR WOMEN DEPARTMENT OF MATHEMATICS



HANNATH E K

**ASWATHI RANI** 

ANASWARA ASHOK P

# B.Sc. M **IATHEMATICS**

# MAHATMA GANDHI UNIVERSITY, KOTTAYAM

Project Work Submitted to

# APPLICATION OF MATHEMATICS IN VARIOUS FIELDS

In partial fulfillment of requirement for the degree of

ВΥ

190021035891

190021035905

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# PERUMBAVOOR

# 19-2022



Dr. Gigi George

Project Guide

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Mahatma Gandhi University, Kottayam during the academic year 2019-2022. of the requirement for the award of B.Sc. MATHEMATICS Degree from (190021035905) and HANNATH E K(190021035910) in partial fulfillment work done by ANASWARA ASHOK P (190021035891), ASWATHI RANI MATHEMATICS IN VARIOUS FIELDS" is the bona-fide record of the This is to certify that the project entitled "APPLICATION OF





# MAR THOMA COLLEGE FOR WOMEN

# PERUMBAYOOR

(Affiliated to Mahatma Gandhi University, Kottayam)

CERTIFICATE

Viva Voice Examination Held On ...I7.105.12022...

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Head of Department

Dr. Gigi George Parumbaveer - 048 84 E

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# 2019 - 2022

(Affiliated to Mahatma Gandhi University, Kottayam)

MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR



NEHA JOY SARA MOL SAJAN RASEENA KAREEM

**B.Sc.MA** 

Project Work Submitted to

# LATTICES AND BOOLEAN ALGEBRA

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of requirement for the degree of

# THEMATICS

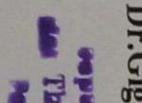
BY

190021035899

190021035897 190021035901

# DEPARTMENT OF MATHEMATICS





Project Guide ghamait Mr. Gopikrishnan Viva Voice Examination Held On.17.195.1.2022... Head of

Department

academic year 2019-2022. MATHEMATICS Degree from Mahatma Gandhi University, Kottayam during the (190021035897) in partial fulfillment of the requirement for the award of B.Sc. (190021035899), SARA MOL SAJAN (190021035901), and NEHA JOY ALGEBRAS" is the bona-fide record of the work done by RASEENA KAREEM This is to certify that the project entitled "LATTICES AND BOOLEAN

# CE



# MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(Affiliated to Mahatma Gandhi University, Kottayam)

# RTIFICATE

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Dr.Gigi George Thema College for Weller Arumiaeveer - 683 548



(Affiliated to Mahatma Gandhi University,Kottayam) 2019-2022

PERUMBAVOOR

MAR THOMA COLLEGE FOR WOMEN



STEFY POULOSE

FARSEENA .N.M

ANITTA SHOJI

# APPLICATION OF MATRICES

Project Work Submitted to

# MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In Partial Fulfillmet of Requirement for the Degree of

# **B.Sc.MATHEMATICS**

BY

-190021035904

-190021035895

-190021035913

# DEPARTMENT OF MATHEMATICS

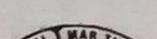


# Ms. Keerthy Kishore A Dr.

Project Guide

Kottayam during the academic year 2019-2022. requirement for the award of B.Sc. MATHEMATICS Degree from Mahatma Gandhi University, (190021035895) and STEFY POULOSE (190021035913) in partial fulfillment of the record of the work done by ANITTA SHOJI (190021035904) , This is to certify that the project entitled " APPLICATION OF MATRICES" is the bona-fide FARSEENA.N.M





# MAR THOMA COLLEGE FOR WOMEN

# PERUMBAVOOR

(Affiliated to Mahatma Gandhi University,Kottayam)



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Gigi George Paper of Mainchister Thema College Ior Wome Penumbeves - 883 542



# MAR THOMA

# DEPARTMENT OF MATHEMATICS

NAJUMA YOUSAF ANGEL ELIZEBETH AKHILA ANN ZACHARIAH

# **ULAM SPIRAL**

Project Work Submitted to

# MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of requirement for the degree of

# **B.Sc. MATHEMATICS**

BY

190021035892

190021035911

190021035903



# COLLEGE FOR WOMEN

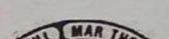
# PERUMBAVOOR

(Affiliated to Mahatma Gandhi University, Kottayam)

# 2019 - 2022



MAR THOMA





2019 - 2022. Degree from Mahatma Gandhi University, Kottayam during the academic year in partial fulfillment of the requirement for the award of B.Sc. MATHEMATICS record of the work done by ANGEL ELIZEBETH (190021035892), AKHILA ANN ZACHARIAH (190021035903) and NAJUMA YOUSAF (190021035911) This is to certify that the project entitled "ULAM SPIRAL" is the bona-fide



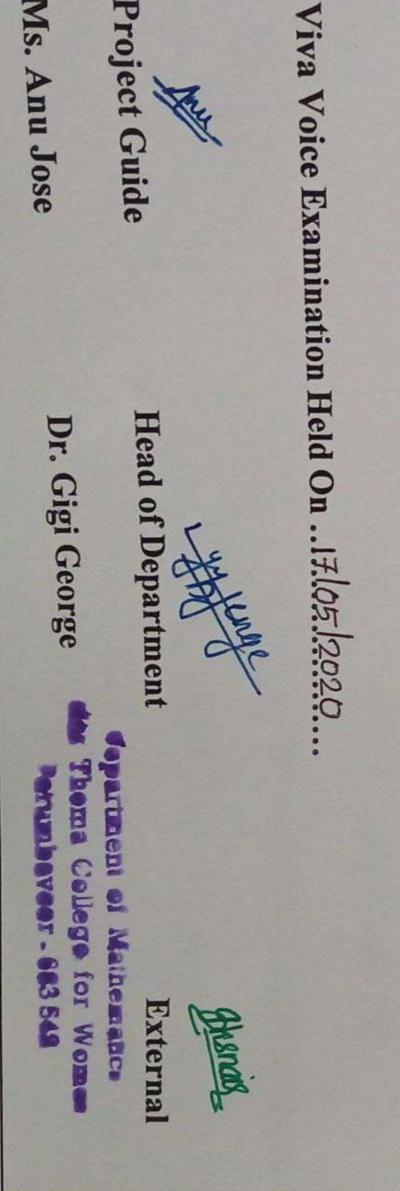
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# PERUMBAVOOR

(Affiliated to Mahatma Gandhi University, Kottayam)



# CERTIFICATE



Project Guide

Ms. Anu Jose



SARA MOL SAJAN NEHA JOY RASEENA KAREEM

LATTICES Project Work Submitted to

# AND BOOLEAN ALGEBRA

# MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of requirement for the degree of

# **B.Sc.MATHEMATICS**

ВУ

190021035899

190021035897 190021035901



# DEPARTMENT OF MATHEMATICS

MAR THOMA COLLEGE FOR WOMEN PERUMBAYOOR

(Affiliated to Mahatma Gandhi University, Kottayam)

2019 - 2022



Mr. Gopikrishnan Viva Voice Examination Held On...J.7/25/2022... **Head of Department** Dr.Gigi George ar Thema College for Went separtment of Mathematics Serunibaveer - 487 784 External Alternaus

academic year 2019-2022. MATHEMATICS Degree from (190021035897) in partial fulfillment of the requirement for the award of B.Sc. (190021035899), SARA MOL ALGEBRAS" is the bona-fide This is to certify that the project entitled "LATTICES AND BOOLEAN record of the work done by RASEENA KAREEM SAJAN (190021035901), and NEHA JOY Mahatma Gandhi University, Kottayam during the

# CERTIFICATE

MAR THOMA

# COLLEGE FOR WOMEN

# PERUMBAVOOR

(Affiliated to Mahatma Gandhi University, Kottayam)





ANASWARA ASHOK P

HANNATH E K

**ASWATHI RANI** 

# APPLICATION OF MATHEMATICS IN VARIOUS FIELDS

Project Work Submitted to

# MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of requirement for the degree of

# **B.Sc. MATHEMATICS**

ВУ

190021035891

190021035905

190021035910



# DEPARTMENT OF MATHEMATICS

# MAR THOMA COLLEGE FOR WOMEN

# PERUMBAVOOR

(Affiliated to Mahatma Gandhi University, Kottayam)

2019-2022

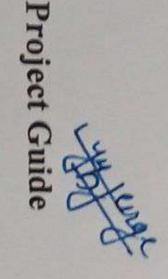
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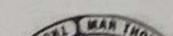
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Dr. Gigi George



Viva Voice Examination Held On ... IF. 105.1.2022.

Mahatma Gandhi University, Kottayam during the academic year 2019-2022. of the requirement for the award of B.Sc. MATHEMATICS Degree from (190021035905) and HANNATH E K(190021035910) in partial fulfillment work done by ANASWARA ASHOK P (190021035891), ASWATHI RANI MATHEMATICS IN VARIOUS FIELDS" is the bona-fide record of the This is to certify that the project entitled "APPLICATION OF



MAR THOMA

# COLLEGE FOR WOMEN

## PERUMBAVOOR

(Affiliated to Mahatma Gandhi University, Kottayam)



### CERTIFICATE

Head of Department Dr. Gigi George ospartment of Mathemanue Thems College for Wome Set 289 - 100ABB Barline Ahaman's External



### THENMALA ECOTOURISM AND COMMUNITY EMPOWERMENT

### THENMALA ECOTOURISM AND COMMUNITY EMPOWERMENT

Submitted to the

### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of the degree

**B.Voc Tourism and Hospitality Management** 

2019-2022

Submitted by

FITHA MOL R.N

Reg No: 190041001898

Under the supervision of

Mr. Sreekumar N

Ms. Treesa Maria Mathew

**Faculty Guides** 



B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### DEPARTMENT OF B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### CERTIFICATE

This is to certify that the project report entitled "Study of cultural tourism with special reference to Kochi" is the Bonafide work carried out Ms.SOLY VARGHESE (Reg No: 190041001925) under my guidance and supervision during 2019-2022, in partial fulfillment of the requirement for the award of degree of B.Voc Tourism and Hospitality Management under the faculty of B.Voc of the Mahatma Gandhi University, Kottayam during the academic session 2019 – 2022.

Viva Voice Examination Held On .....



Project Guide

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Internal Examiner

External Examine

2

### CULTURAL TOURISM WITH SPECIAL

### **REFERENCE TO KOCHI**

Submitted to the

### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of the degree

B.Voc Tourism and Hospitality Management

Submitted by

### SOLY VARGHESE

Reg No:190041001925

Under the supervision of

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Ms. Treesa Maria Mathew

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B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### DEPARTMENT OF B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN

PERUMBAVOOR

### CERTIFICATE

This is to certify that the Project report entitled "Backwater Tourism with special reference to Kumarakom" submitted to the Mahatma Gandhi University by SREELAKSHMI S RAJ in partial fulfillment of the requirement for the award of the degree of B.Voc Tourism and Hospitality Management is a bonafide work carried out under my supervision and guidance.

Viva Voce Examination Held On .....



HOLMONDA

Internal Examiner

External Exan

### BACKWATER TOURISM WITH SPECIAL REFERENCE TO KUMARAKOM

Submitted to the

### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of the degree

### **B.Voc Tourism and Hospitality Management**

Submitted by

SREELAKSHMI S RAJ

Reg No: 190041001926

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Ms. Treesa Maria Mathew

**Faculty guides** 



### **B.VOC TOURISM AND HOSPITALITY MANAGEMENT**

### MAR THOMA COLLEGE FOR WOMEN

### PERUMBAVOOR

### Department of B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

### CERTIFICATE

This is to certify that the Project report entitled "Desert tourism special reference to Thar Desert" submitted to the Mahatma Gandhi University by FATHIMATHU SUHARA K T in partial fulfillment of the requirement for the award of degree of B. Voc Tourism and Hospitality Management is a bonafide work carried out under my supervision and guidance.

Viva Voce Examination Held On .....

Project Guide

**External Examiner** 

Internal Examin

### "DESERT TOURISM WITH SPECIAL REFERENCE TO THAR DESERT"

Submitted to the

### MAHATMA GANDHI UNIVERSITY KOTTAYAM

In partial fulfillment of the requirement for the award of degree of

### B. Voc Tourism and Hospitality Management

2019-2022

Submitted by

### FATHIMATHU SUHARA K T

### Reg no: 190041001908

Under the supervision of

Mr. Sreekumar N

### Ms. Treesa Maria Mathew

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DEPARTMENT OF B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

1

DESERT TOURISM WITH SPECIAL REFERENCE TO THAR DESERT

### "DESERT TOURISM WITH SPECIAL REFERENCE TO THAR DESERT"

Submitted to the

### MAHATMA GANDHI UNIVERSITY KOTTAYAM

In partial fulfillment of the requirement for the award of degree of

### B. Voc Tourism and Hospitality Management

2019-2022

Submitted by

### FATHIMATHU SUHARA K T

### Reg no: 190041001908

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Mr. Sreekumar N

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DEPARTMENT OF B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

### DEPARTMENT OF B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

### **CERTIFICATE**

This is to certify that the Project report entitled "Village Tourism with special reference to Kumbalangi" submitted to the Mahatma Gandhi University by ATHIRA P R in partial fulfillment of the requirement for the award of the degree of B.Voc Tourism and Hospitality Management is a bonafide work carriedout under my supervision and guidance.

Viva Voice Examination Held On:

06/29 Internal Examiner

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Submitted by

ATMIRA P.R.

Reg No: 190041003966

Warder the supervision of

Mr. Sesskamar N

Mo. Treesa Maria Mathew

Faculty guides



B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN

PERUMBAVOOR

MAR THOMA COLLEGE FOER WOMEN PERUMBANOOR

### DEPARTMENT OF B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### **CERTIFICATE**

This is to certify that the project report entitled –Study of cultural tourism with special reference to Kochillis the Bonafide work carried out Ms PARVATHI V S (Reg No:190041001921) under my guidance and supervision during 2019-2022, in partial fulfillment of the requirement for the award of degree of B.Voc Tourism and Hospitality Management under the faculty of B.Voc of the Mahatma Gandhi University, Kottayam during the academic session 2019 - 2022.

Viva Voice Examination Held On .....

**Project Guide** 

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**External Examiner** 

### CULTURAL TOURISM WITH SPECIAL

### **REFERENCE TO KOCHI**

Submitted to the

### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of the degree

**B.Voc Tourism and Hospitality Management** 

Submitted by

PARVATHI V S

Reg No:190041001921

Under the supervision of

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Ms. Treesa Maria Mathew

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B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### DEPARTMENT OF B.VOC

### TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN

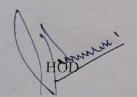
### PERUMBAVOOR

### CERTIFICATE

This is to certify that the Project report entitled "**Backwater Tourism with special reference to Kumarakom**" submitted to the Mahatma Gandhi University by VARSHA RAMAKRISHNAN in partial fulfillment of the requirement for the award of the degree of B.Voc Tourism and Hospitality Management is a bonafide work carried out under my supervision and guidance.

Viva Voce Examination Held On .....

Project Guide



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External Examiner

### BACKWATER TOURISM WITH SPECIAL REFERENCE TO KUMARAKOM

Submitted to the

### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of the degree

**B.Voc Tourism and Hospitality Management** 

Submitted by

### VARSHA RAMAKRISHNAN

Reg No: 190041001929

Under the supervision of

Mr. Sreekumar N

Ms. Treesa Maria Mathew

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### **B.VOC TOURISM AND HOSPITALITY MANAGEMENT**

MAR THOMA COLLEGE FOR WOMEN

PERUMBAVOOR

### PILGRIM TOURISM WITH SPECIAL REFERENCES TO MALAYATTOOR

### DEPARTMENT OF B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

### CERTIFICATE

This is to certify that the project report entitled "Study of Pilgrim tourism with special reference to Malayattor" is the Bonafide work carried out Ms. NESRIN NAZEER (Reg No: 190041001919) under my guidance and supervision during 2019-2022, in partial fulfillment of the requirement for the award of degree of B.Voc Tourism and Hospitality Management under the faculty of B.Voc of the Mahatma Gandhi University, Kottayam during the academic session 2019 – 2022.

Viva Voice Examination Held On .....

**Project** Guide

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**Internal Examiner** 

External Examine

### PILGRIM TOURISM WITH SPECIAL REFERENCES TO MALAYATTOOR

### A STUDY OF PILGRIM TOURISM WITH SPECIAL REFERENCE TO MALAYATTOOR

Submitted to the

### MAHATHMAGANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of the degree

### **B.Voc Tourism and Hospitality Management**

Submitted by

NESRIN NAZEER

Rag No:190041001919

Under the supervision of

Mr. Sreekumar.N

Ms. Treesa Maria Mathew

**Faculty Guides** 



B.VOC TOURISM AND HOSPITALITY MANAGEMENT MARTHOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### DEPARTMENT OF B.VOC

### TOURISM AND HOSPITALITY MANAGEMENT

### MAR THOMA COLLEGE FOR WOMEN

### PERUMBAVOOR

### CERTIFICATE

This is to certify that the Project report entitled "Backwater Tourism with special reference to Kumarakom" submitted to the Mahatma Gandhi University by VANDHANA VINOD in partial fulfillment of the requirement for the award of the degree of B.Voc Tourism and Hospitality Management is a bonafide work carried out under my supervision and guidance.

Viva Voce Examination Held On .....

Project Gu

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Internal Examiner

External Examine

THER FOURISM WITH SPECIAL REFERENCE TO KUMARAKOM

### **"BACKWATER TOURISM WITH SPECIAL REFERENCE TO** KUMARAKOM"

Submitted to the

### MAHATHMA GANDHI UNIVERSITY KOTTAYAM

In partial fulfillment of the requirement for the award of degree of

### B. Voc Tourism and Hospitality Management

2019 - 2022

Submitted by

### VANDHANA VINOD

Reg no: 190041001928

Under the supervision of

Mr.. Sreekumar N

Ms. Treesa Maria Mathew

Faculty guide



### **DEPARTMENT OF B.VOC**

### TOURISM AND HOSPITALITY MANAGEMENT

MAR THOMA COLLEGE FOR WOMENPERUMBAVOOR

1 MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

### DEPARTMENT OF B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

### **CERTIFICATE**

This is to certify that the Project report entitled "HILL TOURISM WITH SPECIAL REFERENCE TO MUNNAR" submitted to the Mahatma Gandhi University by KRISHNPRIYA E.S in partial fulfillment of the requirement for the award of the degree of B.Voc Tourism and Hospitality Management is a Bonafide work carried out under my supervision and guidance.

Viva Voice Examination Held On .....

Project Guide.

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Ale a 106/23.

**Internal examiner** 

**External** examiner

### HILL TOURISM WITH SPECIAL REFERENCE TO MUNNAR

Submitted to the

### MAHATMA GANDHI UNIVERSITY

### KOTTAYAM

In partial fulfillment of the requirement for the award of the award of the degree of

### **B.Voc Tourism and Hospitality Management**

2019-2022

Submitted by

### **KRISHNAPRIYA E.S**

### 190041001913

Under the supervision of

Mr. Sreekumar. N

Ms. Treesa Maria Mathew

Faculty guides



### B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOO

CULTURAL TOURISM WITH SPECIAL REFERENCE TO KOCHI

### CULTURAL TOURISM WITH SPECIAL

### **REFERENCE TO KOCHI**

Submitted to the

### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of the degree

### **B.Voc Tourism and Hospitality Management**

Submitted by

### SHIBINA. K

Reg No:190041001924

Under the supervision of

Mr. Sreekumar. N

Ms. Treesa Maria Mathew

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### B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

CULTURAL TOURISM WITH SPECIAL REFERENCE TO KOCHI

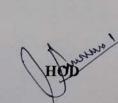
### DEPARTMENT OF B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### CERTIFICATE

This is to certify that the project report entitled "Study of cultural tourism with special reference to Kochi" is the Bonafide work carried out Ms.SAFREENA E S (Reg No: 190041001922) under my guidance and supervision during 2019-2022, in partial fulfillment of the requirement for the award of degree of B.Voc Tourism and Hospitality Management under the faculty of B.Voc of the Mahatma Gandhi University, Kottayam during the academic session 2019 - 2022.

Viva Voice Examination Held On .....

**Project** Guide



**Internal Examiner** 

External Examin

2

CULTURAL TOURISM WITH SPECIAL REFERENCE TO KOCHI

### CULTURAL TOURISM WITH SPECIAL

### **REFERENCE TO KOCHI**

Submitted to the

### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of the degree

**B.Voc Tourism and Hospitality Management** 

Submitted by

SAFREENA E S

Reg No:190041001922

Under the supervision of

Mr. Sreekumar. N

Ms. Treesa Maria Mathew

Faculty Guides



B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### PILGRIM TOURISM WITH SPECIAL REFERENCES TO MALAYATTOOR

### DEPARTMENT OF B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

### CERTIFICATE

This is to certify that the project report entitled "Study of Pilgrim tourism with special reference to Malayattor" is the Bonafide work carried out Ms. MERIN STEPHAN (Reg No: 190041001915) under my guidance and supervision during 2019-2022, in partial fulfillment of the requirement for the award of degree of B.Voc Tourism and Hospitality Management under the faculty of B.Voc of the Mahatma Gandhi University, Kottayam during the academic session 2019 – 2022.

Viva Voice Examination Held On .....

**Project** Guide

HODUNISAN **Internal Examiner** 

External Exam

### PILGRIM TOURISM WITH SPECIAL REFERENCES TO MALAYATTOOR

### A STUDY OF PILGRIM TOURISM WITH SPECIAL REFERENCE TO MALAYATTOOR

Submitted to the

### MAHATHMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of the degree

### **B.Voc Tourism and Hospitality Management**

Submitted by

### **MERIN STEPHAN**

Rag No:190041001915

Under the supervision of

Mr. Sreekumar. N

Ms. Treesa Maria Mathew

**Faculty Guides** 



### B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

Department of B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

### CERTIFICATE

This is to certify that the Project report entitled "Desert tourism special reference to Thar Desert" submitted to the Mahatma Gandhi University by FATHIMA ANJALA in partial fulfillment of the requirement for the award of degree of B. Voc Tourism and Hospitality Management is a bonafide work carried out under my supervision and guidance.

Viva Voce Examination Held On .....

Project Guide

**External Examiner** 

Internal Examiner

### "DESERT TOURISM WITH SPECIAL REFERENCE TO THAR DESERT"

Submitted to the

### MAHATMA GANDHI UNIVERSITY KOTTAYAM

In partial fulfillment of the requirement for the award of degree of

### B. Voc Tourism and Hospitality Management

2019-2022

Submitted by

FATHIMA ANJALA

### Reg no: 190041001907

Under the supervision of

Mr. Sreekumar N

Ms. Treesa Maria Mathew

Faculty Guides



DEPARTMENT OF B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

1

### DEPARTMENT OF B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN PERUMBÁVOOR

### **CERTIFICATE**

This is to certify that the Project report entitled "Village Tourism with special reference to Kumbalangi" submitted to the Mahatma Gandhi University by ASWATHY ASHOKAN in partial fulfillment of the requirement for the award of the degree of B.Voc Tourism and Hospitality Management is a bonafide work carried out under my supervision and guidance.

Viva Voice Examination Held On:

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**Internal Examiner** 

External Examine

MAR THOMA COLLEGE FOER WOMEN PERUMBAVOOR

VILLAGE TOURISM SPECIAL REFERENCE WITH KUMBALANGI

### VILLAGE TOURISM WITH SPECIAL REFERENCE TO KUMBALANGI

Submitted to the

### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of the degree

### **B.Voc Tourism and Hospitality Management**

Submitted by

### **ASWATHY ASHOKAN**

Reg No: 190041001905

Under the supervision of

Mr. Sreekumar N

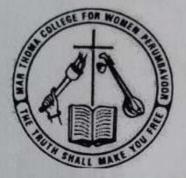
Ms. Treesa Maria Mathew

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### B.VOC TOURISM AND HOSPITALITY MANAGEMENT MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

MAR THOMA COLLEGE FOER WOMEN PERUMBAVOOR



### B. VOC FASHION TECHNOLOGY AND MERCHANDISING

INTERNSHIP I GARMENT MAKING UNIT

Batch: 2020-2023

(Affiliated to Mahatma Gandhi University)

### CERTIFICATE

Name of the Candidate	:	BINITHA VARGILIESE
Register no.	:	20004.100.184.2
Semester	:	2 <sup>st</sup> Semester
Subject	:	INTERSHIP I (GARMENT MAKING UNIT
Subject code	:	FTMS9206

Certified that this is a bonafied record practical work done by Ms. <u>BINNTHA</u> <u>VARUHESE</u> Reg. no. <u>R.O.O.4</u>.100/S4.2., under my guidance and supervision during 2020 – 2021, in partial fulfillment of the requirement for the award of degree of B. Voc Fashion Technology and Merchandising under the faculty of B. Voc Mahatma Gandhi University, Kottayam during the academic session 2020 – 2023.

PRACTICAL EXAMINATION HELD ON : 22.08. 2022

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Register no.	:	200041001860
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Certified that this is a bonafied record practical work done by Ms. Sneha. Subsamanyan Reg. no. 2000410018.5.8... under my guidance and supervision during 2020 – 2021, in partial fulfillment of the requirement for the award of degree of B. Voc Fashion Technology and Merchandising under the faculty of B. Voc Mahatma Gandhi University, Kottayam during the academic session 2020 – 2023.

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This is to certify that internship report entitled "INTERNSHIP - 2 -EXPORTHOUSE "is the bonafide work carried out by

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Certified that this is a bonafied record practical work done by Ms. <u>DEVIKO</u> JJ Reg. no. <u>20004</u>[00164.3...under my guidance and supervision during 2020 - 2021, in partial fulfillment of the requirement for the award of degree of B. Voc Fashion Technology and Merchandising under the faculty of B. Voc Mahatma Gandhi University, Kottayam during the academic session 2020 - 2023.

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Certified that this is a bonafied record practical work done by Ms. COPIKA NIV Reg. no. 2000.H.100.1C.H.7 under my guidance and supervision during 2020 - 2021, in partial fulfillment of the requirement for the award of degree of B. Voc Fashion Technology and Merchandising under the faculty of B. Voc Mahatma Gandhi University, Kottayam during the academic session 2020 - 2023.

PRACTICAL EXAMINATION HELD ON : 22/8/2022

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Head of the Department

COLUNIO ANITTA JOSEPH

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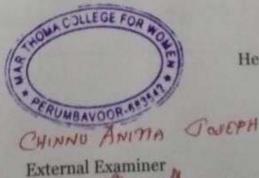
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PRACTICAL EXAMINATION HELD ON : 2 2/2/ 2022

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me of the Candidate	ANJANA AJAYAN
pater no.	8000H1001539
Heater	2 <sup>st</sup> Semester
aleek	INTERSHIP I (GARMENT MAKING UI
hiert code	FTM89206

rolled that this is a bonafied record practical work done by Ms. DNJDA(B, A)F = 00.2004(1001X) under my guidance and supervision during 2020 - 202 roll fulfillment of the requirement for the award of degree of B. Voe Fashion Technol roll and suffillment of the requirement for B. Voe Mahatma Gandhi University, Kottayam duri erchandising under the faculty of B. Voe Mahatma Gandhi University, Kottayam duri ademic session 2020 - 2023

RACTICAL EXAMINATION HELD ON 22 - 5-2024

Hoad of the

Awarta Joseph

External Examiner of

increal locations

# INTELLECTUAL HISTORY OF

# PULLUVAZHY

**Project Dissertation** 

Submitted to



The Mahatma Gandhi University in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ARTS HISTORY,

ARCHAEOLOGY AND MUSEOLOGY

2019-2022

**BHAGYA AGNES JAMES** 

(Reg. No.190021017743)

**DIYA KALESH** 

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DEPARTMENT OF HISTORY, ARCHAEOLOGY AND MUSEOLOGY

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This is to certify that this project dissertation entitled INTELLECTUAL HISTORY OF PULLUVAZHY is a record of original work done by Ms. BHAGYA AGNES JAMES (Reg. No:190021017743, Ms. DIYA KALESH (Reg. No: 190021017744), Ms. ELEENA MATHEW (Reg.No:190021017745) Ms. ANEETA M KURIAN (Reg. No:190021017738), Ms. KALAVATHY.S (Reg. JAYAKUMAR (Reg. VRINDA No:190021017751), and No:190021017760) in partial fulfilment of the requirement for the award of degree of Bachelor of Arts in History, Archaeology and Museology to the Mahatma Gandhi University, Kottayam under the guidance of Dr. BIBIN KURIAKOSE Department of History, Archaeology and Museology . It is to certifies that this project report or any part there of has not been submitted elsewhere for any other degree.

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Department of History Archaeology and Muselogy

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External Examiner

Date : 16/05/2022 Place: Perumbavoor



Department of History Mar Thoma College for Women Perumbayour - 683 542., Kerala

# SUSTAINABLE DEVELOPMENT KERALA MODEL IN A FEMINIST VIEW

**Project Dissertation** 

Submitted to



The Mahatma Gandhi University in partial fulfilment of the requirements for the award of the degree of

### BACHELOR OF ARTS HISTORY, ARCHAEOLOGY AND MUSEOLOGY

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Place: Perumbavoor

# THIRTEEN ARCH BRIDGE IN AYRANKAVU

Project Submitted to the

Mahatma Gandhi University

For Award of the degree in

Bachelor of Arts in History, Archaeology and Museology

(Credit and Semester System)



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By

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Dr. Bibin Kuriakose

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# ARCHAEOLOGY OF THE KADUTHURUTHY CHURCH AND THE KNANAYA TRADITION

Project submitted to the Mahatma Gandhi University For Award of the Degree in

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(Credit and Semester System)



By

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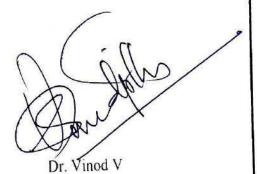
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Assistant Professor Department of History, Archaeology and Museology MarThoma College for Women Perumbavoor, kerala-683542

Place: Perumbavoor Date: 17/05/2022.

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Submitted to the Mahatma Gandhi University in partial fulfillment of the requirements for the award of Degree of Bachelor of Arts in History and archaeology with museology



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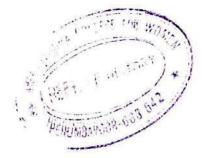
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	DECLARATION
We. <b>Ms. Arya R. Ms. Ath</b> Archaeology with Museolog declare that the dissertation bonafide record of work can before for any other degree ,	n <b>ira Sanal , Ms.Jiya Joy,</b> Department of History of y ,marthoma college for women; perumbavoor do her a "Slavery in India with special reference to Kerala" i rried out by us and that no part of it has been preser diploma or title .
ARYA R ATHIRA SAN JIYA JOY	(Reg.No.190021017742)
III B A Histor Department o	ry of History AND Archaeology with Museology
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MARTHO PERUMBAVOOR ;	MA COLLEGE FOR WOMEN PERUMBATO
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# NILAMBUR FOREST AND THE BRITISH TECHNO-ECOLOGICAL IMPERIALISM IN KERALA

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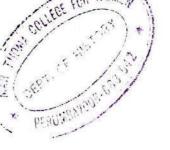
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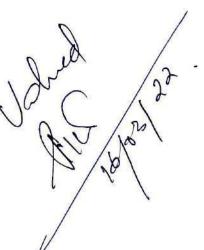
# SOCIAL HISTORY OF AREEKODE

Project Submitted to the

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Head Department of History Mar Thema College for Women Perumbayoor - 603 5+2., Keraia

# THE HISTORY OF NERVAMANGALAM BRIDGE

Project Dissertation

Submitted to



The Mahatma Gandhi University in partial fulfilment of the requirements for the award of the degree of

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# MAR THOMA COLLEGE FOR WOMEN

# PERUMBAVOOR, KERALA

സർട്ടിഫിക്കറ്റ്

നേര്യമംഗലം പാലത്തിന്റെ ചരിത്രം എന്ന തലകെട്ടിലുള്ള ഈ പ്രൊജക്ട്.ബിരുദ പഠനത്തിന്റെ ഭാഗമായ പൂർത്തികരണത്തിന് വേണ്ടി ശാരിക ശശി (Reg No:190021017755),ശരണ്യ എ. എസ് (Reg 190021017765),ആര്യനന്ദ സുപ്രൻ (Reg no: 190021017740),അശ്വതി രാജു (Reg no: 190021017741),അനഘ ബിജു (Reg no:190021017736) നടത്തിയ മൗലിക പ്രവർത്തനത്തിന്റെ രേഖയാണെന്ന് സാക്ഷ്യപെടുത്തുന്നതിനാണ് ഇത്. ചരിത്ര പുരാവസ്തു വിഭാഗം അധ്യാപകനായ ജിസ്മോൻ തോമസിന്റെ നേതൃത്വത്തിൽ തയ്യാറാക്കിയ ഈ പ്രൊജക്ട് മറ്റെവിടെയും മറ്റു ബിരുദ പഠനകളുടെ ഭാഗമായി സമർപ്പിച്ചിട്ടില്ലായെന്നു സാക്ഷ്യപ്പെടുത്തുന്നു.

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: GISMON THOMAS Guide Department of History and Archaeology Mar Thoma College for Women Perumbavoor.

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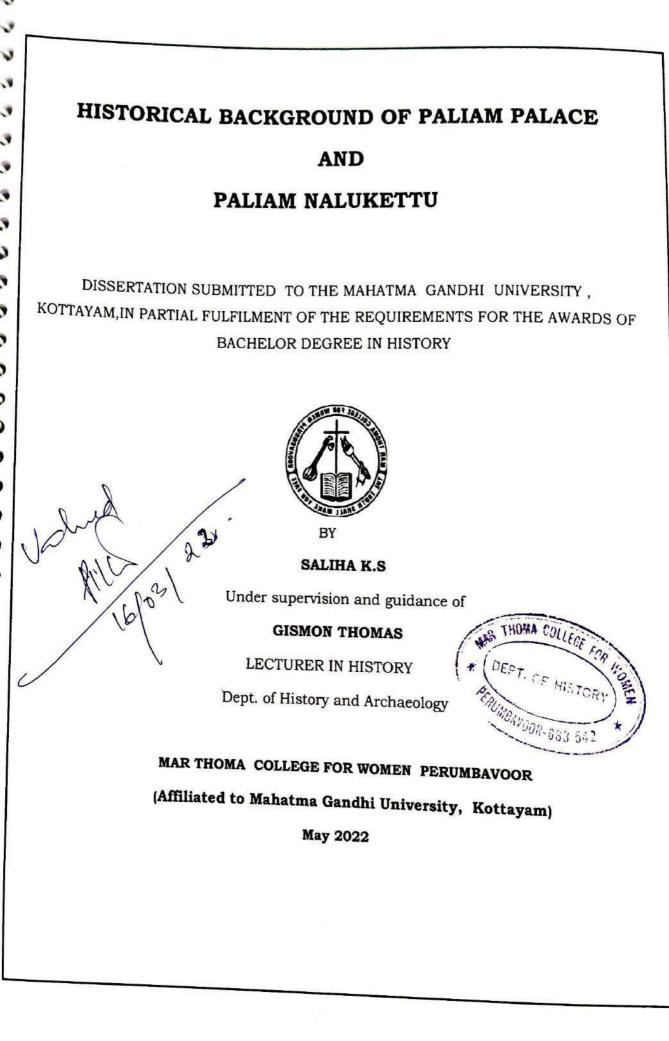
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### CERTIFICATE

This is to that the dissertation titled **Historical Importance of Paliam Palace and Paliam Nalukettu** is bonafide record of the project work done by **Saliha K S** under my supervision for the partial fulfillment of the award of Bachelor degree in History of the Mahatma Gandhi University , Kottayam.

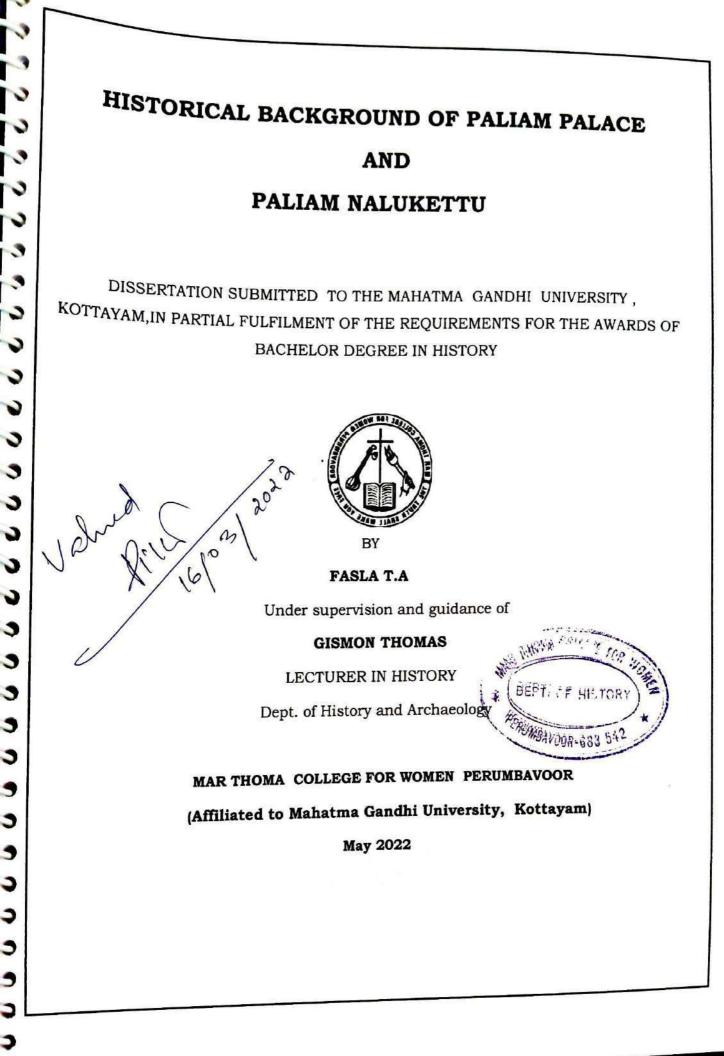
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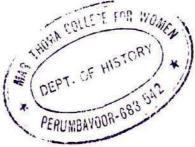
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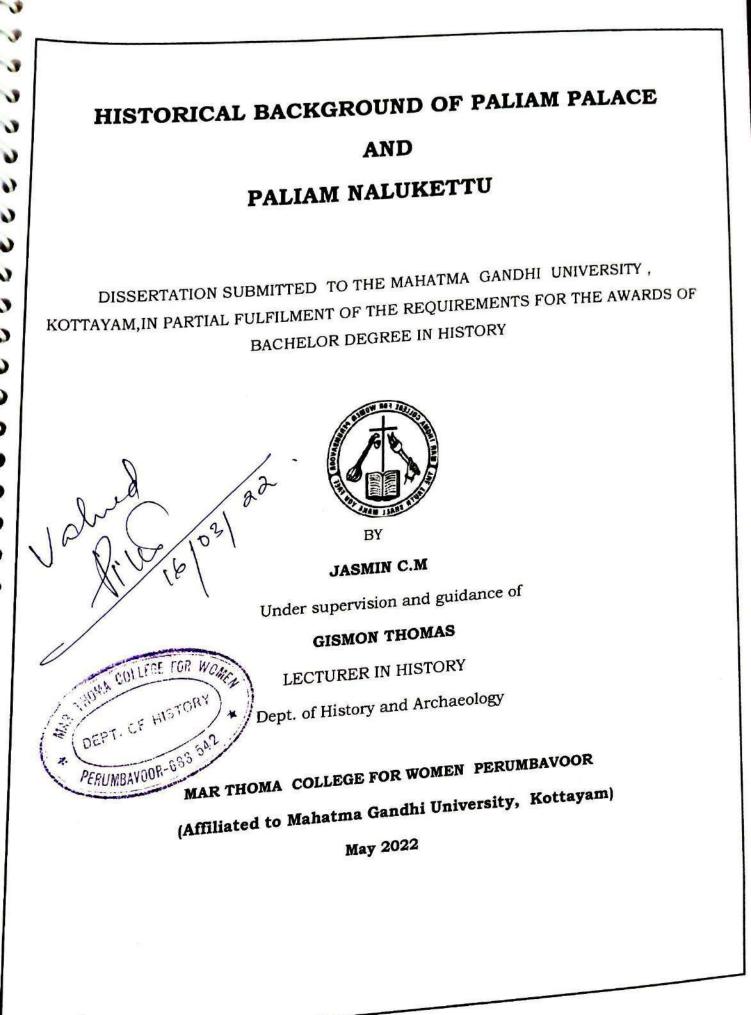
**GISMON THOMAS** 

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# THE HISTORY OF NERYAMANGALAM BRIDGE

**Project Dissertation** 

Submitted to



The Mahatma Gandhi University in partial fulfilment of the requirements for the award of the

degree of

#### **BACHELOR OF ARTS**

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### MAR THOMA COLLEGE FOR WOMEN

### PERUMBAVOOR, KERALA

### സർട്ടിഫിക്കറ്റ്

നേര്യമംഗലം പാലത്തിന്റെ ചരിത്രം എന്ന തലകെട്ടിലുള്ള ഈ പ്രൊജക്ട്,ബിരുദ പഠനത്തിന്റെ ഭാഗമായ പൂർത്തികരണത്തിന് വേണ്ടി ശാരിക ശശി (Reg No:190021017755),ശരണ്യ എ. എസ് (Reg no: 190021017765),ആര്യനന്ദ സുപ്രൻ (Reg no: 190021017740),അശ്വതി രാജു (Reg no: 190021017741),അനഘ ബിജു (Reg no:190021017736) നടത്തിയ മൗലിക പ്രവർത്തനത്തിന്റെ രേഖയാണെന്ന് സാക്ഷ്യപെടുത്തുന്നതിനാണ് ഇത്. ചരിത്ര പൂരാവസ്തൂ വിഭാഗം അധ്യാപകനായ ജിസ്മോൻ തോമസിന്റെ നേതൃത്വത്തിൽ തയ്യാറാക്കിയ ഈ പ്രൊജക്ട് മറ്റെവിടെയും മറ്റൂ ബിരുദ പഠനകളുടെ ഭാഗമായി സമർപ്പിച്ചിട്ടില്ലായെന്നു സാക്ഷ്യപ്പെടുത്തുന്നു.

#### Signature :

Guide : GISMON THOMAS Department of History and Archaeology Mar Thoma College for Women Perumbavoor.

Signature :

HOD : Dr. BIBIN KURIAKOSE

Department of History and Archaeology

Mar Thoma College for Women

Perumbavoor.

External Examiner:

Date: 17/05/2022

DEPT. OF HISTORY \*

Department of History Mar Thoma College for Women Perumbayoor - 683 542., Kerala

Place:

# HISTORICAL BACKGROUND OF PALIAM PALACE

## AND

## PALIAM NALUKETTU

DISSERTATION SUBMITTED TO THE MAHATMA GANDHI UNIVERSITY, KOTTAYAM,IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARDS OF BACHELOR DEGREE IN HISTORY





Under supervision and guidance of

### **GISMON THOMAS**

### LECTURER IN HISTORY

Dept. of History and Archaeology

### MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(Affiliated to Mahatma Gandhi University, Kottayam)

May 2022

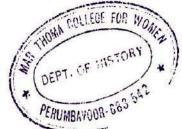
Department of History and Archaeology Marthoma College for Women Perumbavoor ,Kerala-683 542

### CERTIFICATE

This is to that the dissertation titled **Historical Importance of Paliam Palace and Paliam Nalukettu** is bonafide record of the project work done by **FATHIMA SALEEM** under my supervision for the partial fulfillment of the award of Bachelor degree in History of the Mahatma Gandhi University, Kottayam.

Lecturer in History

Perumbavoor



### **GISMON THOMAS**

Head

Department of History Mar Thoma College for Women Perumbayour - 683 542., Kerata

### SUSTAINABLE DEVELOPMENT KERALA MODEL IN A FEMINIST VIEW

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**Project Dissertation** 

Submitted to



The Mahatma Gandhi University in partial fulfilment of the requirements for the award of the degree of

### **BACHELOR OF ARTS**

# HISTORY, ARCHAEOLOGY AND MUSEOLOGY

2019-2022

AISWARYA MOHANAN

(190021017734)

Valued 5 2/22.

Under the guidance of

Dr. BIBIN KURIAKOSE

# DEPARTMENT OF HISTORY, ARCHAEOLOGY AND MUSEOLOGY

### MAR THOMA COLLEGE FOR WOMEN

### PERUMBAVOOR





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### CERTIFICATE

This is to certify that this project dissertation entitled "sustainable development Kerala model in a feminist view "is a record of original work done by Ms. Aiswarya mohanan ( 190021017734) in partial fulfilment of the requirement for the award of degree of Bachelor of Arts in History, Archaeology and Museology to the Mahatma Gandhi University, Kottayam under the guidance of Dr. BIBIN KURIAKOSE Department of History, Archaeology and Museology. It is to certifies that this project report or any part of it has not been submitted elsewhere for any other degree.

Signature:

Guide : Dr. BIBIN KURIAKOSE

Department History Archaeology and Museology

Mar Thoma College for Women Perumbavoor

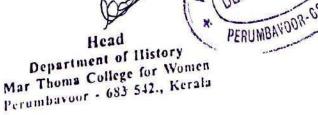
Signature :

HOD : BIBIN KURLAKOSE

Department of History Archaeology and Muselogy

Mar Thoma College for women Perumbavoor

External Examiner



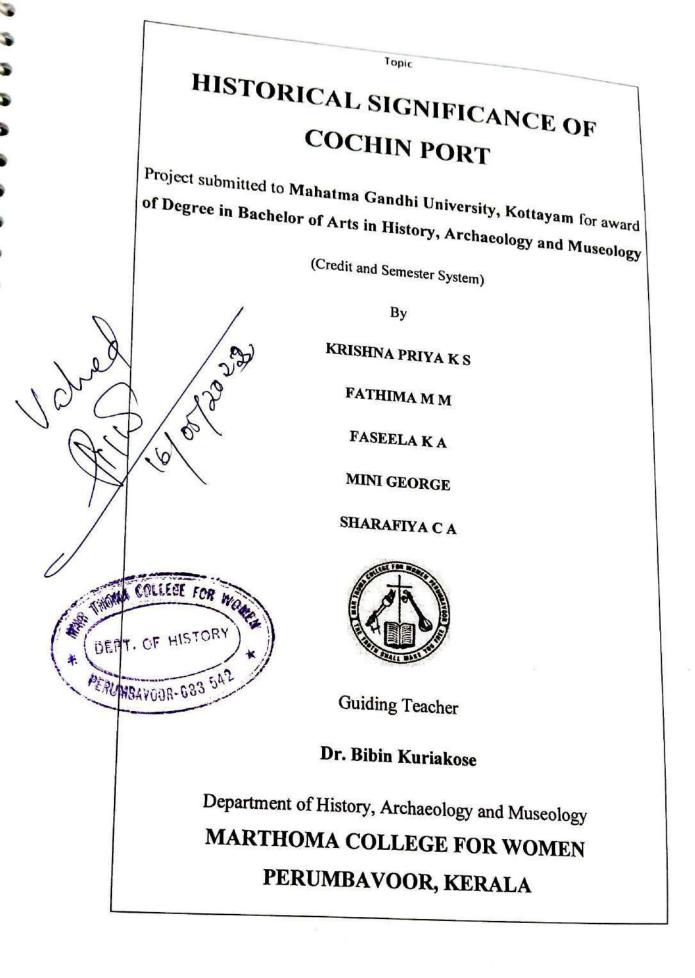
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Date: 16/05/2022

Place: Perumbavoor



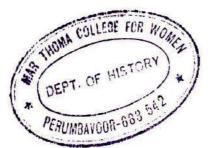
### CERTIFICATE

This is to certify that the work entitled "Historical Significance of Cochin Port" being submitted by KRISHNA PRIYA K S, FATHIMA M M, FASEELA K A, MINI GEORGE, and SHARAFIYA C A is practical fulfilment of the requirement for the award of Bachelor of Arts in History, Archaeology and Museology (Credit and Semester System) in MAHATMA GANDHI UNIVERSIT, is a bonafide record of the work done by them under my supervision and guidance and no part of this work has been submitted elsewhere of any degree.

### PLACE : PERUMBAVOOR

Dr. BIBIN KURIAKOSE Head of the Department of History Marthoma College for Women

DATE : 16 5 2022



Head Department of History Mar Thoma College for Women Perumbayoor - 683 542., Kerala

# Reading childhood Trauma in Mystic River

A project submitted to Mahatma Gandhi University in partial fulfillment of the Degree of Bachelor of Arts in English Language and Literature (Model II Administrative Assistant)



Submitted by

Aaliya P Moideen

Reg no 190021011069

Under the supervision of

Dr. Minu Susan Koshy Assistant Professor Department of English

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

(2019-2022)



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# MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

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This is to certify that the project titled "Reading childhood Trauma in Mystic River" is a bona file record of research work done by Ms. Aaliya P Moideen (Reg No. 190021011069) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts in English Language and Literature (Model II Administrative Assistant) to Mahatma Gandhi University, Kottayam. The project has not been previously used for the award of any other similar titles of any other University or Board Calling for Jor 17-5-22

Dr. Minu Susan Koshy

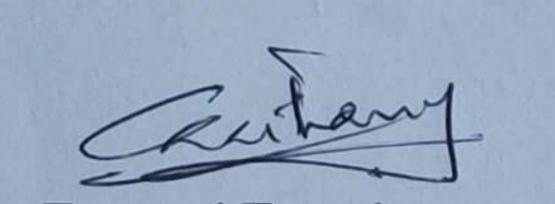
Ms. Chaithanya Elsa Achankunju.

Project supervisor

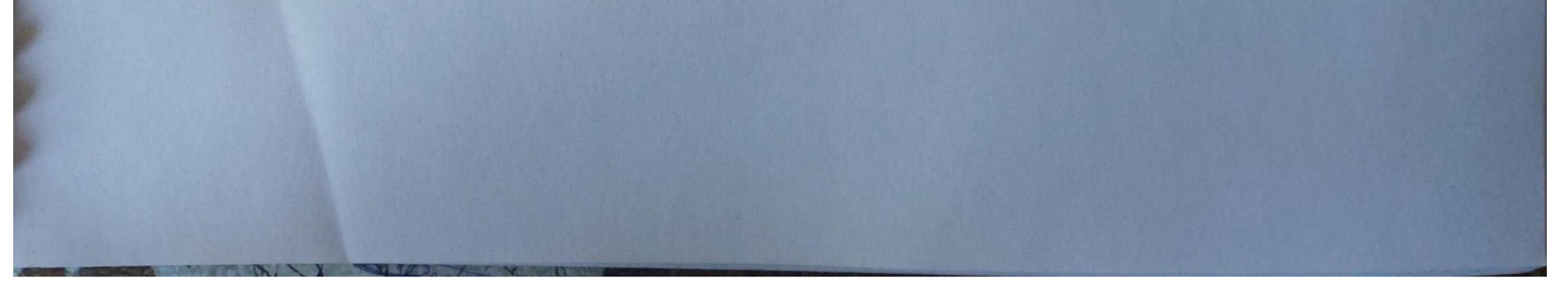
Head of the Department.

Principal

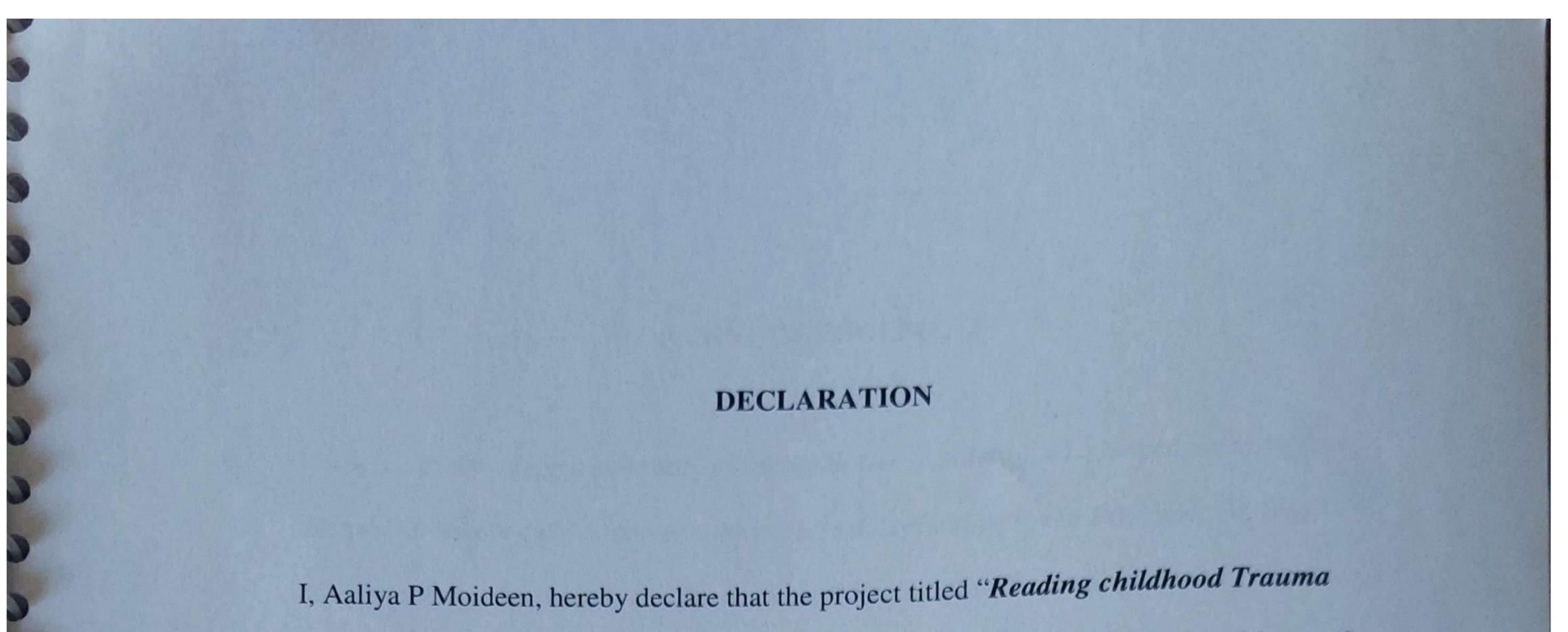
Dr. Sujo Mary Varghese



External Examiner





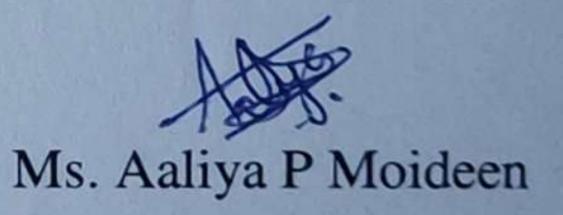


*in Mystic River*" is a bona file record of research work done by me under the guidance of Dr. Minu Susan Koshy, Assistant Professor, Department of English, Mar Thoma College for Women. Perumbavoor, and that this work has not formed the basis of any academic

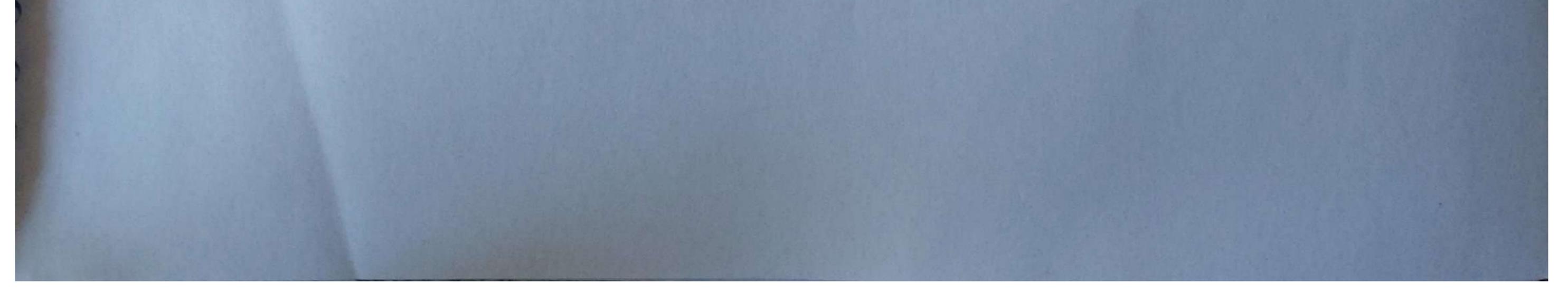
qualifications of any other University of Board.

Place: Perumbavooor

Date: 16/05/2022



Reg No: 190021011069





## Reading Masculinity in Ayyappanum Koshiyum and Ishq

A project submitted to Mahatma Gandhi University in partial fulfillment of the Degree of

Bachelor of Arts in English



Submitted By

Afrin Shahul

Reg No:1900221011070

Under the Supervision of Ms. Chaithanya Elsa Achankunju Head of the Department Department of English

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR 2019-2022

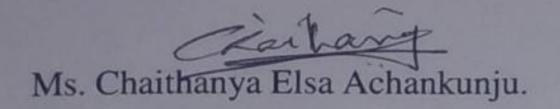


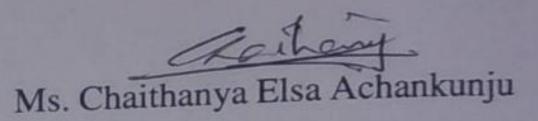
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## MARTHOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### CERTIFICATE

This is to certify that the project entitled *Reading Masculinity in Ayyappanum Koshiyum and Ishq* is a record of research work done by Ms. Afrin Shahul (RegNo:190021011070) in Partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts of the Mahatma Gandhi University, Kottayam. The project has not been previously used for the award of any similar title of any other University or Board.





Head of the Department

Project Supervisor.

12-5-22

Dr. Sujo Mary Varghese

Principal

External Examiner

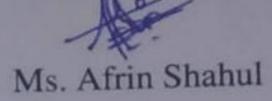


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I. Afrin Shahul, hereby declare that the project titled Masculinity in movies AyyappanumKoshiyum and Ishq is a record of research work done by me under the guidance of Ms. Chaithanya Elsa Achankunju, Head of the Department, Department of English, Mar Thoma College for Women, Perumbavoor and this work has not formed the basis of any academic qualifications, of any other University or Board.

Place : Perumbavoor.

Date: 18/05/2022



Reg No: 190021011070



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## Urban Expansion and Marginalisation in Kommutipaadam A project submitted to Mahatma Gandhi University in partial fulfillment of the Degree of Bachelor of Arts in English Language and Literature (Model II Administrative Assistant)



Submitted By

ALFIYA P.A

Reg No:190021011087

Under the Supervision of

Ms. Chaithanya Elsa Achankunju

Head of the Department

Department of English

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

2023.02.09 19:32

(2019-2022)

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

#### CERTIFICATE

This is to certify that the project entitled Urban Expansion and Marginalisation in Kammatipaadam is a bona fide work done by ALFIYA P. A (Reg. No.: 190021011087) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Arts of the Mahatma Gandhi University. Kottayam. This project has not been previously used for the award of any similar title of any other University or Board.

Charlent

Ms. Chaithanya Elsa Achankunju

Project Supervisor

Ms. Chaithanya Elsa Dr. Sujo Mary Varghese

Head of the Department

Principal

2023.02.09 19:34

LALFIYA P.A., hereby declare that the project titled Urban Expansion and Marginalisation in *Kammatipuadum* is a bona fide record of work done by me under the guidance of Ms. Chaithanya Elsa Achankunju, Head of the Department. Department of English, Mar Thoma College for Women, Perumbayoor, and this work has not formed the basis of any academic qualifications, of any other University or Board

Place : Perumbayoor Date : 16/05/2022

Alfiya -Ms. ALFIYA P.A

Reg. No: 190021011087

#### Reading Transhumanism in Lucy

A project submitted to Mahatma Gandhi University in partial fulfilment of the Degree

of Bachelor of Arts in English Language and Literature (Model II Administrative

Assistant)



Submitted by

Ms. Amal Saleem

Reg No: 190021011072

Under the supervision of

Ms. Roshin T. Roy

Assistant Professor

Department of English

#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

#### (2019-2022)

#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

#### CERTIFICATE

This is to certify that the project titled "Reading Transhumanism in *Lucy*" is a bona fide record of research work done by Ms. Amal Saleem (RegNo:190021011072) in partial fulfilment of the requirements for the award of the Degree of Bachelor of Arts in English Language and Literature (Model II Administrative Assistant) to Mahatma Gandhi University, Kottayam. The project has not been previously used for the award of any other similar titles of any other University or Board.

Dr. Sujo Mary Varghese

Ms. Chaithanya Elsa Achankunju

Head of the Department

Ms. Roshin T. Roy

**Project Supervisor** 

External Examiner

Principal

I, Amal Saleem, hereby declare that the project titled "Reading Transhumanism in *Lucy*" is a record of research work done by me under the guidance of Ms. Roshin T. Roy, Assistant Professor, Department of English, Mar Thoma College for Women, Perumbavoor and that this work has not formed the basis of any academic qualifications of any other University or Board.

Ms. Amal Saleem

Place: Perumbavoor

Date: 16 May, 2022

Reg.No:190021011072

#### Pride versus Predicament: A Nietzchean Analysis of the Novel NormalPeople by Sally Rooney

A project submitted to Mahatma Gandhi University in partial fulfillment of the Degree ofBachelor of Arts in English Language and Literature (Model II Administrative Assistant)



Submitted By

Athira Surendran

Reg No:190021011077

Under the Supervision of

Ms. Sangeetha Rachel Koruth

Assistant Professor

Department of English

#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

(2019-2022)

#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

#### CERTIFICATE

This is to certify that the project titled "Pride versus Predicament: A Nietzchean Analysisof the Novel *Normal People* by Sally Rooney" is a bona fide work done by Ms. Athira Surendran (RegNo:190021011077) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts, to Mahatma Gandhi University, Kottayam. Thisproject has not been previously used for the award of any other similar titles of any other University or Board.

Ms.Sangeetha Koruth

Project supervisor

Ms.Chaithanya Achankunju

Head of the Department

Dr. Sujo Mary Varghese

Principal

External Examiner

I. Athira Surendran, hereby declare that the project titled "Pride versus Predicament: A Nietzchean Analysis of the Novel *Normal People* By Sally Rooney" is a bona fide record of work done by me under the guidance of Ms. Sangeetha Rachel Koruth, Assistant Professor, Department of English, Mar Thoma college for Women, Perumbavoor and this work has not formed the basis of any academic qualifications of any other University or Board.

Place: Perumbavoor

Heine

Ms.Athira Surendran

Date: 16-05-2022

Reg. No: 190021011077

#### "Your Doll is My Child-" A Psychoanalytic Study of the Novel An American

#### Marriage by Tayari Jones

A project submitted to Mahatma Gandhi University in partial fulfillment of the Degree of Bachelor of Arts in English Language and Literature (Model II Administrative Assistant)



Submitted By

Binsa Jaffer

Reg No:190021011089

Under the Supervision of

Ms. Sangeetha Rachel Koruth

Assistant Professor

Department of English

#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

(2019 - 2022)

#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

#### CERTIFICATE

This is to certify that the project titled "Your Doll is My Child - A Psychoanalytic Study of the Novel *An American Marriage* by Tayari Jones" is a bona fide work done by Ms. Binsa Jaffer (RegNo:190021011089) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts, to Mahatma Gandhi University, Kottayam. The project has not been previously used for the award of any other similar titles of any other University or Board.

2-5-22

Dr. Sujo Mary Varghese Principal

External Examiner

Ms. Sangeetha Koruth

Project Supervisor.

Ms. Chaithanya Achankunju Head of the Department

I, Binsa Jaffer , hereby declare that the project titled "Your Doll is My Child - A Psychoanalytic Study of the Novel *An American Marriage* by Tayari Jones" is a bona fide record of work done by me under the guidance of Ms. Sangeetha Rachel Koruth, Assistant Professor, Department of English, Mar Thoma college for Women, Perumbavoor and that this work has not formed the basis of any academic qualifications of any other University or Board.

Place : Perumbavoor.

Date : 16/05/2022

Ms. Binsa Jaffer

Reg. No: 190021011089

#### Reading Food Culture in Madhuram

A project submitted to Mahatma Gandhi University in partial fulfilment of the Degree of Bachelor of Arts in English Language and Literature (Model II Administrative Assistant)



Submitted By

Ms. Fathima Salha Reg No:190021011079

Under the Supervision of

Ms. Roshin T. Roy

Assistant Professor

Department of English

#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

(2019-2022)

#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

#### CERTIFICATE

This is to certify that the project titled **"Reading Food Culture in** *Madhuram***"** is a bona fide record of research work done by Ms. Fathima Salha (RegNo:190021011079) in partial fulfilment of the requirements for the award of the Degree of Bachelor of Arts in English Language and Literature (Model II Administrative Assistant) to Mahatma Gandhi University, Kottayam. The project has not been previously used for the award of any other similar titles of any other University or Board.

Rather

Roshin T. Roy Ms. Chaithanya Elsa Achankunju

Project Supervisor

Head of the Department

Principal

Dr. Sujo Mary Varghese

External Examiner

I, Fathima Salha, hereby declare that the project titled "Reading Food Culture in *Madhuram*" is a record of research work done by me under the guidance of Ms. Roshin
T. Roy, Assistant Professor, Department of English, Mar Thoma college for Women,
Perumbavoor, and that this work has not formed the basis of any academic qualifications
of any other University or Board.

Isalha

Ms. Fathima Salha

Place: Perumbavoor

Date: 16-05-2022

Reg. No: 190021011079

Racism in the movie The Last Blackman In San Francisco

A project submitted to Mahatma Gandhi University in partial fulfilment of the Degree of Bachelor of Arts in English Language and Literature (Model II Administrative Assistant)



Submitted By FathimaNoushad V N Reg No: 190021011078

Under the Supervision of Dr. Minu Susan Koshy Assistant Professor Department Of English

#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR (2019-2022)

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#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

#### CERTIFICATE

This is to certify that the project titled Racism in The Last Black In San Francisco record of research done by Ms. FathimaNoushad v n (Reg no: 190021011078) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts, to Mahatma Gandhi University, Kottayam . The project has not been previously used for the award of any similar titles of any other University or Board.

Dr. Minu Susan Koshy

Ms. Chaithanya Elsa Achankunju

Dr. Sujo Mary Varghese

Project Supervisor

Head Of Department

Principal

Aminer External

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I, FathimaNoushad V N, hereby declare that the project titled Racism in movie The Last Black In San Francisco record of research work done by me under the guidance of Dr. Minu Susan Koshy, Assistant Professor, Department of English, Mar Thoma College for Women, Perumbavoor and that this work has not formed the basis of any academic qualification of any other University or Board.

#### Place: Perumbavoor

Fathime

Ms . FathimaNoushad v n Reg no: 190021011078

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# A Post-Truth Reading of Jeethu Joseph's Drishyam

## and Drishyam 2: The Resumption

A project submitted to Mahatma Gandhi University

in partial fulfillment of the Degree of

Bachelor of Arts in English Language and Literature

(Model II Administrative Assistant)



Submitted By FIDHA AFRIN AS Reg. No: 190021011092

Under the Supervision of

## Ms CHAITHANYA ELSA ACHANKUNJU

Assistant Professor Department of English

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## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR 2019-2022



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## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### CERTIFICATE

This is to certify that the project titled "Reading Post-Truth on Jeethu Joseph's Drishyam and Drishyam 2: The Resumption" is a record of research work done by Ms. Fidha Afrin AS (Reg. No: 190021011092) in Partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts, to Mahatma Gandhi University, Kottayam. The project has not been previously used for the award of any other similar titles of any other University or Board.

12-5-22

Jaihary

Ms.Chaithanya Elsa Achankunju Ms.Chaithanya Elsa Achankunju Dr. Sujo Mary Varghese

Project Supervisor

Head of the Department

Principal

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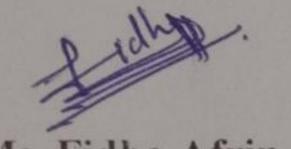


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I, Fidha Afrin AS, hereby declare that the project titled "Reading Post-Truth on Jeethu Joseph's *Drishyam* and *Drishyam 2: The Resumption*" Movie Series is a record of research work done by me under the guidance of Ms. Chaithanya Elsa Achankunju, Head of the Department, Department of English, Mar Thoma College for Women, Perumbavoor and that this work has not formed the basis of any academic qualifications of any other University or Board.

Place : Perumbavoor

Date: 16 May 2022



Ms. Fidha Afrin AS

Reg. No: 19002101092



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### Exploring 'Barrenness as Disability' in One Part Woman and Trial by Silence

A project submitted to Mahatma Gandhi University in partial fulfillment of the Degree of Bachelor of Arts in English



Submitted By

Gopika Nandanakumar Reg. No.: 190021011093

Under the Supervision of

Ms. Preethi Sara Joseph Assistant Professor Department of English

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR (2019-2022)



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## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

## CERTIFICATE

This is to certify that the project entitled Exploring 'Barrenness as Disability' in One Part Woman and Trial by Silence is a bona fide work done by Gopika Nandanakumar (Reg. No.: 190021011093) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Arts of the Mahatma Gandhi University, Kottayam. This project has not been previously used for the award of any similar title

of any other University or Board.



Dr.Sujo Mary Varghese

Ms.Preethi Sara Joseph Ms.Chaithanya Elsa Achankunju

Head of the Department

Principal

Project Supervisor

External Examiner

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I, Gopika Nandanakumar, hereby declare that the project titled Exploring 'Barrenness as Disability' in One Part Woman and Trial by Silence is a bona fide record of work done by me under the guidance of Ms. Preethi Sara Joseph, Assistant Professor, Department of English, Mar Thoma College for Women, Perumbavoor, and this work has not formed the basis of any academic qualifications, of any other

University or Board.

GAR. Ms. Gopika Nandanakumar

Place: Perumbavoor

Reg.No.190021011093



Reading Body Shaming in Malayalam Movie Thamaasha

A project submitted to Mahatma Gandhi University in partial Fulfillment of the Degree

of Bachelor of Arts in English



Submitted by

Rumaisa C. B.

Reg. No. 190021011083

Under the supervision of

Ms. Roshin T Roy

**Assistant Professor** 

Department of English

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

(2019-2022)



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### CERTIFICATE

This is to certify that the project titled Reading Body Shaming in Malayalam Movie *Thamaasha* is a bona file record of research work done by Ms. Rumaisa C. B. (Reg. No. 190021011083) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts of the Mahatma Gandhi University, Kottayam. The project has not been previously used for the award of any other similar titles of any other University or Board.

12

Dr. Sujo Mary Varghese

Ms. Chaithanya Elsa Achankunju



Ms. Roshin T Roy

Principal

Head of the Department

External Externiner

**Project Supervisor** 



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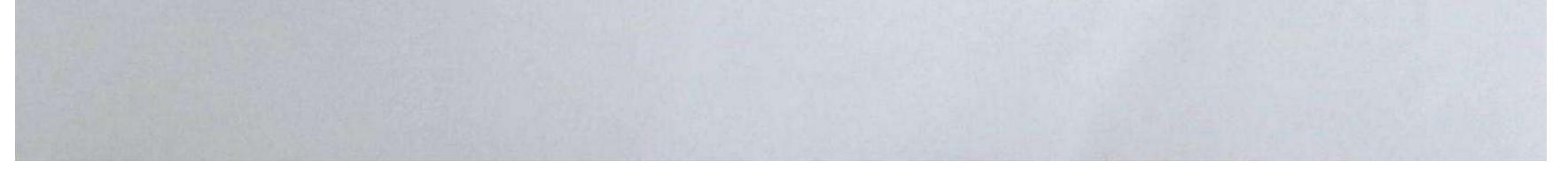
I, Rumaisa C. B., hereby declare that the project titled Reading Body Shaming in Malayalam Movie *Thamaasha* is a bona fide record of work done by me under the guidance of Ms. Roshin T Roy, Assistant Professor, Department of English, and Mar Thoma College for Women, Perumbavoor. I solemnly declare that this dissertation has not been previously submitted for the award of any academic qualifications, of any other University or Board.

Place: Perumbavooor

Date: 17 05 2022

2 mile Ms. Rumaisa C. B.

Reg. No.: 190021011083



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Thomas 1

## **Obscure Representation of Dalits: Dismantling Kala.**

A project submitted to Mahatma Gandhi University in partial fulfillment of the Degree of

Bachelor of Arts in English



## Submitted By

Sharon Sara Thomas

## Reg No: 190021011095

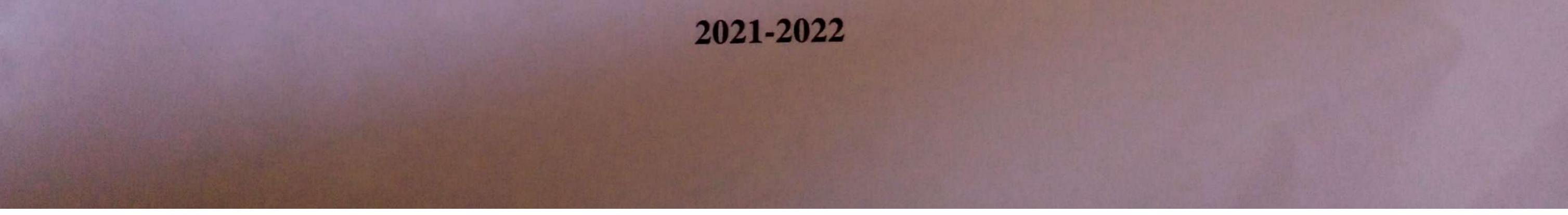
Under the Supervision of

Dr. Minu Susan Koshy

Assistant Professor

Department Of English

Mar Thoma College for Women, Perumbavoor





Thomas 2

# MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

CERTIFICATE

This is to certify that the project titled Obscure Representation of Dalits: Dismantling Kala

in record of research done by Ms. Sharon Sara Thomas (Reg no: 190021011095) in practical

## fulfillment

of the requirements for the award of the Degree of Bachelor of Arts, to Mahatma Gandhi

University, Kottayam. The project has not been previously used for the award of any similar

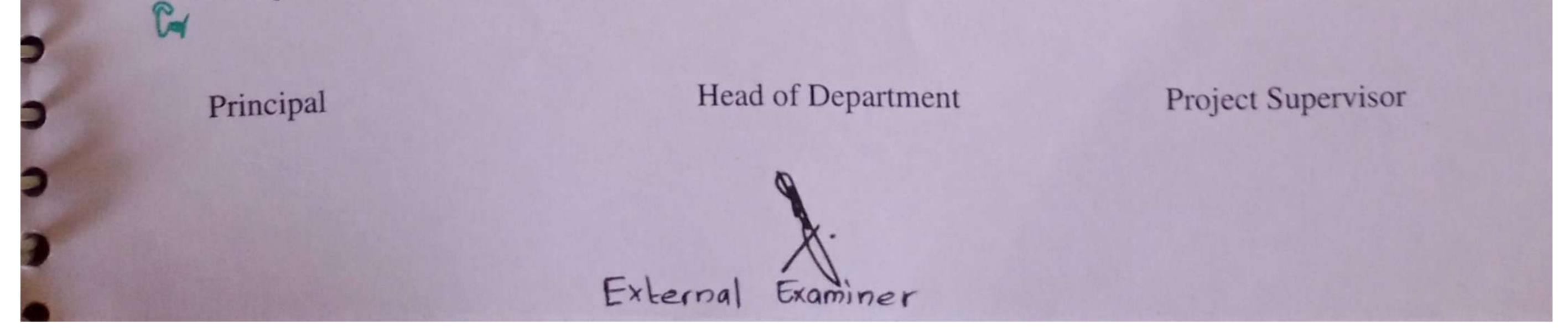
titles of any other University or Board.

Dr. Sujo Mary Varghese

sarber

Ms. Chaithanya Elsa Achankunju

Dr. Minu Susan Koshy



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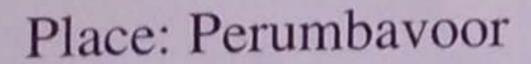
## Thomas 3

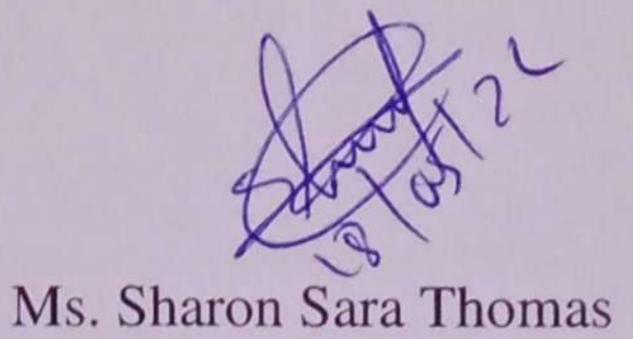
## DECLARATION

I, Sharon Sara Thomas, hereby declare that the project titled "Obscure Representation of Dalits: Dismantling *Kala*" in record of research work done by me under the guidance of Dr. Minu Susan Koshy, Assistant Professor, Department of English, Mar Thoma College for

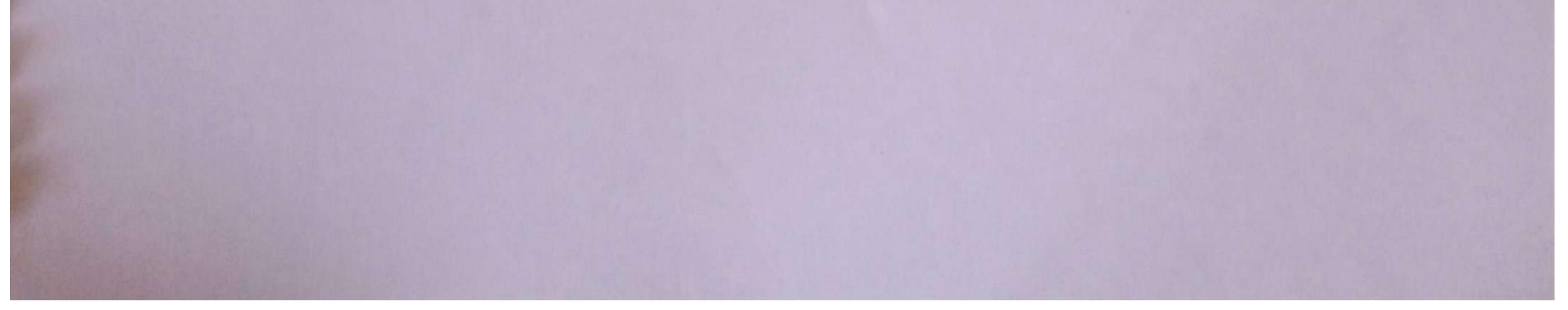
Women, Perumbavoor and that this work has not formed the basis of any academic

qualification of any other University or Board.





## Reg no: 190021011095





#### Reading Psychological Trauma in Stand Up

A project submitted to Mahatma Gandhi University in partial Fulfillment of the Degree of Bachelor of Arts in English Language and Literature (Model II

Administrative Assistant)



Submitted by

Shifana Nasrin.

Reg no 190021011085

Under the supervision of

Ms. Roshin T Roy

Assistant Professor

Department of English

#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

(2019-2022)

# MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

#### CERTIFICATE

This is to certify that the project titled "Reading Psychological Trauma in Stand Up" is a bonafile record of research work done by Ms. Shifana Nazrin (Reg No. 190021011085) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts in English Language and Literature (Model II Administrative Assistant) to Mahatma Gandhi University, Kottayam. The project has not been previously used for the award of any other similar titles of any other University or Board.

Dr. Sujo Mary Varghese

Ms. Chaithanya Elsa Achankunju

Ms. Roshin T. Roy

Project Supervisor

Principal

G

Head of the Department

Examini

#### DECLARATION

I, Shifana Nazrin, hereby declare that the project titled "Reading psychological Trauma in Stand Up" is a bona file record of research work done by me under the guidance of Ms. Roshin T Roy, Assistant Professor, Department of English, Mar Thoma College for Women. Perumbavoor, and that this work has not formed the basis of any academic qualifications of any other University of Board.

Place: Perumbavooor

Ms. Shifana Nazrin

Date: 16-05-2022

Reg No: 190021011085

### Representation of Transgender Identity in Njan Marykutty

A project submitted to Mahatma Gandhi University in partial fulfillment of theDegree of Bachelor of Arts in English Language and Literature (Model II Administrative

Assistant)



Submitted by

Vinaya Priya Venugopal

Reg No: 190021011096

Under the Supervision of

Ms. Roshin T Roy

Assistant Professor

Department of English

#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

(2019-2022)

#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

#### CERTIFICATE

This is to certify that the project titled "Representation of Transgender Identity in *Nian Marykutty*" is a bona fide record of research work done by Ms. Vinaya Priya Venugopal (RegNo:190021011096) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts in English Language and Literature (ModelII Administrative Assistant), to Mahatma Gandhi University, Kottayam. The projecthas not been previously used for the award of any other similar titles of any other University or Board.

RET

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Ms. Roshin T. Roy Project Supervisor

Ms. Chaithanya Elsa

Head of the Department

Dr. Sujo Mary Varghese

Principal

External Examiner

#### DECLARATION

1. Vinaya Priya Venugopal, hereby declare that the project titled "Representation of Transgender Identity in *Njan Marykutty*" is a record of research work done by me under the guidance of Ms. Roshin T. Roy, Assistant Professor, Department of English, Mar Thoma College for Women, Perumbavoor and that this work has not formed the basis of any academic qualifications of any other University or Board.

Place : Perumbavoor

Date : 16/05/ 2022

Ms. Vinaya Priya Venugopal

Reg. No: 190021011096

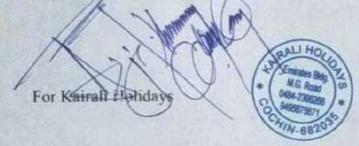


### TO WHOMSOVER IT MAY CONCERN

This is to certify that Ms. Geethu K R, student of B.Voc Tourism and Hospitality Management 2020-2023 oatch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021

During the tenure with us, we found her hardworking sincere and Honest. We have many appreciations regarding her work.

We wish her all success in her future endeavors.



\*AIR TICKET \* BUS BOOKING \* CAR RENTAL \* HOTEL BOOKING \* PASSPORT \* RAILWAY BOOKING \* TRAVEL INSURANCE \* VISA \* TOUR PACKAGE \* FOREIGN EXCHANGE \*

1



#### TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms. Praveena K** P, student of P Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

We wish her all success in her future endeavors.

ALI HOI Emirates Bk M.G. Road For Kinral Η¢ 84-236626



#### TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms. Jaseela Irshad**, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbayoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

We wish her all success in her future endeavors.





## TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms. Aisha K S**, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

We wish her all success in her future endeavors.

Fer Kairali Holidays



#### TO WHOMSOVER IT MAY CONCERN

This is to certify that Ms. Anaga T M, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, : neure and Honest. We have many appreciations regarding her work.

We wish her all success in her future endeavors.





## TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms. Annmariya George**, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

We wish her all success in her fattice endeavors. For Kairali Holiday



# TO WHOMSOVER IT MAY CONCERN

This is to certify that Ms. Ashwini M V, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

We wish her all success in her future endeavors.

LIHO M.G. Roal For Kairali Holiday



### TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms. Nandini B**, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

We wish her all success in her future endeavors.

HO Emirates Bld M G Road 484-2366266 For Kairali Holiday



## TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms. Jesmi A** *J* **student of B.Voc Tourism and Hospitality** Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

ALI HO

Mic Road

We wish her all success in her future endeavors.

For Karale Holidays

\*AIR TICKET \* BUS BOOKING \* CAR RENTAL \* HOTEL BOOKING \* PASSPORT \* RAILWAY BOOKING \* TRAVEL INSURANCE \* VISA \* TOUR PACKAGE \* FOREIGN EXCHANGE \*



TO WHOMSOVER IT MAY CONCERN

This is to cortify that **Ms. Meenu P P**, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

We wish her all success in her future endeavors.

For Karaki Holiday



# TO WHOMSOVER IT MAY CONCERN

This is to certify that Ms. Bhagyalakshmi Anil, student of B.Voc Tourism and Hospitality | Ianagement 2020-2023 batch of Mar Thoma College for Women Perumbayoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work

We wish her all success in her future endeavors. NLI HO For Kairali Holidays

\*AIR TICKET \* BUS BOOKING \* CAR RENTAL \* HOTEL BOOKING \* PASSPORT \* RAILWAY BOOKING TRAVEL INSURANCE \* VISA \* TOUR PACKAGE \* FOREIGN EXCHANGE \*

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#### TO WHOMSOVER IT MAY CONCERN

This is to certify the. Ms. Aneena Antony, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbayoor was successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.





### TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms. Anagha K S**, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her Lardworking, sincere and Honest. We have many appreciations regarding her work.

V HO

We wish her all success in her future endeavors.

For Kairali Holidays



#### TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms. Afnitha C A**, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

We wish her all uccess in her future endeavors.

For Kaira Holidays



Cochin-682035 Ph: 0484-2366266 email: info@kairaliholidays.com www.kairaliholidays.com

#### TO WHOMSOVER IT MAY CONCERN

This is to certify that Ms. Anjali C Murali, student of B Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbayoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

We wish her all success in her future endeavors.

NIHO MG Rep For Fairal, Holidays



# TO WHOMSOVER IT MAY CONCERN

This is to certify that Ms. Mary Maleesha M A, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

We wish her all success in her-future endeavors.





# TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms. Benna Molly Vargh**cse, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

We wish her all success in her fiture endeavors.

For Kairali Hohidays



# TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms. Fathima Majeed**, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

We wish her all success in her fature endeavors.





#### TO WHOMSOVER IT MAY CONCERN

This is to certify that Ms. Akhila Babu, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

We wish he all success in her future endeavors. M G Road For Laral Holidays



### TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms. Letta Jacob**, student of B.Voc Tourism and Hospitality Management 2020-2023 batch of Mar Thoma College for Women Perumbavoor has successfully completed her one month Internship Programme in our Organization from 01-11-2021 to 30-11-2021.

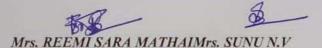
During the tenure with us, we found her hardworking, sincere and Honest. We have many appreciations regarding her work.

We wish her all success in her future endeavors. For Kairali ! Iolidays

# DEPARTMENT OF ZOOLOGY MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

#### CERTIFICATE

This is to certify that the dissertation "AN INVESTIGATIVE STUDY ON MOLLUSCAN DIVERSITY OF CHERAI BEACH" is an authentic record of the project work done by miss, AMRITHA SINGH. K during the academic year 2020- 2022, under my supervision and guidance in partial fulfilment of the requirement of the Degree of Master of Zoology and the report has not formed the basis for the award of any degree or diploma earlier.



Head of the DepartmentSupervising teacher Department of Zoology Department of zoology MarThoma College for WomenMar Thoma College for Women PerumbavoorPerumbavoor

**EXAMINERS** 

I. SUNU N.V , 2. fintumol Ray P



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#### DECLARATION

I hereby declare that this dissertation entitled "INVESTIGATIVE STUDY ON MOLLUSCAN DIVERSITY OF CHERAI BEACH" submitted to Mahatma Gandhi University Kottayam in the partial fulfilment for the award of Master of Science in Zoology is a bonafide record of the project work, carried out by me.. under the supervision of Mrs. SUNU N.V, Lecturer, Department of Zoology. Mar Thoma college for Women, Perumbavoor, no part of this has been presented earlier for any diploma, or similar title of any other university or institution.

Place: PERUMBAVOORAMRITHA SINGH K

Date:

### DEPARTMENT OF ZOOLOGY

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

#### CERTIFICATE

This is to certify that the dissertation " **DIVERSITY AND ENDEMISM OF BUTTERFLIES OF MANNAVAN SHOLA OF ANAMUDI SHOLA NATIONAL PARK IN THE WESTERN GHATS**" is an authentic record of the project work done by Miss. **DEEPIKA Y** during the academic year 2020 – 2022, under my supervision and guidance in partial fulfilment of the requirement of the Degree of Master of Zoology and the report has not formed the basis for the award of any degree or diploma earlier.

Mrs. REEMY SARA MATHAI

Assistant Professor Head of the Department Department of Zoology Mar Thoma College for Women Perumbavoor

#### EXAMINERS

1. Junlumol Raj P 2. SONAT JOSEPH

Mrs. SUNU N.V

Supervising teacher Department of Zoology Mar Thoma College for Women Perumbavoor



### DECLARATION

I hereby declare that this dissertation entitled " **DIVERSITY AND ENDEMISM OF BUTTERFLIES OF MANNAVAN SHOLA OF ANAMUDI SHOLA NATIONAL PARK IN THE WESTERN GHATS** " submitted to Mahatma Gandhi University Kottayam in the partial fulfilment for the award of Master of Science in Zoology, is a bonafide record of the project work carried out by me, under the supervision of **Mrs. Sunu N.V**, Lecturer, Department of Zoology, Mar Thoma College for Women, Perumbavoor. No part of this has been presented earlier for any degree, diploma or similar title of any other university or institution.

DEEPIKA

Place : Perumbavoor Date : 29 09 2022

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# DEPARTMENT OF ZOOLOGY MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

#### CERTIFICATE

This is to certify that the dissertation "STUDY OF DIVERSITY OF SOME COMMON EDIBLE FISHES IN THE PONNANI FISHING HARBOUR" is an authentic record of the project work done by Miss. JASEERA FAIROOSA. P under my supervision and guidance in partial fulfillment of requirement of the Degree of Master of Zoology and the report has not formed the basis for the award of any degree or diploma earlier.

Dr. REEMY SARA MATHAI Assistant Professor Head of Department of Zoology Mar Thoma College for Women Perumbayoor

Mrs. JINTUMOL RAJ. P

Supervising Teacher Department of Zoology Mar Thoma College for Women Perumbavoor

Examiners

2) Frotunol Rogp At



#### DECLARATION

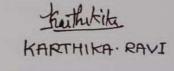
## I, KARTHIKA. RAVI, do hereby declare that, the project entitled "A STUDY ON THE ANT DIVERSITY OF WARD 12 VENGOLA PANCHAYATH, ERNAKULAM

to Mahathma Gandhi University, Kottayam in the partial fulfilment for the award of Master of Science in Zoology, is a bonafide record of the project work, carried out by me, under the supervision of Athira M, Lecturer, Department of Zoology, Marthoma college for women, Perumbavoor. No part of this has been presented earlier for any degree, diploma or similar title of any other University or institution.

2

Place:- PERUMBAVOOR

Date:- 29-09-2022



CULLEGE AN PERUMBAVE

## DECLARATION

I hereby declare that this dissertation entitled" A COMPARATIVE STUDY ON THE ODONATE DIVERSITY OF WETLANDS IN PUZHAKATTIRI PANCHAYATH, MALAPPURAM "submitted to Mahatma Gandhi University Kottayam in the partial fulfilment for the award of Master of Science in Zoology, is a bonafide record of the project work carried out by me, under the supervision of MISS ATHIRA.M Lecturer, Department of Zoology, Mar Thoma College for Women, Perumbavoor. No part of this has been presented earlier for any degree, diploma or similar title of any other university or institution.

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POOJA KRISHNAN.K

Place: Perumbavoor Date:.

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# DEPARTMENT OF ZOOLOGY MARTHOMA COLLEGE FOR WOMEN, PERUMBAVOOR.

## CERTIFICATE

This is to certify that the dissertation "A STUDY ON THE AVIAN DIVERSTIY OF THE PADDY FIELDS IN MARARIKULAM PANCHAYATH, ALAPPUZHA". is an authentic record of the project work done by miss, REVATHY.P.G, during the academic year 2020-2022, under my supervision and guidance in partial fulfilment of the requirement of the Degree of Master of Zoology and the report has not formed the basis for the award of any degree or diploma earlier.

Mrs. REEMY SARA MATHAI

Assistant Professor

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Head of the Department Zoology Marthoma College for Women Perumbavoor.

Miss. ATHIRA. M

Supervising teacher

Department of Zoology

Marthoma College for Women,



#### **EXAMINERS**

- 1. JINTUMOL RAJ P bypanop 2. SONAT JOSEPH but alacad

# DEPARTMENT OF ZOOLOGY MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

#### CERTIFICATE

This is to certify that the dissertation "A COMPARATIVE STUDY ON THE EFFECT OF COPPER SULPHATE & AMMONIUM SULPHATE IN THE GROWTH, SURVIVAL AND REPRODUCTION OF GUPPY (Poecilia reticulata)" is an authentic record of the project work done by Miss. SREELAKSHMI S during the academic year 2020 - 2022, under my supervision and guidance in partial fulfilment of the requirement of the Degree of Master of Zoology and the report has not formed the basis for the award of any degree or diploma earlier.

Mrs. REEMY SARA MATHAI

**Assistant Professor** Head of the Department **Department of Zoology** Mar Thoma College for Women Perumbayoor

EXAMINERS

1. SUNU N.V Sm 2. Fintumol Rog P Fintu

Ms. ATHIRA M

Supervising teacher

Department of Zoology

Mar Thoma College for Women



# CERTIFICATE

This is to certify that the dissertation titled " A STUDY ON DIVERSITY OF DRAGONFLIES IN VARAPPETTY PANCHAYATH " is an authentic record of the project work done by Miss SWATHY SASI under my supervision and guidance in partial fulfillment of the requirement of the Degree of Master Zoology and the report has not formed the basis for the award of any degree Or diploma earlier.

Mrs. REEMY SARA MATHAI Assistant Professor

Head of the Department

Mar Thoma college for women

Perumbavoor

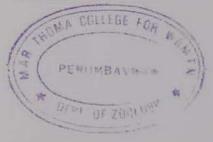
For THOMAS Mrs. JISSY

Supervising teacher

Department of Zoology

Mar Thoma college for women

Perumbavoor



#### **Examiners**:

1 JINTUMOL RAJ P Lingman P 2 SONAT JOSEPH Aut 201/09/2022

# DEPARTMENT OF ZOOLOGY MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

#### CERTIFICATE

This is to certify that the dissertation "Study on diversity of fishes in Thannermukom bund" is an authentic record of the project work done by Miss. TREESA MARY BOSE under my supervision and guidance in partial fulfillment of requirement of the Degree of Master of Zoology and the report has not formed the basis for the award of any degree or diploma earlier.

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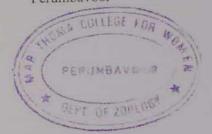
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Dr. REEMY SARA MATHAI Assistant Professor Head of Department of Zoology Mar Thoma College for Women Perumbavoor

Mrs. SUNU N V

Supervising Teacher Department of Zoology Mar Thoma College for Women Perumbavoor



Examiners

1) SUNU NV Sm 2) Fintuno Rg P Juten

### DEPARTMENT OF ZOOLOGY

### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### CERTIFICATE

This is to certify that the dissertation "A COMPARATIVE STUDY ON THE MOTH (LEPIDOPTERA: HETEROCERA) DIVERSITY IN SELECTED AREAS OF MALAPPURAM AND ERNAKULAM DISTRICTS" is an authentic record of the project work done by miss, VARSHA .V during the academic year 2020- 2022, under my supervision and guidance in partial fulfilment of the requirement of the Degree of Master of Zoology and the report has not formed the basis for the award of any degree or diploma earlier.

MIS. REEMY SARA MATHAI

Assistant Professor

Head of the Department

Department of Zoology

Mar Thoma College for Women.

Perumbavoor

FXAMINERS

1. SUNU NV and 2. Fisturoo (Raj P, Fint

Mrs. SUNU N.V Supervising teacher Department of Zoology Mar Thoma College for Women Perumbavoor



...

VARSHA.V

I hereby declare that this dissertation entitled " A COMPARATIVE STUDY ON THE MOTH (LEPIDOPTERA:HERETOCERA) DIVERSITY IN SELECTED AREAS OF MALAPPURAM AND ERNAKULAM DUSTRICTS" submitted to Mahatma Gandhi University Kottayam in the partial fulfilment for the award of Master of Science in Zoology is a bonafide record of the project work, carried out by me.. under the supervision of Mrs. SUNU N.V, Lecturer, Department of Zoology. Mar Thoma college for Women, Perumbavoor, no part of this has been presented earlier for any diploma, or similar title of any other university or institution.

Place: PERUMBAVOOR

Date:

I do here by declare that the dissertation "Study on diversity of fishes in Thannermukom bund" is a bonafide record of the project work carried by me, under the supervision of Mrs. SUNU N V, Department of Zoology, Mar Thoma College for Women, Perumbavoor. No part of this work dissertation has been presented earlier for any Degree, Diploma or Similar title of any other University or Institutions.

TREESA MARY BOSE

Place : Perumbavoor Date :

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I do hereby declare that this project entitled is the record of the study by me, in partial fulfillment of the requirement for the year degree in master of science, Zoology and which I am submitted this project as a record of original work done by me and has not been previously formed on the basis for the award of any academic qualification, fellowship or other similar title of any other university.

SWATHY SASI

Place: Perumbavoor

Date: 29/9 /2022

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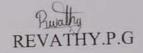
I hereby declare that this dissertation entitled "A COMPARATIVE STUDY ON THE EFFECT OF COPPER SULPHATE & AMMONIUM SULPHATE IN THE GROWTH, SURVIVAL AND REPRODUCTION OF GUPPY (*Poecilia reticulata*)" submitted to Mahatma Gandhi University Kottayam in the partial fulfilment for the award of Master of Science in Zoology, is a bonafide record of the project work carried out by me, under the supervision of Ms Athira M, Lecturer, Department of Zoology, Mar Thoma College for Women, Perumbavoor. No part of this has been presented earlier for any degree, diploma or similar title of any other university or institution.

Place : Perumbavoor

SREELAKSHMI S

Date :

I hereby declare that this dissertation entitled" "A STUDY ON THE AVIAN DIVERSTIY OF THE PADDY FIELDS IN MARARIKULAM PANCHAYATH, ALAPPUZHA". submitted to Mahatma Gandhi University Kottayam in the partial fulfilment for the award of Master of Science in Zoology is a bonafide record of the project work, carried out by me.. under the supervision of Miss. ATHIRA.M, Lecturer, Department of Zoology. Mar Thoma college for Women, Perumbavoor, no part of this has been presented earlier for any diploma, or similar title of any other university or institution.



Place: PERUMBAVOOR

Date: 29 - 9 - 2022

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I hereby declare that this dissertation entitled "A STUDY ON THE AVIAN DIVERSITY OF RANDAMPUNCHA WETLAND NEAR MANTHUKA, PATHANAMTHITTA" submitted to Mahatma Gandhi University Kottayam in the partial fulfilment for the award of Master of Science in Zoology, is a bonafide record of the project work carried out by me, under the supervision of Ms. Athira M, Lecturer, Department of Zoology, Mar Thoma College for Women, Perumbavoor. No part of this has been presented earlier for any degree, diploma or similar title of any other university or institution.

Place: Perumbavoor

**RESHMA R KURUP** 

Date:

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# DEPARTMENT OF ZOOLOGY

# MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### CERTIFICATE

This is to certify that the dissertation "A STUDY ON THE AVIAN DIVERSITY OF RANDAMPUNCHA WETLAND NEAR MANTHUKA, PATHANAMTHITTA" is an authentic record of the project work done by Miss. RESHMA R KURUP during the academic year 2020 - 2022, under my supervision and guidance in partial fulfilment of the requirement of the Degree of Master of Zoology and the report has not formed the basis for the award of any degree or diploma earlier.

Mrs. REEMY SARA MATHAI

Assistant Professor

Head of the Department

Department of Zoology Mar Thoma College for Women Perumbavoor

### EXAMINERS

1. SUNU N.V Bon 2. Fintund Raj P, Fintu

Ms. ATHIRA.M

Supervising teacher

Department of Zoology

Mar Thoma College for Women

Perumbavoor



# DEPARTMENT OF ZOOLOGY MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

# CERTIFICATE

This is to certify that the dissertation" A COMPARATIVE STUDY ON THE ODONATE DIVERSITY OF WETLANDS IN PUZHAKATTIRI PANCHAYATH, MALAPPURAM " is an authentic record of the project work done by Miss. POOJA KRISHNAN K during the academic year 2020-2022, under my supervision and guidance in partial fulfilment of the requirement of the Degree of Master of Zoology and the report has not formed the basis for the award of any degree or diploma earlier.

Mrs. REEMY SARA MATHAL

Assistant Professor. Head of the Department. Department of Zoology. Mar Thoma College for Women. Perumbavoor

MISS ATHIRA M Supervising Teacher ·Department of Zoology Mar Thoma College for Women Perumbavoor



### EXAMINERS

1. SUNU N.V Sou 2. Fistunol Reg P, Fish

# DEPARTMENT OF ZOOLOGY

# MARTHOMA COLLEGE FOR WOMEN PERUMBAVOOR

# CERTIFICATE

This is to certify that the dissertation entitled "A SURVEY ON ANT DIVERSITY IN DIFFERENT AREAS OF THURUTHIPLY, VARDNO.12, VENGOLA an authenticated record of project work carried out by "KARTHIKA. RAVI" during the Academic year 2021-2022 under my supervision and guidance in the Department of Zoology, in partial fulfillment of the requirement of the degree of Master of Science in Zoology and this report has not formed the basis for the award of any degree or diploma earlier.

Mrs. Reemy Sara Mathai Assistant professor Head of the Department Department of zoology Marthoma college for women

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Mrs. Athira. M.

Supervising Teacher Department of Zoology Marthoma college for Women, perumbavoor

# Examiners

1) SUNU NV, B 2) Fintumol Reg P, Finder

I do here by declare that the dissertation "STUDY OF DIVERSITY OF SOME COMMON EDIBLE FISHES IN THE PONNANI FISHING HARBOUR" is a bonafide record of the project work carried by me, under the supervision of Mrs. JINTUMOL RAJ. P, Department of Zoology, Mar Thoma College for Women, Perumbavoor. No part of this work dissertation has been presented earlier for any Degree, Diploma or Similar title of any other University or Institutions.

Place : Perumbavoor Date :

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JASEERA FAIROOSA. P

# CERTIFICATE

This is to certify that the dissertation entitled " STUDY OF BIRD DIVERSITY IN THE KALADY RANGE OF MALAYATTOR FOREST DIVISION" is an authentic record of the project work done by Miss ASWATHY VIJAYAN under my supervision and guidance in partial fulfillment of the requirement of the Degree of Master of Science in Zoology and this report has not formed on the basis of any award of degree or diploma earlier.

Mrs. Reemy Sara Mathai Head of the Department of Zoology Mar Thoma College for Women

Mrs. Sunu N V

Supervising teacher

Department of Zoology Mar Thoma College for Women

Jintumol Raj P Jayum P SONAT JOSEPH Jat Signature of Examiners 29/09/202

Place:

Date:

I hereby declare that this dissertation entitled "STUDY OF BIRD DIVERSITY IN THE KALADY RANGE OF MALAYATTOR FOREST DIVISION" submitted to Mahatma Gandhi University Kottayam in the partial fulfilment for the award of Master of Science in Zoology, is a bonafide record of the project work carried out by me, under the supervision of Mrs. Sunu N.V, Lecturer, Department of Zoology, Mar Thoma College for Women, Perumbavoor. No part of this has been presented earlier for any degree, diploma or similar title of any other university or institution.

Place : Perumbavoor

# ASWATHY VIJAYAN

Date : 29 8 2022

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### DEPARTMENT OF ZOOLOGY

### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### CERTIFICATE

This is to certify that the dissertation" CONSERVATION OF BUTTERFLIES THROUGH BUTTERFLY GARDEN, is an authentic record of the project work done by Miss. DIVYA K S, under my supervision and guidance in partial fulfillment of the requirement of the Degree of Master of Zoology and the report has not formed the basis for the award of any degree or diploma earlier.

Mrs. REEMY SARA MATHAI

Assistant Professor

Head of the department

Department of Zoology

Mar Thoma College for Women

Perumbayoor

hagenerit

Mrs. JINTUMOL.RAJ.P

Supervising teacher

Department of Zoology

Mar Thoma College for Women

Perumbavoor

Examiners: 1) SONAT JOSEPH 51 2022 2) SUNU N. V Sunda 2022

I DIVYA K S hereby declare that the dissertation entitled " CONSERVATION OF BUTTERFLIES THROUGH BUTTERFLY GARDEN" to Mahatma Gandhi University, Kottayam in partial fulfillment of the Master of Science in Zoology, is a bonafied record of studies carried out by me under the guidance and supervision of Mrs. JINTUMOL.RAJ P, Department of Zoology, Mar Thoma College For women Perumbavoor, and that it has previously formed on the basis for the award of any academic qualification, fellowship or other similar title of any other university.

Place: Perumbavoor

DIVYA KS

Date: 29/9/2022

### DEPARTMENT OF ZOOLOGY

# MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### CERTIFICATE

This is to certify that the dissertation "BUTTERFLY DIVERSITY AND THEIR HOST PLANTS INTERACTION IN IRINGOLKAVU" is an authentic record of the project work done by Miss. Fasana during the academic year 2020 – 2022, under my supervision and guidance in partial fulfilment of the requirement of the Degree of Master of Zoology and the report has not formed the basis for the award of any degree or diploma earlier.

### Mrs. REEMY SARA MATHAI

Assistant Professor Head of the Department Department of Zoology Mar Thoma College for Women Perumbavoor

Mrs. JINTU MOL RAJ P Supervising teacher Department of Zoology Mar Thoma College for Women Perumbavoor

### EXAMINERS

1. SONAT JOSEPH Auto 29/09/2022

I hereby declare that this dissertation entitled "BUTTERFLY DIVERSITY AND

THEIR HOST PLANTS INTERACTION IN IRINGOLKAVU " submitted to Mahatma Gandhi University Kottayam in the partial fulfilment for the award of Master of Science in Zoology, is a bonafide record of the project work carried out by me, under the supervision of

Mrs. Jintu mol Raj Lecturer, Department of Zoology, Mar Thoma College for Women,

Perumbavoor. No part of this has been presented earlier for any degree, diploma or similar title of any other university or institution.

Place : Perumbavoor

Fate :

# DEPARTMENT OF ZOOLOGY MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

# CERTIFICATE

This is to certify that the dissertation " COMPARATIVE STUDY ON ANT DIVERSITY IN THOMMANE TION AND PINEAPPLE THOMMANKUTHU FOREST AREA ,RUBBER PLANTATION AND PINEAPPLE. PLANTATION" is an authentic record of the project work done by miss, JITTO JOY during the academic the academic year 2021-2022, under my supervision and guidance in partial fulfillment of the requirement of the basis for the requirement of the Degree of Master of Zoology and the report has not formed the basis for the gward of and award of any degree or diploma earlier.

Mrs. REEMY SARA MATHAI

Assistant Professor

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Head of the Department of Zoology

Mar Thoma College for women Perumbavoor

Persterman

Mrs. JINTUMOL RAJ .P

Supervising teacher

Department of Zoology

Mar Thoma college for women

**EXAMINERS** 

1 SONAT JOSEPH but 2 SUNU N.V Salog 2022

I hereby declare that the dissertation entitled "COMPARATIVE STUDY ON ANT DIVERSITY IN THOMMANKUTUU ASSERTATION ENTITIES OF AND PINNEAPPLE IN THOMMANKUTHU FOREST AREA ,RUBBER PLANTATION AND PINNEAPPLE PLANTATION" submitted PLANTATION" submitted to Mahatma Gandhi University, Kottayam in partial fulfillment for the awardcof Master of the control of the corried out by me the awardcof Master of Science in Zoology, is a bonafide record of studies carried out by me under the supervision of Science in Zoology, and the supervision of studies carried out of zoology. Mar under the supervision of Mrs. JINTUMOL RAJ .P Lecturer, Department of zoology, Mar Thoma college for W Thoma college for Women, Perumbayoor, and that it has previously formed the basis for the award of any demonstration in the second seco award of any degree or diploma.

Place: Perumbavoor

JITTO JOY

Date:

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# DEPARTMENT OF ZOOLOGY

# MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### CERTIFICATE

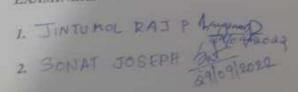
This is to certify that the dissertation "A COMPARITIVE STUDY ON THE LITTER FAUNA DIVERSITY IN MULTICROP AND MONOCROP AGROECOSYSTEMS IN MAZHUVANNOOR PANCHAYATH, ERNAKULAM" is an authentic record of the project work done by miss, SHALU REJU during the academic year 2020- 2022, under my supervision and guidance in partial fulfilment of the requirement of the Degree of Master of Zoology and the report has not formed the basis for the award of any degree or diploma earlier.

Mrs. REEMY SARA MATHAI Assistant professor Head of department zoology Marthoma College for women, Perumbavoor



supervising teacher department of zoology Marthoma College for women, Perumbavoor

### EXAMINERS



I hereby declare that this dissertation entitled " A COMPARITIVE STUDY ON THE LITTER FAUNA DIVERSITY IN MULTICROP AND MONOCROP AGROECOSYSTEMS IN MAZHUVANNOOR PANCHAYATH, ERNAKULAM" submitted to Mahatma Gandhi University Kottayam in the partial fulfilment for the award of Master of Science in Zoology is a bonafide record of the project work, carried out by me. under the supervision of Miss. ATHIRA M, Lecturer, Department of Zoology. Mar Thoma college for Women, Perumbavoor, no part of this has been presented earlier for any diploma, or similar title of any other university or institution.



Place: PERUMBAVOOR

Date: 29- 9-2022

### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### CERTIFICATE

This is to certify that the dissertation " A COMPARITIVE STUDY ON THE SEASONAL DIVERSITY OF COLEOPTERA IN IRINGOL KAVU EVERGREEN FOREST, ERNAKULAM" is an authentic record of the project work done by Miss. DEEPIKA Y during the academic year 2020 - 2022, under my supervision and guidance in partial fulfilment of the requirement of the Degree of Master of Zoology and the report has not formed the basis for the award of any degree or diploma earlier.

Mrs. REEMY SARA MATHAI Assistant Professor Head of the Department Department of Zoology Mar Thoma College for Women Perumbayoor

For the Mrs. JISSY THOMAS

Supervising teacher Department of Zoology Mar Thoma College for Women Perumbavoor

**EXAMINERS** 

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1. JINTUMOLRAS P Layrang 2. SONAT JOSEPH Aut 29/09/2022

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I hereby declare that this dissertation entitled " A COMPARITIVE STUDY ON THE SEASONAL DIVERSITY OF COLEOPTERA IN IRINGOL KAVU EVERGREEN FOREST. ERNAKULAM" submitted to Mahatma Gandhi University Kottayam in the partial fulfilment for the award of Master of Science in Zoology, is a bonafide record of the project work carried out by me, under the supervision of Mrs. JISSY THOMAS, Lecturer, Department of Zoology, Mar Thoma College for Women, Perumbavoor. No part of this has been presented earlier for any degree, diploma or similar title of any other university or institution.

SWATHY SAJIKUMAR

Place : Perumbavoor

Date :

### DEPARTMENT OF ZOOLOGY

### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

### CERTIFICATE

This is to certify that the dissertation "A COMPARATIVE STUDY ON THE BUTTERFLY DIVERSITY IN PALLARIMANGALAM PANCHAYATH AND VARAPPETTY PANCHAYATH OF ERNAKULAM DISTRICT KERALA" is an authentic record of the project work done by Miss.THASNI P M during the academic year 2020-2022, under my supervision and guidance in partial fulfilment of the requirement of the Degree of Master of Zoology and the report has not formed the basis for the award of any degree or diploma earlier.

Jangann

Mrs. JINTUMOL RAJ P Supervising teacher Department of Zoology Mar Thoma College for Women Perumbayoor

Mrs. REEMY SARA MATHAI

Assistant Professor

Head of the Department

Department of Zoology

Mar Thoma College for Women

Perumbayoor

**EXAMINERS** 

1. SONAT JOSEPH 240912022

2.

I hereby declare that this dissertation entitled "A COMPARATIVE STUDY ON THE BUTTERFLY DIVERSITY IN PALLARIMANGALAM PANCHAYATH AND VARAPPETTY PANCHAYATH OF ERNAKULAM DISTRICT KERALA" submitted to Mahatma Gandhi University Kottayam in the partial fulfilment for the award of Master of Science in Zoology, is a bonafide record of the project work carried out by me, under the supervision of Mrs. Jintumol Raj P, Lecturer, Department of Zoology, Mar Thoma College for Women, Perumbavoor. No part of this has been presented earlier for any degree, diploma or similar title of any other university or institution.

Place : Perumbavoor

Date :

THASNI P M

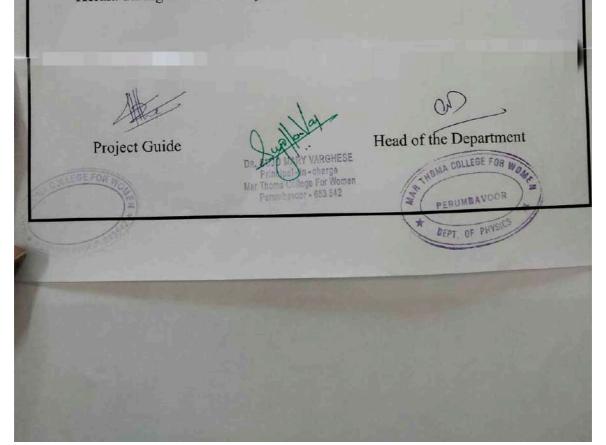
# MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(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.



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, Perumbavoor.

Place: Perumbavoor Date: 12/4/2022 Signature:

# MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(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.

(4)

Head of the Department

HUMA COLLEGE FOR

ERUMBAVOOR

DEPT OF PHY

Reformi Jaw Project Guide ma Collada For Women

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: duit

# DEPARTMENT OF PHYSICS MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

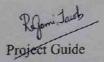
(Affiliated to Mahatma Gandhi University)



### 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



1 Page

Head of the Department



External Examiner

umbayoor - 683 540

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, Perumbavoor.

KHADEEJA M.H



2|Page

# MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(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

05 Head of the Department

AMA COLLEGE FUR

ERUMBAVOOI

DEPT OF PHYS

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, Perumbavoor.

Signature:

Place: Perumbavoor Date: 12 4 2022



# MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(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.

Perumbaydor - 683 542

Project Guide

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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, Perumbavoor.

Place: Perumbavoor Date: 12/4|2022 Signature: A

### MAR THOMA COLLEGE FOR WOMEN

### PERUMBAVOOR

(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.

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20 Head of the Department BIAA COLLEGE FOR W PERUMBAVOOR

DEPT

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**External Examiner** 

DR. **RY VARGHESE** Mar Thoma College For Viomen 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, Perumbavoor.

Date 18-5-2022 Place Perumbavoor

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2 2

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

Head of the Department

MA COLLEGE FO

ERUMBAVOO

DEPT DE PINY

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: Perumbavoor Date: (2/4/2022)

Signature: kahe

(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.

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Head of the Department

UNMA COLLEGE FOR

PERUMBAVOOR

BEPT OF PHYSIC

Project Guide

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: Alfry

#### MAR THOMA COLLEGE FOR WOMEN

#### PERUMBAVOOR

(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.

CD Project Guide

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Head of the Department



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, Perumbavoor.

Date 18/5/22 Place perumbarool

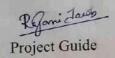
FATHIMA HAMSA

(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.



Head of the Department

HBMA COLLEGE FOR

PERUMBAVOOR

DEPT OF PHYCY

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, Perumbavoor.

Place: Perumbavoor Date: [8.05.2122 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

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Head of the Department

External Examiner



DR. Perumbaycor - 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, Perumbavoor.

Date: 18/5/22 Place: purumburoor

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M-C SURTA

(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.

CD Head of the Department Project Guide MA COLLEGE FOR ERUMBAVOOR BERT 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:



# MAR THOMA COLLEGE FOR WOMEN

#### PERUMBAVOOR

(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

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THEMA COLLEGE FOR PERUNA DEPT OF PHYCIC

DR. SUJO MARY VARGHESE Principal In charge Mar Thoma College For Women Perumbayoor - 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, Perumbavoor.

Date 18-5-2022 Place Perumbavoor

U U U

2



(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



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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: Perumbavoor Date: 12/04/2022



### MAR THOMA COLLEGE FOR WOMEN

#### PERUMBAVOOR

(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

DEPT OF PHYS

DR. SUJO MARY VARGHESE Principal In Joharge Mar Thoma College For Women Persinbayoor - 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, Perumbavoor.

Date 18-5-2022 Place Perumbavoor

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AKHINA K SUDHEESH

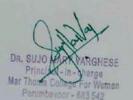
(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



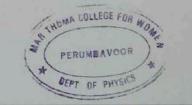
## CERTIFICATE

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.

20 Project Guide

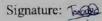


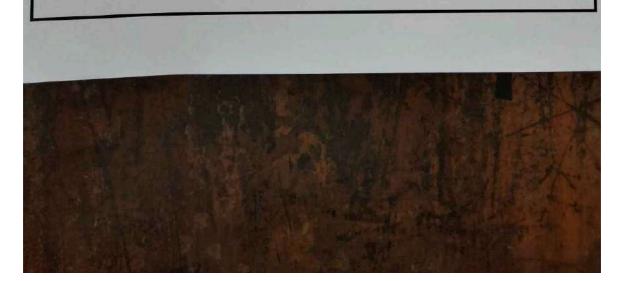
Head of the Department



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, Perumbavoor.

Place: Perumbavoor Date: 12/04/2022





(Affiliated to Mahatma Gandhi University)

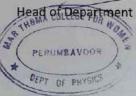


# CERTIFICATE

This is to certify that the project report entitled "HOME ENERGY AUDIT" is the bonafide work carried out by Ms. 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

Reform Jack Project Guide



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DR. SUJ

**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, Perumbavoor

Date: 18/05/2022 place: perumbavour

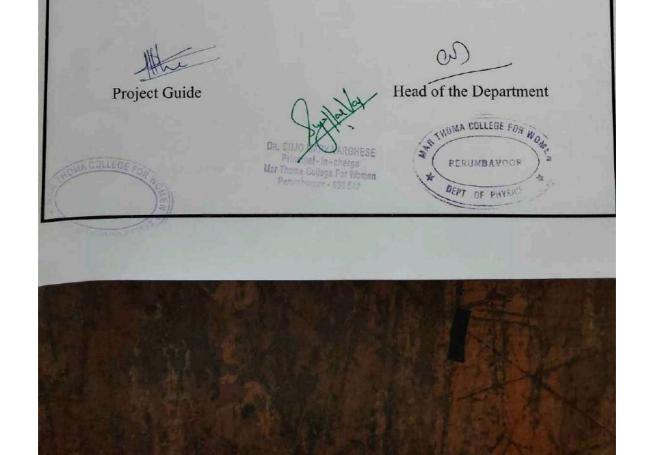
Adhila ks

(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.



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, Perumbavoor.

Place: Perumbavoor Date: 12/04 (2022

Signature: Moto



(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.

20 Head of the Department Project Guide AMA COLLEGE llege For Women PERUMBAVOOR avoor - 683 542 DEPT. OF PH

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

Signature:



#### MAR THOMA COLLEGE FOR WOMEN

#### PERUMBAVOOR

(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.



Project Guide

Head of the Department

Mar Thoma College For Wo Parimbayoor - 883 542

VARGH

**External Examiner** 

DR. S

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, Perumbavoor.

Date 18/5/2022 Place Powmbow005

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(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.

Reformi Jacob Head of the Department Project Guide THUMA COLLEGE FOR All PERUMBAVOOR Mar Thoma College For W DEPT OF PHYSI

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: 12.04.2022

Signature:



(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



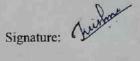
# CERTIFICATE

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.

20 Head of the Department Project Guide IMA COL FOR Odliege For Women Perumbayoor - 663 542 PERUMBAVOOF BEPT OF PI

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.





# 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.

Head of the Departmen

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Project Guide

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No

**External Examiner** 

GHESE

#### 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

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Forsana Astrop

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.

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Head of the Department

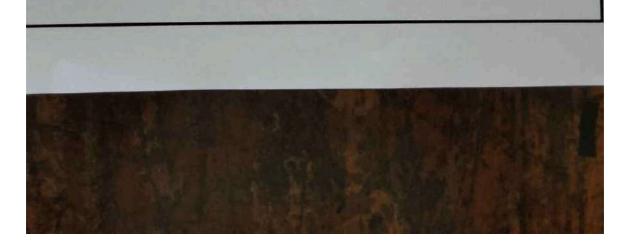
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DEPT. OF PINY

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: Perumbavoor Date: Signature:



(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

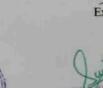
Head of the Department

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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

pate: 18-5-22 place : porambarcor AFRINM'K



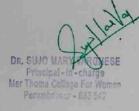
(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



#### 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.





Head of the Department

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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 Signature: Note



(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.

RO Head of the Department Project Guide AA COLLEGE FOR M Mar Thoma College For Women Perumbayoer - 683 542 PERUMBAVOOR GEPT

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.

Signature:

Place: Perumbavoor Date: | 2 | 4 | 2022



#### 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 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

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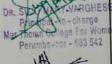
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> Head of the Department HOMA COLLEGE FO



PERUMBAVOOR DE PHYS

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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, Perumbavoor

Date: 18-05-2022 Place: Acrembaroos

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Horniterall AKHILENDU.T. ANIL

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)

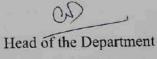


#### CERTIFICATE

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

DR. SU DA VARGHE Prompt - In-charge Mar Thoma Cottage For Wo Porumbavoor - 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, Perumbavoor.

Signature:

Place: Perumbavoor Date: 12/4/2072



#### MAR THOMA COLLEGE FOR WOMEN

#### PERUMBAVOOR

(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.

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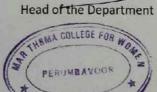
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Project Guide



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**External Examiner** 

DR. SUJO ) Prine Mar Thoma Colleg

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, Perumbavoor.

Date 18/5/22 Place Nalamile

FATHIMATH SANIYA

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



#### CERTIFICATE

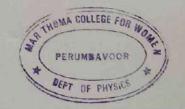
This is to certify that the project report entitled "Wireless EV Charging Station" is the bonafide work carried out by Ms. Farisha K.M. under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science of Mahatma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

Project Guide



Head of the Department

60





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, Perumbavoor.

Place: Perumbavoor Date: L | 4 | 22 Signature:

# Mar Thoma College for Women Perumbavoor

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(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 R Head of the Department **External Examiner Project** Guide PERUMBAVOOR BEPT OF PHYSIC

#### 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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Fathing Shiril Shiret 18/05/2022

(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





Head of the Department

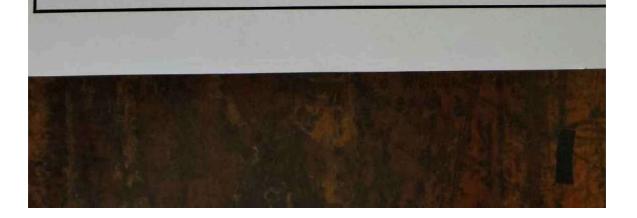




I, Sana Sayed, do hereby declare that this project report entitled "Resistivity of a semiconductor using four probe analysis" is a based on the original work and carried out by me under the Guidance of Dr. Melvi Chandy, Department of Physics, Mar Thoma College for Women, Perumbavoor.

Place: Perumbavoor Date: (2/4/2022)

Signature:



(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.

CN CP Project Guide Head of the Department HUMA COLLEGE FOR ERUMBAVOO EPT OF PHY

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, Perumbavoor.

Place: Perumbavoor Date: (2/4/2022). Signature: Another



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(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/ 3023 ARGHESE Head of the Department Project Guide **External Examiner** PERUMBAVOO DEPT OF PH

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)



#### CERTIFICATE

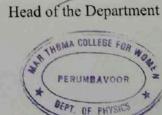
This is to certify that the project report entitled "Dielectric Constant of a Solid and Liquid" is the bonafide work carried out by Ms. Najiya A. A. under my guidance and supervision, as part of the curriculum of Bachelor of Science in Physics (Model II Applied Electronics) under the faculty of Science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

Project Guide

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(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.

idaw Head of the Department Project Guide WINA COLLEGE FOR PERUMBAVOOR DEPT OF PHY

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: Perumbavoor Date: 12/04/2022 Signature:

#### 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 : US es 2022

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# Mar Thoma College for Women Perumbavoor

(Affiliated to Mahatma Gandhi University)

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#### 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.

ON ect Guide Head of the Department **External Examiner** PERUMBAVOOR

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ARGHESE DR. S 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: Perumbavoor Date: |2|4|2022 Signature:



#### 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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"A STUDY ON DIGITAL TRANSFORMATION OF EDUCATION DURING THE COVID -19 PANDEMIC AND ITS PSYCHOLOGICAL EFFECTS ON UNDERGRADUATE STUDENTS IN KERALA"

A dissertation submitted to MAHATMA GANDHI UNIVERSITY, KOTTAYAM In partial fulfilment of the requirement for the award of BACHELOR DEGREE IN COMMERCE

Submitted By

Ann Mary Thomas [190021068104] Anu George [190021068105] Arsha Eldose [190021068107] Fahima Rafeeque [190021068109]

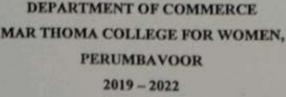
Under the guidance of

Ms. SERENE ANNA SAM Assistant Professor Department of Commerce





Principal - in - charge Mar Thoma Cellege Fer Women Perumbavoor - 683 642





# DEPARTMENT OF COMMERCE MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR



CERTIFICATE

This is to certify that the project entitled "A STUDY ON DIGITAL TRANSFORMATION OF EDUCATION DURING THE COVID -19 PANDEMIC AND ITS PSYCHOLOGICAL EFFECTS ON UNDERGRADUATE STUDENTS IN KERALA" is a record of research work jointly done by Kumari. ANN MARY THOMAS, Kumari. ANU GEORGE, Kumari. ARSHA ELDOSE, Kumari. FAHIMA RAFEEQUE in partial fulfilment of the requirement of the Degree of Bachelor in Commerce under my supervision and guidance and it is further certified that the project work is not previously used for the award of any other degree, diploma and fellowship or for awarding other similar title of recognition.

Ms. Serenc Anna Sam

Internal Project Guide

AHONA COLLEGE FOR DEPARTMENT OF COMMERCE Rain

Head of the Department

Ms Sherin T Abraham

External Examiner: Date: "A STUDY ON DIGITAL TRANSFORMATION OF EDUCATION DURING THE COVID -19 PANDEMIC AND ITS PSYCHOLOGICAL EFFECTS ON UNDERGRADUATE STUDENTS IN KERALA"

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A dissertation submitted to MAHATMA GANDHI UNIVERSITY, KOTTAYAM In partial fulfilment of the requirement for the award of BACHELOR DEGREE IN COMMERCE

Submitted By

Ann Mary Thomas [190021068104] Anu George [190021068105] Arsha Eldose [190021068107] Fahima Rafeeque [190021068109]

Under the guidance of

Ms. SERENE ANNA SAM Assistant Professor Department of Commerce



DEPARTMENT OF COMMERCE MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR 2019 – 2022

AVOON



Principal - in - charge Mar Thoma Collega For Women Perumbavoor - 603 642

# DEPARTMENT OF COMMERCE MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR



### CERTIFICATE

This is to certify that the project entitled "A STUDY ON DIGITAL TRANSFORMATION OF EDUCATION DURING THE COVID -19 PANDEMIC AND ITS PSYCHOLOGICAL EFFECTS ON UNDERGRADUATE STUDENTS IN KERALA" is a record of research work jointly done by Kumari. ANN MARY THOMAS, Kumari. ANU GEORGE, Kumari. ARSHA ELDOSE, Kumari. FAHIMA RAFEEQUE in partial fulfilment of the requirement of the Degree of Bachelor in Commerce under my supervision and guidance and it is further certified that the project work is not previously used for the award of any other degree, diploma and fellowship or for awarding other similar title of recognition.

Ms. Serene Anna Sam Internal Project Guide

External Examiner: Date:

Ms Sherin T Abraham

Head of the Department



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Date:



Ms Sherin T Abraham Head of the Department "A STUDY ON DIGITAL TRANSFORMATION OF EDUCATION DURING THE COVID -19 PANDEMIC AND ITS PSYCHOLOGICAL EFFECTS ON UNDERGRADUATE STUDENTS IN KERALA"

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Ms. Serene Anna Sam

Internal Project Guide

External Examiner: Date: Ms Sherin T Abraham

Head of the Department



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Ms. Serene Anna Sam Internal Project Guide

External Examiner:

Date:

Ms Sherin T Abrahan Head of the Department

## CUSTOMER SATISFACTION TOWARDS KOCHI METRO RAIL LIMITED

#### PROJECT REPORT

Submitted in Mahatma Gandhi University, Kottayam In partial fulfillment of the requirement for the award of the degree of BACHELOR OF COMMERCE

Submitted

By

 AKSA MARY THOMAS
 190021068102

 FATHIMATH SUHARA C. A. 190021068136

 KHADEEJA NAHADA M.Z.

 RAVEENA R.

 190021068141

Under the guidance of Mr. JIBIN SHIBU SAM (Assistant Professor of the Department of Commerce)



# MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR



(2019-2022)



Principal - in - charge Mar Thoma College For Women Perumbavoor - 603 642 MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR (2019-2022)



#### CERTIFICATE

This is to certify that the dissertation entitled "CUSTOMER SATISFACTION TOWARDS KOCHI METRO RAIL LIMITED" is a bonafide record of work done by Miss. Aksa Mary Thomas, Miss. Fathimath Suhara C.A., Miss. Khadeeja Nahada M.Z and Miss. Raveena R. submitted in partial fulfillment of the requirement for the award of degree of bachelor of commerce of Mahatma Gandhi University, Kottayam during the period 2022 under my supervision and guidance. It is further certified that the project is not previously used for the award of any degree diplomas fellowship or awarding other similar title of recognition. The project is worth submitted for the awards of degree of Bachelor of Commerce.

Internal project guide

Head of the Department

Submitted for the examination held on: 16 - 05 - 2022

External Examiner. HOMA CO

# CUSTOMER SATISFACTION TOWARDS KOCHI METRO RAIL LIMITED

#### **PROJECT REPORT**

Submitted in Mahatma Gandhi University, Kottayam In partial fulfillment of the requirement for the award of the degree of

### BACHELOR OF COMMERCE

Submitted

By

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 190021068102

 FATHIMATH SUHARA C. A. 190021068136
 KHADEEJA NAHADA M.Z.
 190021068138

 RAVEENA R.
 190021068141

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MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR (2019-2022)



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# MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(2019-2022)



#### CERTIFICATE

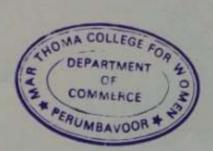
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Internal project guide

Head of the Department

Submitted for the examination held on: 16-05-2022

External Examiner:



## "A STUDY ON THE EFFECTIVENESS OF SOCIAL MEDIA ENTREPRENEURSHIP IN THE CONTEMPORARY WORLD"

Dissertation Submitted to

## MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirements for the award of Degree of

### BACHELOR OF COMMERCE

Submitted by

JIXA MATHEW (190021068112) KRISHNAPRIYA MANOJ (190021068113)

LAKSHMI SAJAN (190021068114)

LIJA JOHNSON (190021068115)

Under the guidance of

Mrs. DR. AVANI T

Assistant professor, Department of Commerce



# DEPARTMENT OF COMMERCE

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

2019-2022





Principal - in - charge Mar Thoma College For Women Perumbavoor - 803 642

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Internal Project Guide Examiner

Mrs. DR. Avani T

Place: Perumbavoor Date: 16-5.22-

Head of the Department

Mrs. Sherin T. Abraham



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## "A STUDY ON THE EFFECTIVENESS OF SOCIAL MEDIA ENTREPRENEURSHIP IN THE CONTEMPORARY WORLD"

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## DEPARTMENT OF COMMERCE

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOF

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Internal Project Guide Examiner

Mrs. DR. Avani T

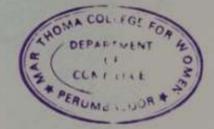
Place: Perumbavoor

Date: 16-5-22

Head of the Department



Mrs. Sherin T. Abraham



# A STUDY ON THE IMPACT OF CORPORATE SOCIAL RESPONSIBILITY ON THE FINANCIAL PERFORMANCE OF KITEX GARMENTS LIMITED, KIZHAKKAMBALAM

A dissertation submitted to

# MAHATMA GANDHI UNIVERSITY KOTTAYAM

In partial fulfilment of requirements for the award of

DEGREE OF BACHELOR OF COMMERCE

Submitted by

NIVYA RAJAN 190021068120

SWALIHA BACKER 190021068126

VEENA SURESH 190021068127

Under the guidance of

**DR. SUJO MARY VARGHESE** 

PRINCIPAL



## MAR THOMA COLLEGE FOR WOMEN

PERUMBAVOOR

(2019-2022)

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## DEPARTMENT OF COMMERCE

## MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(2019-2022)



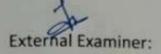
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Head of the Department

Internal project Guide

Submitted for the Examination held on 16-5-22



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A dissertation submitted to

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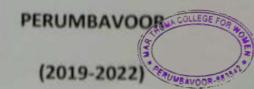
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# MAR THOMA COLLEGE FOR WOMEN



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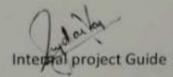
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Submitted for the Examination held on

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## A STUDY ON THE FINANCIAL PERFORMANCE

### OF M/S AMAL PLYWOOD, NELLIMOLAM,

#### PULLUVAZHY, PERUMBAVOOR

A dissertation submitted to

## MAHATMA GANDHI UNIVERSITY KOTTAYAM

in partial fulfilment of requirements for the award of

## BACHELOR DEGREE IN COMMERCE

Submitted by

Shilpa Sunny P

Shruthy Hariharan

Sneha Alice Jiju

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Under the guidance of

Dr. Sujo Mary Varghese



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Dr. Sujo Mary Varghese

Ms Sherin T Abraham

Head of the Department

Internal Project Guide

External Examiner:

Date: 16-05-2022



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Dr. Sujo Mary Varghese

Internal Project Guide



External Examiner:

Date: 16.05.0022.

Ms Sherin T Abraham

Head of the Department



# "AN ANALYSIS OF BANK EMPLOYEES OCCUPATIONAL STRESS WITH REFERENCE TO ERNAKULAM DISTRICT"

A dissertation submitted to

# MAHATHMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfilment of the requirement for the award of

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Submitted by

MALAVIKA S KARTHA (190021068116) MERLIN P S (190021068117) MUHZINA YOOSEPH (190021068118) NATHASHA C S (190021068119)

Under the guidance of

### Dr.AVANI. T







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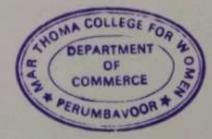
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External Examiner

Date 11-05-22

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Head of the Department



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### DEPARTMENT OF COMMERCE

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

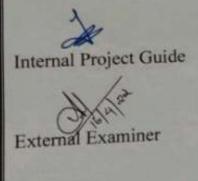
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Date

Head of the Department

Principal-in-ch Mar Thoma College For

## A STUDY ON IMPACT OF COVID 19 ON EDUCATIONAL SECTOR PARTICULARLY IN COLLEGES OF PERUMBAVOOR REGION

Project report submitted to

## MAHATHMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirements for the award of the degree of

Bachelor of Commerce Submitted by ALEENA JOSE(190021068103) NIKINA SAJI (190021068140) MERIN SHAJI(190021068139) GEETHU P M(190021068137)

Under the guidance of

MR JIBIN SHIBU SAM

Assistant professor, Department of Commerce



# DEPARTMENT OF COMMERCE

MARTHOMA COLLEGE FOR WOMEN PERUMBAVOOR



Principal - in - charge Mar Thoma College For Women Perumbavoor - 803 642

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MRS .SHERIN T ABRAHAM

(HEAD OF THE DEPARTMENT)

MR JIBIN SHIBU SAM (PROJECT GUIDE)

External Examiner

Place : Perumbavoor Date :  $\frac{16}{5}$ 



## A STUDY ON IMPACT OF COVID 19 ON EDUCATIONAL SECTOR PARTICULARLY IN COLLEGES OF PERUMBAVOOR REGION

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.............

MRS SHERIN T ABRAHAM (HEAD OF THE DEPARTMENT)

MR JIBIN SHIBU SAM

(PROJECT GUIDE)

External Examiner

Place : Perumbavoor Date : 16(5/22



"A STUDY ON 'GLASS CEILING EFFECT ON WOMEN' WHILE DEPLOYING MANAGERIAL ROLES IN IT SECTOR OF ERNAKULAM REGION"

A dissertation submitted to

#### MAHATHMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of

#### BACHELOR OF COMMERCE

Submitted by

ANITHA BENNY (190021068128)

ASNA A.A (190021068130)

### CHANDINI MALAVIKA (190021068133)

ELIZABETH CHACKO (190021068135)

Under the guidance of

Mrs. SHERIN T ABHRAHAM





Principal - in - charge Mar Thoma College For Women Perumbavoor - 883 542

DEPARTMENT OF COMMERCE

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2019 - 2022

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#### CERTIFICATE

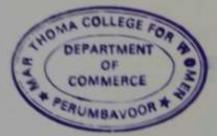
This is to certify that the project entitled "A STUDY ON 'GLASS CEILING EFFECT ON WOMEN' WHILE DEPLOYING MANAGERIAL ROLES IN IT SECTOR OF ERNAKULAM REGION" is a record of research work jointly done by Kumari. ANITHA BENNY, Kumari. ASNA A.A, Kumari. CHANDINI MALAVIKA, Kumari. ELIZABETH CHACKO in partial fulfillment of the requirement of the Degree of Bachelor of Commerce under my supervision and guidance and it is further certified that the project work is not previously used for the award of any other degree, diploma and fellowship or for awarding other similar title of recognition.

Internal Proyect (

External Examina

Date:

Head of the Department



"A STUDY ON 'GLASS CEILING EFFECT ON WOMEN' WHILE DEPLOYING MANAGERIAL ROLES IN IT SECTOR OF ERNAKULAM REGION"

A dissertation submitted to

## MAHATHMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of

## **BACHELOR OF COMMERCE**

Submitted by

ANITHA BENNY (190021068128)

ASNA A.A (190021068130)

CHANDINI MALAVIKA (190021068133)

ELIZABETH CHACKO (190021068135)

Under the guidance of

Mrs. SHERIN T ABHRAHAM





Principal - in - charge Mar Thoma Collega For Women Perumbavoor - 883 642

DEPARTMENT OF COMMERCE

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

2019 - 2022

# DEPARTMENT OF COMMERCE MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR



### CERTIFICATE

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Internal Project Guide

External Examiner

Date: 16 5 22



Head of the Department

# A STUDY ON IMPACT OF ONLINE FOOD DELIVERY APPLICATIONS DURING COVID PANDEMIC

# A Dissertation submitted to MAHATMA GANDHI UNIVERSITY

In partial fulfillment of the requirements for the award of the

### Degree in bachelor of commerce

#### Submitted by

APARNA A. S 19 ATHIRA REVI 19 BHADRA K.K 19 DEVA RANJINI K 19

190021068129 190021068131 190021068132 190021068134

Under the Guidance of Mrs. SHERIN T ABRAHAM



## MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

(2019-2022)





Principal - in - charge Mar Thoma College For Women Perumbavoor - 803 642

# MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR



### CERTIFICATE

This is to certify that the project "a study on impact of online food delivery applications during covid pandemic" is a bonafide record of research work done by Miss. Aparna A. S (190021068129), Miss. Athira Revi (190021068131), Miss. Bhadra K.K (190021068132), Miss Deva Ranjini K (190021068134) submitted in partial fulfillment of the requirement of Bachelor of Commerce Model 1 CBCSS of Mahatma Gandhi University, Kottayam during the period 2019-2022. Also certified that this project work has no formed part of any Degree/ Diploma Association/Fellowship or similar title by these candidates.

Internal project guide: Shaw

Head of department:

External examiner





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#### Submitted by

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Internal project guide: A

Head of department:

External examiner



### "A STUDY ON THE ATTITUDE OF PEOPLE TOWARDS GREEN PRODUCTS "

A dissertation submitted to

#### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of

#### **BACHELOR OF COMMERCE**

Submitted by ARATHI SAJI (190021068106) ASWATHY SREEKUMAR(190021068108) FATHIMA NAZRIN C I (190021068110) GOPIKA REGIKUMAR(190021068111)

Under the guidance of

Mrs. SERENE ANNA SAM





Principal - in - charge Mar Thoma College For Wome Perumbavoor - 863 642

DEPARTMENT OF COMMERCE

## MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

2019-2022

This is to certify that the project entitled "A STUDY ON THE ATTITUDE OF PEOPLE TOWARDS GREEN PRODUCTS" is a record of research work jointly done by Kumari. ARATHI SAJI, Kumari. ASWATHY SREEKUMAR, Kumari. FATHIMA NAZRIN C I, Kumari. GOPIKA REGIKUMAR in partial fulfillment of the requirement of the Degree of Bachelor of Commerce.

MRS. SHERIN T ABRAHAM (Head of the Department)

MRS. SERENE ANNA SAM (Project Guide)

External Examiner

Place : Perumbavoor Date:



## "A STUDY ON THE ATTITUDE OF PEOPLE TOWARDS GREEN PRODUCTS "

A dissertation submitted to

### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment of the requirement for the award of

#### **BACHELOR OF COMMERCE**

Submitted by

ARATHI SAJI (190021068106) ASWATHY SREEKUMAR(190021068108) FATHIMA NAZRIN C I (190021068110) GOPIKA REGIKUMAR(190021068111)

Under the guidance of

Mrs. SERENE ANNA SAM



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Principal - in - charge Mar Thoma College For Women Perumbavoor - 683 542

#### DEPARTMENT OF COMMERCE

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

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MRS. SHERIN T ABRAHAM (Head of the Department)

MRS. SERENE ANNA SAM (Project Guide)

External Examiner

Place : Perumbavoor Date:



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#### MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

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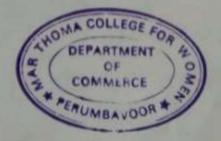
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MRS. SERENE ANNA SAM (Project Guide)

External Examiner

Place : Perumbavoor Date:



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MRS. SHERIN T ABRAHAM (Head of the Department)

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MRS. SÉRENE ANNA SAM (Project Guide)

External Examiner

Place : Perumbavoor Date:



This is to certify that the dissertation entitled "EFFECT OF OBESITY IN DAILY LIFE" is an authentic record of the project work done by Miss Maneesha Beegum P M (180021044438) under the supervision and guidance of Mrs. Reemy Sara Mathai in partial fulfilment of the requirement of the degree of Bachelor of science in Zoology and then report has not formed on the basis for the award of any degree or diploma earlier.

Mrs, Reemy Sara Mathai Supervising Teacher Department of Zoology

Mrs. Reemy Sara Mathai

Department of Zoology

Head of The Department

18 \$22.

Place: Perumbavoor

Date:

Examiner: 1

Valued and verified

2

Examiner: 2

This is to certify that the dissertation entitled "A STUDY ON THE IMPORTANCE OF DIAGNOSIS IN JOINT DISORDERS" is an authentic record of the project work done by Miss MAYOORI M B under my supervision and guidance in partial fulfillment of the requirement of the Degree of Bachelor of Science in Zoology and this report has not formed on the basis of any award of degree or diploma earlier.

MrsReemy Sara Mathai

Supervising teacher

Head of department of Zoology

Mar Thoma college for women

Perumbavoor

Place: Perumberoor

Date: 17-5-22

Signature of the Examiner

12-522. Au

This is to certify that the dissertation entitled "STUDY OF SPIDER DIVERSITY IN WARD 10 OF ASAMANNOOR GRAMAPANCHAYAT " is an authentic record of the project work done by Miss Fathima Kareem under my supervision and guidance vin partial fulfillment of the requirement of the Degree of Bachelor of Science in Zoology and this report has not formed on the basis of any award of degree or diploma earlier.



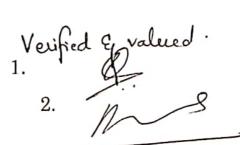
Mrs Reemy Sara Mathai

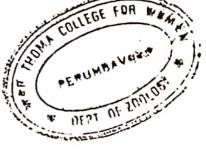
Supervising teacher Head of department of Zoology

Mar Thoma college for women

Perumbayoor

Place: Pur Conron. Date: 12/5/22. Signature of the examiner: 1.





This is to certify that the dissertation entitled "A STUDY ON THE POULTRY FARM IN KURUPPUMPADY PANCHAYAT IN PERUMBAVOOR" is an authentic record of the project work done by Ms Amalendu Rajan under my supervision and guidance in partial fulfilment of the requirement of the Degree of Bachelor of Science in Zoology and this report has not formed on the basis for the award of any degree or diploma earlier.

12-5-22

Dr Biju Jacob Tomas

Supervising Teacher

Department of Zoology

Mar Thoma College for Women, Perumbavoor

Signature of Examiners
1.
2.
Place: Perumbavoor
Date:

This is to certify that the dissertation entitled "A STUDY ON THE EFFECT OF DIFFERENT COLOURED LIGHT ON RED CORAL PLATY FISH" is an authentic record of the project work done by Miss Fathima Farzana and Ashlin Sabu under my supervision and guidance vin partial fulfillment of the requirement of the Degree of Bachelor of Science in Zoology and this report has not formed on the basis of any award of degree or diploma earlier

Dr. Biju Jacob Thomas Supervising Teacher Department of Zoology Mathoma College for Women

Mrs. Reemy Sara Mathai Head of the Department Department of Zoology Marthoma College for Women

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Signature of Examiner

This is to certify that the dissertation "STUDY ON BUTTERFLIES AND THEIR INTERACTION WITH PLANTS IN WARD XII OF KOTTAPPADY PANCHAYATH" is an authentic record of the project work done by Kumari. Hindbeevi A. M under my supervision and guidance in Zoology and the report has not been the basis for the award of any degree or diploma earlier

Mrs. Reemy sara Mathai

Supervising tr and HOD

Dept. of Zoology

Place:Perumbayoor

Date: 15-5 2

Signature of the examiner

21.



This is to certify that the dissertation entitled "A STUDY ON THE EFFECT OF DIFFERENT COLOURED LIGHT ON RED CORAL PLATY FISH" is an authentic record of the project work done by Miss Ashlin Sabu and Fathima Farzana under my supervision and guidance vin partial fulfillment of the requirement of the Degree of Bachelor of Science in Zoology and this report has not formed on the basis of any award of degree or diploma earlier.

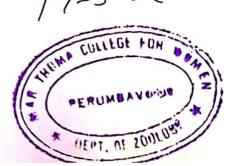
n

Dr. Biju Jacob Thomas Supervising Teacher Department of Zoology Mar Thoma College for Women

Mrs. Reemy Sara Mathai Head of the Department Department of Zoology Mar Thoma College for Women

Signature of Examiner:

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This is to certify that the project work entitled "A COMPARATIVE STUDYON THE DISTRIBUTION AND DIVERSITY OF ANTS IN DIFFERENT HABITATS OF PERUMBAVOOR MUNCIPALITY an authentic record of project work done by Miss. ALFIYA SHAJI under my supervision and guidance in partial fulfilment of required of the Degree of Bachelor of science in zoology and this report has not formed the basis of any award of any degree or diploma earlier.

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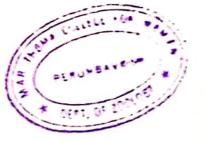
Dr. Biju Jacob Thomas Supervising Teacher Department of Zoology Mar Thoma College for Women

Reemy Sara Mathai Head of the Department Department of Zoology Mar Thoma College for Women

plued

Signature of Examiner

Place: Perumbaroor Date: 17/5/22



This is to certify that the dissertation entitled "A STUDY ON THE POULTRY FARM IN KURUPPUMPADY PANCHAYAT IN PERUMBAVOOR" is an authentic record of the project work done by Ms Aleena Mariyam George under my supervision and guidance in partial fulfilment of the requirement of the Degree of Bachelor of Science in Zoology and this report has not formed on the basis for the award of any degree or diploma earlier.

Dr Biju Jacob Tomas 17-5-22 Supervising Teacher Department of Zoology Mar Thoma College for Women, Perumbavoor

Valued 17-5-22 Signature of Examiners

- 1.
- 2.

Place: Perumbavoor Date:



This is to certify that this project work "A study on the bird diversity in 7<sup>th</sup> ward, keezhmad panchayath" is a bonafide record of the work carried out by Ms. Nabeela A.A under my guidance and supervision.

Guide: Mrs.Reemy Sara Mathai

Assistant Professor

Department of Zoology

Place: Perumbavoor

Date: 17-5-22

Signature of Examiners

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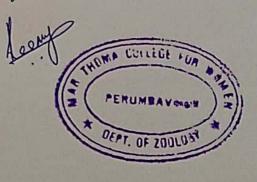
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2

This is to certify that the dissertation "A STUDY ON THE SURVEY OF JOINT DISORDERS WITH SPECIAL RELEVANCE TO RHEUMATOID ARTHRITIS" is an authentic record of the project work done by Dr. Biju Jacob Thomas under my supervision and guidance in partial fulfilment of the requirement of the Degree of Bachelor of Science in Zoology and then report has not formed the basis for award of any degree or diploma earlier.

Dr. Biju Jacob Thomas **Supervising Teacher** Dept. Of Zoology

Place: Perumbaroos volved products Date: 17-5-22 17-5-22



This is to certify that the dissertation entitled " A CASE STUDY ON MITOCHONDRIAL NEUROGASTROINTESTINAL ENCEPHALOMYOPATHY" is an authentic record of the project work done by Miss Shabana Kareem under my supervision and guidance in partial fulfillment of the requirement of the Degree of Bachelor of Science in Zoology and this report has not formed on the basis of any award of degree or diploma earlier.

Mrs Reemy Sara Mathai

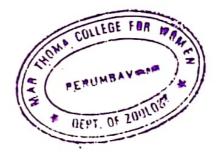
Supervising teacher

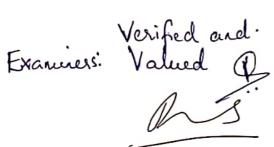
Head of department of Zoology

Mar Thoma college for women

Perumbavoor

Place: Perunbaroor. Date: 12 5 22 . Signature of the Candidate





This is to certify that the project work entitled "A COMPARATIVE

STUDY ON THE DISTRIBUTION AND DIVERSITY OF ANTS IN DIFFERENT HABITATS OF PERUMBAVOOR MUNCIPALITY an authentic record of project work done by Miss. FATHIMA SHAJI under my supervision and guidance in partial fulfilment of required of the Degree of Bachelor of science in zoology and this report has not formed the basis of any award of any degree or diploma earlier.

Dr. Biju Jacob Thomas Supervising Teacher Department of Zoology Mar Thoma College for Women

and

Reemy Sara Mathai Head of the Department Department of Zoology Mar Thoma College for Women

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Signature of Examiner Valued & verified

Place: Perunbaroor Date: 18/5/22.

2

This is to certify that the project "THE STUDY ON DRAGONFLY DIVERSITY IN WARD 14 OF KOOVAPPADY PANCHAYATH" is an authentic record of the project work done by Miss Sandra P.S. under my supervision and guidance in partial fulfillment of the requirement of the Degree of Bachelor of Science in Zoology and this report has not formed the basis of any award of any degree or diploma earlier.

> Mrs. Reemý Sara Mathai Supervising teacher Head of the Department Department of Zoology Mar Thoma College for Women

Place: Perumbaroor Date: 18/5/2

Signature of the Examiner:



This is to certify that the dissertation entitled "A STUDY IN MILLIPEDE THE DIVERSITY OF ON PEECHANICKAD, OF ANGAMALY WARD XXX MUNICIPALITY" is an authentic record of the project work done by Ms Siya Paul under my supervision and guidance in partial fulfilment of the requirement of the Degree of Bachelor of Science in Zoology and this report has not formed on the basis for the award of any degree or diploma earlier.

Mrs. Reemy Sara Mathai Supervising Teacher Department of Zoology Mar Thoma College for Women, Perumbavoor

Signature of Examiners

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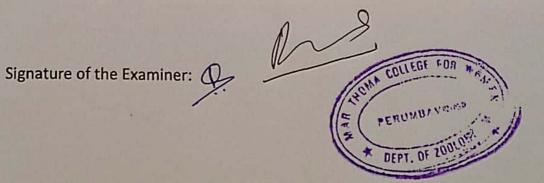


This is to certify that the project "THE STUDY ON PIG FARM MANAGEMENT AND ECONOMIC IMPORTANCE IN CHOORAMUDI, MEEMBARA" is an authentic record of the project work done by Miss Anjana Sajeev. under my supervision and guidance in partial fulfilment of the requirement of the Degree of Bachelor of Science in Zoology and this report has not formed the basis of any award of any degree or diploma earlier.

Dr.Biju Jacob Thomas Supervising teacher Department of Zoology Mar Thoma College for Women

Date:

Place: Perumbaroor 18 5 22.



This is to certify that the desertion A STUDY ON DAIRY FARM MANAGEMENT AND ECONOMIC IMPORTANCE OF A FARM IN RAYAMANGALAM PANCHAYATH is an authentic record of the project work done by Ms. NIDHY ANNA SUNNY in partial fulfilment of the requirement of the degree of bachelor of science in zoology and this report has to be formed on the basis of any award of degree earlier.

Ms. Reemy Sara Mathai Head Of The Department Of Zoology Marthoma College for Women

Date: 18/5/22 -

Place : perumbavoor

Signature of the Examiner 🖉

