

# St. Dominic's College, Kanjirapally



Details of Student Projects completed during the  
academic year 2021-2022.

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PROJECT REPORT SUBMITTED TO

MAHATMA GANDHI UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR  
THE AWARD OF THE

BACHELOR OF SCIENCE DEGREE IN MATHEMATICS

SUBMITTED BY,

SREELAKSHMI M SUNIL:190021035440

THERES JOSEPH:190021035455

ABHI VINOD:190021035423

UNDER THE SUPERVISION OF

PROF.SHIBU MANUEL

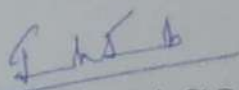


POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY  
2019-2022

POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST.DOMINIC'S COLLEGE KANJIRAPPALLY

CERTIFICATE

This is to certify that **Sreelakshmi M Sunil, Theres Joseph** and **Abhi Vinod** have undergone the B.Sc. Degree course at the post graduate Department of Mathematics, St.Dominic's College Kanjirappally and has undertaken the dissertation under the guidance of Prof. Shibu Manual. They are permitted to submit this project work to the University.

  
PROF. JISHA JACOB  
Head of the Department,  
Postgraduate Department of Mathematics

Head  
Postgraduate Department of Mathematics  
St. Dominic's College, Kanjirappally

Place: Kanjirappally

Date: 13/05/2022

PROJECT REPORT SUBMITTED TO

MAHATMA GANDHI UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR  
THE AWARD OF THE

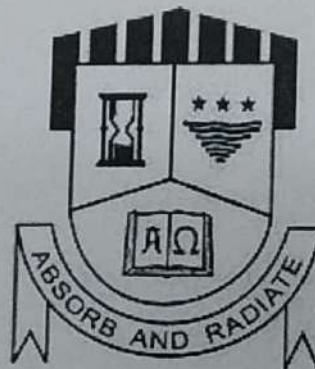
BACHELOR OF SCIENCE DEGREE IN MATHEMATICS

SUBMITTED BY,

SOBINA ROSE THOMAS:190021035438  
NITHYA JOSEPH :190021035436  
ADVAITHA S :190021035442

UNDER THE SUPERVISION OF

PROF.PRATHISH ABRAHAM



POST GRADUATE DEPARTMENT OF MATHEMATICS  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY  
2019-2022



POST GRADUATE DEPARTMENT OF MATHEMATICS  
ST.DOMINIC'S COLLEGE KANJIRAPPALLY

CERTIFICATE

This is to certify that **Sobina Rose Thomas , Nithya Joseph and Advaitha S** have undergone the B.Sc. Degree course at the post graduate Department of Mathematics, St. Dominic's College Kanjirappally and has undertaken the dissertation under the guidance of Prof. Prathish Abraham. They are permitted to submit this project work to the University.

  
PROF. JISHA JACOB

Head,  
Post Graduate Department of Mathematics

Head  
Postgraduate Department of Mathematics  
St. Dominic's College, Kanjirappally

Place: Kanjirappally

Date:

PROJECT REPORT SUBMITTED TO

MAHATMA GANDHI UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR  
THE AWARD OF THE

BACHELOR OF SCIENCE DEGREE IN MATHEMATICS

SUBMITTED BY,

CHRISTINA THOMAS:190021035430  
ANJANA RAJEEV :190021035426  
HASNA SHAMSUDEEN :190021035449

UNDER THE SUPERVISION OF

PROF.ANU JOY

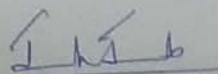


POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST. DOMINIC'S COLLEGE KANJIRAPALLY  
2019-2022

POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST.DOMINIC'S COLLEGE KANJIRAPALLY

CERTIFICATE

This is to certify that **Christina Thomas, Anjana Rajeev** and **Hasna Shamsudeen** have undergone the **B.Sc.Degree** course at the Postgraduate Department of Mathematics, St.Dominic's College Kanjirappally and has undertaken the dissertation under the guidance of Prof. Anu Joy. They are permitted to submit this project work to the University.

  
Prof. Jisha Jacob  
Head of the Department

Head  
Postgraduate Department of Mathematics  
St. Dominic's College, Kanjirappally

Place: Kanjirapally

Date: 13-05-2022



PROJECT REPORT SUBMITTED TO

MAHATMA GANDHI UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR  
THE AWARD OF THE

BACHELOR OF SCIENCE DEGREE IN MATHEMATICS

SUBMITTED BY.

'SHERIN CHINNU MATHEW:190021035437

ALEENA SEBASTIAN:190021035445

ATHIRA VIJAYAN :190021035446

UNDER THE SUPERVISION OF

PROF. SONY JOSEPH

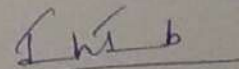


POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY  
2019-2022

POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST.DOMINIC'S COLLEGE KANJIRAPPALLY

CERTIFICATE

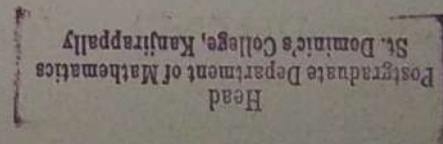
This is to certify that **Sherin Chinnu Mathew**, **Aleena Sebastian** and **Athira Vijayan** have undergone the B.Sc. Degree course at the Postgraduate Department of Mathematics, St.Dominic's College Kanjirappally and has undertaken the dissertation under the guidance of Prof. Sony Joseph. They are permitted to submit this project work to the University.



PROF. JISHA JACOB

Head of the Department

Postgraduate Department of Mathematics



Place: Kanjirappally

Date: 13/05/2022



PROJECT REPORT SUBMITTED TO  
MAHATMA GANDHI UNIVERSITY  
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR  
THE AWARD OF THE  
BACHELOR OF SCIENCE DEGREE IN MATHEMATICS

SUBMITTED BY,  
AKHITHA ELEZABETH THOMAS:190021035443  
MERINA ANTONY : 190021035435  
ASHA ROSE Mathew :190021035429

UNDER THE SUPERVISION OF  
PROF.RANI JOSE

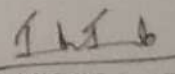


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2019-2022

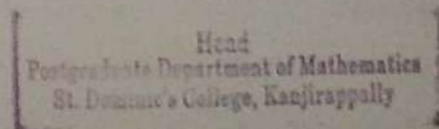
POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST.DOMINIC'S COLLEGE KANJIRAPPALLY

CERTIFICATE

This is to certify that Akhitha Elezabeth Thomas, Merina Antony and Asha Rose Mathew have undergone the B.Sc. Degree course at the post graduate Department of Mathematics, St.Dominic's College Kanjirappally and has undertaken the dissertation under the guidance of Prof. Rani Jose. They are permitted to submit this project work to the University.

  
PROF. JISHA JACOB

Head,  
PostGraduate Department of Mathematics



Place: Kanjirappally

Date: 13/5/2022



PROJECT REPORT SUBMITTED TO

MAHATMA GANDHI UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR  
THE AWARD OF THE

BACHELOR OF SCIENCE DEGREE IN MATHEMATICS

SUBMITTED BY,  
FATHIMA SAKKEER:190021035431  
NAYANTHARA PR:190021035452  
RIYA ANNA BINOY:190021035454

UNDER THE SUPERVISION OF

Dr.Shibu Manuel



POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY  
2019-2022

POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST.DOMINIC'S COLLEGE KANJIRAPALLY

CERTIFICATE

This is to certify that Fathima Sakkeer, Nayanthara PR and Riya Anna Binoy have undergone the B.Sc. Degree course at the postgraduate Department of Mathematics, St.Dominic's College Kanjirappally and has undertaken the dissertation under the guidance of Dr.Shibu Manuel They are permitted to submit this project work to the University.



PROF. JISHA JACOB  
Head Of The Department,  
PostGraduate Department of Mathematics

Head  
Postgraduate Department of Mathematics  
St. Dominic's College, Kanjirappally

Place: Kanjirapally

Date: 13/05/2022



PROJECT REPORT SUBMITTED TO  
MAHATMA GANDHI UNIVERSITY  
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR  
THE AWARD OF THE  
BACHELOR OF SCIENCE DEGREE IN MATHEMATICS

SUBMITTED BY,  
SOMI ELIZABETH SONY:190021035439  
RESHMA RAMESH :190021035453  
APARNA SURESH :190021035428

UNDER THE SUPERVISION OF  
PROF.ANU JOY

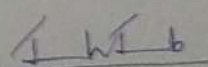


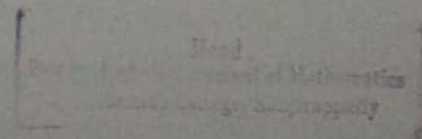
POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST. DOMINIC'S COLLEGE KANJIRAPALLY  
2019-2022

POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST.DOMINIC'S COLLEGE KANJIRAPALLY

CERTIFICATE

This is to certify that Somi Elizabeth Sony, Reshma Ramesh and Aparna Suresh have undergone the B.Sc.Degree course at the Postgraduate Department of Mathematics, St.Dominic's College Kanjirapally and has undertaken the dissertation under the guidance of Prof.Anu Joy. They are permitted to submit this project work to the University.

  
Prof. Jisha Jacob  
Head of the Department



Place: Kanjirapally

Date: 13-05-2022



PROJECT REPORT SUBMITTED TO

MAHATMA GANDHI UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR  
THE AWARD OF THE

BACHELOR OF SCIENCE DEGREE IN MATHEMATICS

SUBMITTED BY,

K.S NEERAJA :190021035451  
DONAMOL KURIAN:190021035448  
KALYANI A :190021035434

UNDER THE SUPERVISION OF

PROF.PRATHISH ABRAHAM




POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY  
2019-2022

POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST.DOMINIC'S COLLEGE KANJIRAPPALLY

CERTIFICATE

This is to certify that K.S Neeraja, Donamol Kurian and Kalyani A have undergone the B.Sc. Degree course at the postgraduate Department of Mathematics, St.Dominic's College Kanjirappally and has undertaken the dissertation under the guidance of Prof.Prathish Abraham . They are permitted to submit this project work to the University.

  
PROF. JISHA JACOB  
Head of the Department,  
Postgraduate Department of Mathematics

Place: Kanjirappally  
Date: 13/05/2022

Head  
Postgraduate Department of Mathematics  
St. Dominic's College, Kanjirappally



PROJECT REPORT SUBMITTED TO  
MAHATMA GANDHI UNIVERSITY  
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR  
THE AWARD OF THE  
BACHELOR OF SCIENCE DEGREE IN MATHEMATICS

SUBMITTED BY,  
ALEN CHACKO NEBU : 190021035425  
ANVARSHA M S : 190021035427

UNDER THE SUPERVISION OF  
PROF.SONY JOSEPH



POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY  
2019-2022

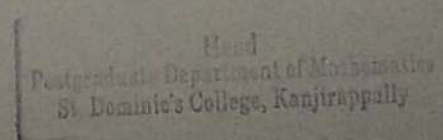
POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST.DOMINIC'S COLLEGE KANJIRAPPALLY

CERTIFICATE

This is to certify that **ALEN CHACKO NEBU** and **ANVARSHA M S** have undergone the B.Sc. Degree course at the post graduate Department of Mathematics, St.Dominic's College Kanjirappally and has undertaken the dissertation under the guidance of Prof. Sony Joseph. They are permitted to submit this project work to the University.

*Jisha Jacob*

**PROF. JISHA JACOB**  
Head of the Department,  
Postgraduate Department of Mathematics



Place: Kanjirappally  
Date: 13/05/2022



PROJECT REPORT SUBMITTED TO

MAHATMA GANDHI UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR  
THE AWARD OF THE

BACHELOR OF SCIENCE DEGREE IN MATHEMATICS

SUBMITTED BY,

ALBIN SAJI : 190021035424

ADHITHYAN P SAIBYAN : 190021035441

JOYAL JOHN : 190021035450

UNDER THE SUPERVISION OF

PROF. JISHA JACOB

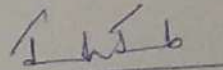


POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY  
2019-2022

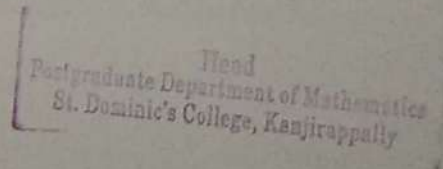
POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST.DOMINIC'S COLLEGE KANJIRAPPALLY

CERTIFICATE

This is to certify that ALBIN SAJI, ADHITHYAN  
P SAIBYAN JOYAL JOHN have undergone the  
B.Sc. Degree course at the post graduate Department  
of Mathematics, St.Dominic's College Kanjirappally and  
has undertaken the dissertation under the guidance of  
Prof. Sony Joseph. They are permitted to submit this  
project work to the University.



PROF. JISHA JACOB  
Head of the Department,  
Postgraduate Department of Mathematics



Place: Kanjirappally

Date: 13/05/2022

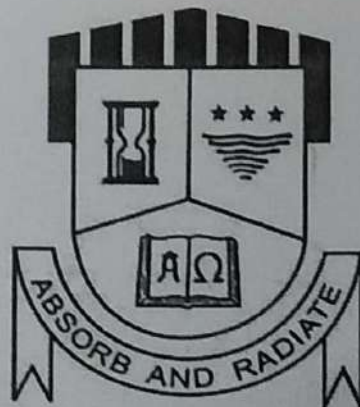


PROJECT REPORT SUBMITTED TO  
**MAHATMA GANDHI UNIVERSITY**  
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE AWARD OF THE  
**BACHELOR OF SCIENCE DEGREE IN MATHEMATICS**

SUBMITTED BY,

<b>ALEENA P HASHIM</b>	<b>190021035444</b>
<b>AYSHA K.S</b>	<b>190021035447</b>
<b>HELAN MARIYA JOSE</b>	<b>190021035432</b>

UNDER THE SUPERVISION OF  
**PROF. RANI JOSE**



**POSTGRADUATE DEPARTMENT OF MATHEMATICS**  
**ST.DOMINIC'S COLLEGE KANJIRAPPALLY**  
**2019-2022**

POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST.DOMINIC'S COLLEGE KANJIRAPPALLY

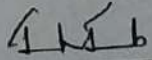
**CERTIFICATE**

This is to certify that **ALEENA P HASHIM** , **AYSHA K.S** ,  
and **HELAN MARIYA JOSE** have undergone the B.Sc  
Degree course at the post graduate Department of  
Mathematics , St. Dominic's College Kanjirappally and has  
undertaken the dissertation under the guidance of  
**Prof. RANI JOSE.**

They are permitted to submit this project work to the  
University.

Place : Kanjirappally

Date : 13/5/2022

  
**PROF. JISHA JACOB**

Head, Postgraduate Department  
Of Mathematics

Head  
Postgraduate Department of Mathematics  
St. Dominic's College, Kanjirappally



ST.DOMINIC'S COLLEGE

KANJIRAPPALLY

AFFILIATED TO

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

AN INTRODUCTION TO LIE ALGEBRAS

A DISSERTATION SUBMITTED TO

THE MAHATMA GANDHI UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF THE

DEGREE OF

MASTER OF SCIENCE IN MATHEMATICS

by

AAYISHAMOL SAIJU

Reg. No. 200011014573

Under the supervision of

Dr. SHIBU MANUEL

Postgraduate department of Mathematics

2020-2022

i





ST.DOMINIC'S COLLEGE KANJIRAPPALLY

Affiliated to

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

CERTIFICATE

This is to certify that AAYISHAMOL SAIJU has undergone the M.Sc. Degree course at the Postgraduate Department of Mathematics, St. Dominic's College, Kanjirappally and has undertaken the dissertation entitled "AN INTRODUCTION TO LIE ALGEBRAS" under the guidance of Dr. SHIBU MANUEL. She is permitted to submit this dissertation to the University.

Prof. Jisha Jacob

Head of the Department

Place: Kanjirappally

Date: 26 Sep 2022





ST.DOMINIC'S COLLEGE,  
KANJIRAPPALLY  
AFFILIATED TO  
MAHATMA GANDHI UNIVERSITY,KOTTAYAM

DOMINATION IN GRAPHS  
A DISSERTATION SUBMITTED TO  
THE MAHATMA GANDHI UNIVERSITY  
IN PARTIAL FULFILMENT OF THE REQUIREMENTS  
FOR THE AWARD OF THE DEGREE OF  
MASTER OF SCIENCE IN MATHEMATICS

BY

**AHALYA GUNASEKHARAN**

Reg.No.200011014574

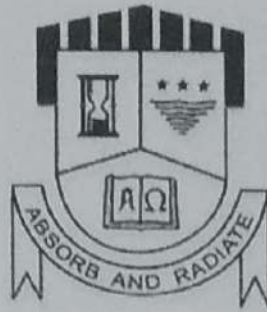
Under the supervision of

**Prof.SONY JOSEPH**

Postgraduate department of Mathematics

2020-2022

i




ST.DOMINIC'S COLLEGE KANJIRAPPALLY

Affiliated to

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

**CERTIFICATE**

This to certify that AHALYA GUNASEKHARAN has undergone the M.Sc degree course at the Postgraduate Department of Mathematics, St. Dominic's College, Kanjirappally and undertaken the dissertation entitled "DOMINATION IN GRAPHS" under the guidance of Prof. SONY JOSEPH. She is permitted to submit this dissertation to the university.

  
Prof. JISHA JACOB

Head

Postgraduate department of Mathematics

St. Dominic's college, Kanjirappally

Kanjirappally

26-09-2022



**ST. DOMINIC'S COLLEGE KANJIRAPPALLY**  
AFFILIATED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM

**A BRIEF STUDY ON FREE GROUPS**

A DISSERTATION SUBMITTED TO

**THE MAHATMA GANDHI UNIVERSITY**

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS

FOR THE AWARD OF THE DEGREE OF

**MASTER OF SCIENCE IN MATHEMATICS**

BY

**ALHASEENA JABBAR**

Reg.No:200011014575

Under the supervision of

**Prof. Anu Joy**

Postgraduate Department of Mathematics

2020-2022





POSTGRADUATE DEPARTMENT OF MATHEMATICS  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY  
Affiliated to MAHATMA GANDHI UNIVERSITY, KOTTAYAM

## CERTIFICATE

This is to certify that **ALHASEENA JABBAR** has undergone the M.Sc degree course at the Postgraduate department of Mathematics, St. Dominic's College, Kanjirappally and undertaken the dissertation entitled **A BRIEF STUDY ON FREE GROUPS** under the guidance of Prof. Anu Joy. She is permitted to submit this dissertation to the university.

Prof. Jisha Jacob

Head of the Department

Place: Kanjirappally

Date: 26/09/2022



ST. DOMINIC'S COLLEGE  
KANJIRAPPALLY

AFFILIATED TO  
MAHATMA GANDHI UNIVERSITY, KOTTAYAM

A STUDY ON ENERGY OF GRAPH  
A DISSERTATION SUBMITTED TO  
MAHATMA GANDHI UNIVERSITY  
IN PARTIAL FULFILMENT OF THE REQUIREMENTS  
FOR THE AWARD OF THE DEGREE OF  
MASTER OF SCIENCE IN MATHEMATICS

BY

ANGEL MARIA JOSE

Reg.No:200011014576

Under the supervision of  
Prof. PRATHISH ABRAHAM  
Postgraduate Department of Mathematics

2020-2022

i



ST. DOMINIC'S COLLEGE KANJIRAPPALLY  
Affiliated to  
MAHATMA GANDHI UNIVERSITY KOTTAYAM

CERTIFICATE

This is to certify that **ANGEL MARIA JOSE** has undergone the M.Sc Degree course at the Postgraduate department of Mathematics. St.Dominic's College Kanjirappally and taken the dissertation entitled "**A STUDY ON ENERGY OF GRAPH**" under the guidance of Prof. Prathish Abraham. She is permitted to submit this dissertation to the university.

Prof. Jisha Jacob

Head

Postgraduate Department of Mathematics

St.Dominic's College, Kanjirappally

Place: Kanjirappally

Date: 26 09 2022





**ST.DOMINIC'S COLLEGE**

**KANJIRAPALLY**

**AFFILIATED TO**

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**HYPERGRAPHS**

**A DISSERTATION SUBMITTED TO**

**THE MAHATMA GANDHI UNIVERSITY**

**IN PARTIAL FULFILLMENT OF THE REQUIREMENTS**

**FOR THE AWARD OF THE DEGREE OF**

**MASTER OF SCIENCE IN MATHEMATICS**

**BY**

**ANUSHA DHANARAJ**

**Reg.No:200011014577**

**Under the supervision of**

**Prof. Rani Jose**

**Postgraduate Department of Mathematics**

**2020-2022**

**1**



**ST.DOMINIC'S COLLEGE, KANJIRAPALLY**

Affiliated to

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**CERTIFICATE**

This is to certify that **ANUSHA DHANARAJ** has undergone the M.Sc degree course at the Postgraduate department of Mathematics, St. Dominic's college, Kanjirappally and undertaken the dissertation entitled "**HYPERGRAPHS**" under the guidance of **Prof. Rani Jose**. She is permitted to submit this dissertation to the university.

**Prof. Jishā Jacob**

Head of the Department

Postgraduate Department of Mathematics

St.Dominic's College, Kanjirapally

Place: Kanjirapally

Date: 26/09/2022





**ST. DOMINIC'S COLLEGE**  
**KANJIRAPPALLY**  
AFFILIATED TO  
**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**SPECTRAL GRAPH THEORY**  
A DISSERTATION SUBMITTED TO  
**THE MAHATMA GANDHI UNIVERSITY**  
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE AWARD OF THE DEGREE OF  
**MASTER OF SCIENCE IN MATHEMATICS**

BY

**ARSHA M S**

Reg.No:200011014578

Under the supervision of

**Prof. PRATHISH ABRAHAM**

Postgraduate Department of Mathematics

2020-2022

1



ST. DOMINIC'S COLLEGE, KANJIRAPPALLY

Affiliated to

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

### CERTIFICATE

This is to certify that ARSHA M S has undergone the M.Sc degree course at the Post-graduate department of Mathematics, St. Dominic's college, Kanjirappally and undertaken the dissertation entitled "SPECTRAL GRAPH THEORY" under the guidance of Prof. Prathish Abraham. She is permitted to submit this dissertation to the university.

Prof. Jisha Jacob

Head

Postgraduate Department of Mathematics

St. Dominic's College, Kanjirappally

Place: Kanjirappally

Date: 26/09/2022



# **ST.DOMINIC'S COLLEGE**

**KANJIRAPPALLY**

**AFFILIATED TO**

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**BILINEAR FORMS**

**A DISSERTATION SUBMITTED TO**

**THE MAHATMA GANDHI UNIVERSITY**

**IN PARTIAL FULLFILMENT OF THE REQUIREMENTS**

**FOR THE AWARD OF THE DEGREE OF**

**MASTER OF SCIENCE IN MATHEMATICS**

**BY**

**ATHIRA RAJAN**

**Reg No.:200011014579**

**Under the supervision of**

**Dr.SHIBU MANUEL**

**Postgraduate Department of Mathematics.**

**2020-2022**






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**Affiliated to**

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**CERTIFICATE**

This is to certify that **ATHIRA RAJAN** has undergone the M.Sc. Degree course at the Postgraduate Department Of Mathematics, St. Dominic's College Kanjirappally and has undertaken the dissertation under the guidance of **Dr.SHIBU MANUEL**. She is permitted to submit this dissertation to the University.

  
**Prof. Jisha Jacob**

Head

Postgraduate Department of Mathematics

St.Dominic' College kanjirappally

Place: Kanjirappally

Date:26/09/2022



**ST.DOMINIC'S COLLEGE**

**KANJIRAPPALLY**

**AFFILIATED TO**

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**HOMOMORPHISM OF GRAPHS**

**A DISSERTATION SUBMITTED TO**

**THE MAHATMA GANDHI UNIVERSITY**

**IN PARTIAL FULFILLMENT OF THE REQUIREMENTS**

**FOR THE AWARD OF THE DEGREE OF**

**MASTER OF SCIENCE IN MATHEMATICS**

**BY**

**BIBIN THOMAS**

Reg.No:200011014580

Under the supervision of

**Prof. JISHA JACOB**

Postgraduate Department of Mathematics

2020-2022



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**Prof. Jisha Jacob**

Postgraduate Department of Mathematics

Place: Kanjirappally

Date: 26/09/2022





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**STUDY ON ANTIMEDIAN GRAPHS**

**A DISSERTATION SUBMITTED TO**

**THE MAHATMA GANDHI UNIVERSITY**

**IN PARTIAL FULFILLMENT OF THE REQUIREMENTS**

**FOR THE AWARD OF THE DEGREE OF**

**MASTER OF SCIENCE IN MATHEMATICS**

**BY**

**SANDRA MANUEL**

**Reg.No:200011014581**

**Under the supervision of**

**Prof. SONY JOSEPH**

**Postgraduate Department of Mathematics**

**2020-2022**

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Place: Kanjirappally

Date: 26/09/2022



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**AFFILIATED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**A STUDY ON MAGIC MAGIC GRAPHS**

A DISSERTATION SUBMITTED TO  
**THE MAHATMA GANDHI UNIVERSITY**  
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE AWARD OF THE DEGREE OF  
**MASTER OF SCIENCE IN MATHEMATICS**

BY

**SHIFANA. P. NOUSHAD**

Reg.No:200011014582

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**Prof. ANU JOY**

Postgraduate Department of Mathematics

2020-2022





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Prof. Jisha Jacob

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**INTRODUCTION TO GRACEFUL GRAPHS**

**A DISSERTATION SUBMITTED TO**

**THE MAHATMA GANDHI UNIVERSITY**

**IN PARTIAL FULFILLMENT OF THE REQUIREMENTS**

**FOR THE AWARD OF THE DEGREE OF**

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**BY**

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Prof. Jisha Jacob

Head

Postgraduate Department of Mathematics

St.Dominic's College, Kanjirapally

Place: Kanjirapally

Date: 26/09/2022



# RESONANT INDUCTIVE COUPLING: A METHOD FOR LONG DISTANCE WIRELESS POWER TRANSFER

PROJECT REPORT SUBMITTED TO

*MAHATMA GANDHI UNIVERSITY*

IN PARTIAL FULFILMENT OF THE REQUIREMENTS

FOR THE AWARD OF THE

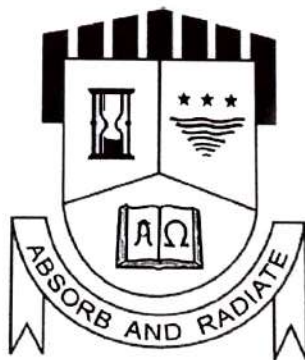
BACHELOR OF SCIENCE DEGREE

IN PHYSICS

SUBMITTED BY

AISHWARYA PRADEEP

(Reg. No. 190021038913)



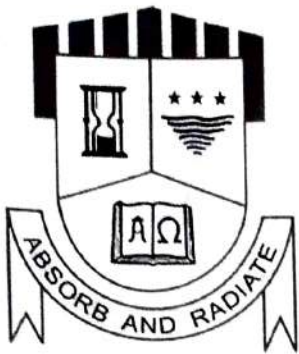
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ST. DOMINIC'S COLLEGE KANJIRAPALLY

2019-2022

Under the guidance of

Prof. AJITH THOMAS



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This is to certify that, the project entitled ***“RESONANT INDUCTIVE COUPLING: A METHOD FOR LONG DISTANCE WIRELESS POWER TRANSFER”*** is an authentic record of the project carried out by **AISHWARYA PRADEEP, (Reg. No. 190021038913)** on partial fulfilment of the requirement for the award of the B.Sc. Degree in Physics of Mahatma Gandhi University, in the Department of Physics, St. Dominic's College Kanjirapally, during the year 2019-2022.

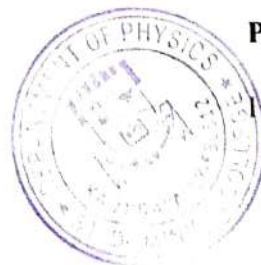
*Ajith*  
9/5/22

**Prof. Ajith Thomas**

Project Guide

**Prof. Nelson Kuriakose**

Head of The Department



**ELECTROMAGNETIC SPECTRUM AND**  
**OPTICAL TRANSMITTANCE**

**BSc PHYSICS**

**RECORD OF PROJECT WORK**



Submitted by  
**AJAY BIJU**  
(Reg.No:190021038914)

Guided by,  
**Prof .NELSON KURIAKOSE**

**ST. DOMINIC'S COLLEGE KANJIRAPALLY**  
**BATCH(2019-2022)**



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Signature of the guide:



Name of the guide : Prof. NELSON KURIAKOSE

Signature of the HOD:



Name of the HOD : Prof. NELSON KURIAKOSE

Department Seal :



External in charge :

**LASER SECURITY ALARM**  
**PROJECT REPORT SUBMITTED TO**  
**MAHATMA GANDHI UNIVERSITY**  
**IN PARTIAL FULFILMENT OF THE**  
**REQUIREMENTS FOR THE AWARD OF THE**  
**BACHELOR OF SCIENCE**  
**DEGREE IN PHYSICS**

**SUBMITTED BY**

**AKHIL ASHOK**  
(REG NO. 190021038915)



**DEPARTMENT OF PHYSICS**

**ST. DOMINIC'S COLLEGE, KANJIRAPALLY**

**2019-2022**

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**Mr. AJITH THOMAS**  
Project guide

  
**Prof: NELSON KURIAKOSE**  
Head of the department

*Aashok*  
*9/5/22*

**External Examiner**





# **AUTOMATIC HEADLIGHT DIMMER**

PROJECT REPORT SUBMITTED TO

**MAHATMA GANDHI UNIVERSITY**

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE

**BACHELOR OF SCIENCE DEGREE IN PHYSICS**

SUBMITTED BY

**ALAN MATHEWS**

(REG NO. 190021038916)



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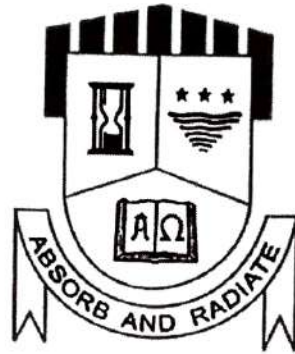
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2019-2022

Under the guidance of

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**Mr. AJITH THOMAS**

**Project guide**

*Amb*  
*9/5/22*

  
**Prof. NELSON KURIAKOSE**

**Head of the Department**

  
**Examiner**

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IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE AWARD OF THE DEGREE OF*

**BACHELOR OF SCIENCE**

IN

**PHYSICS**

SUBMITTED BY

**AMEENUL ZAKHEER (REG.NO:190021038917)**



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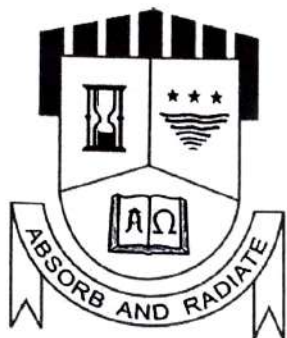
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2019-2022

GUIDED BY

MR.AJITH THOMAS





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*Ajith*  
3/5/22

Ajith Thomas  
Project Guide

Prof. Nelson Kuriakose  
Head Of The Department



# **LPG GAS DETECTOR**

PROJECT REPORT SUBMITTED TO  
**MAHATMA GANDHI UNIVERSITY**

IN PARTIAL FULFILMENT OF THE  
REQUIREMENTS FOR THE AWARD OF THE

**BACHELOR OF SCIENCE  
DEGREE IN PHYSICS**

SUBMITTED BY

**ANAGHA JEBY**  
(REG NO: 190021038918)



DEPARTMENT OF PHYSICS

ST.DOMINIC'S COLLEGE, KANJIRAPALLY

2019-2022

Under the guidance of

**Prof. NELSON KURIAKOSE**

**DEPARTMENT OF PHYSICS  
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**Prof. NELSON KURIAKOSE**  
Project guide

**Prof. NELSON KURIAKOSE**  
Head of the department

**External Examiner**





**ELECTROMAGNETIC SPECTRUM AND**  
**OPTICAL TRANSMITTANCE**

**BSc PHYSICS**

**RECORD OF PROJECT WORK**



Submitted by  
**BILAL MUHAMMED**  
(Reg.No:190021038920)

Guided by,  
**Prof .NELSON KURIAKOSE**

**ST. DOMINIC'S COLLEGE KANJIRAPALLY**  
**BATCH(2019-2022)**

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Name of the guide : Prof. NELSON KURIAKOSE

Signature of the HOD:



Name of the HOD : Prof. Nelson Kuriakose.

Department Seal :

External in charge :





**DEPARTMENT OF PHYSICS**

ST. DOMINIC'S COLLEGE

KANJIRAPALLY

2019-2022

**SYNTHESIS AND XRD CHARACTERISATION OF ZINC  
OXIDE NANOCRYSTALS**

*A project report submitted to the Mahatma Gandhi University In partial  
fulfillment of the requirements for the degree of*

**BACHELOR OF SCIENCE IN PHYSICS**

BY

**DEVIKA SAGAR**

**(Reg No:190021038921)**

**DEPARTMENT OF PHYSICS**

ST. DOMINIC'S COLLEGE

KANJIRAPPALLY



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This is to certify that the project entitled “**SYNTHESIS AND XRD CHARACTERISATION OF ZINC OXIDE NANOCRYSTALS**” is an authentic record of work done by Miss **DEVIKA SAGAR** in partial fulfillment of the requirement for the award of degree, Bachelor of Science, of the Mahatma Gandhi University during the year 2019-2022



**PROJECT COORDINATOR**

Dr. VIMAL G

Department of Physics



**HEAD OF THE DEPARTMENT**

Prof. NELSON KURIAKOSE

Department of Physics

# **LPG GAS DETECTOR**

**PROJECT REPORT SUBMITTED TO  
MAHATMA GANDHI UNIVERSITY  
IN PARTIAL FULFILMENT OF THE  
REQUIREMENTS FOR THE AWARD OF THE**

**BACHELOR OF SCIENCE  
DEGREE IN PHYSICS**

**SUBMITTED BY**

**HANNA RAJU**  
(REG NO: 190021038922)



**DEPARTMENT OF PHYSICS**

**ST.DOMINIC'SCOLLEGE, KANJIRAPALLY**

**2019-2022**

**Under the guidance of**

**Prof. NELSON KURIAKOSE**

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**Prof. NELSON KURIAKOSE**  
Project guide

**Prof. NELSON KURIAKOSE**  
Head of the department

**External Examiner**





**NON CONTACT VOLTAGE SENSOR**

PROJECT REPORT SUBMITTED TO

**MAHATMA GANDHI UNIVERSITY**

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE  
**BACHELOR OF SCIENCE DEGREE IN PHYSICS**

SUBMITTED BY

**JOBIN THOMAS**

(REG NO. 190021038923)



DEPARTMENT OF PHYSICS

ST. DOMINIC'S COLLEGE KANJIRAPPALLY

2019-2022

Under the guidance of

**Mr. AJITH THOMAS**

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*Amb*  
4/5/22  
**Mr. AJITH THOMAS**

**Project guide**

  
**Prof. NELSON KURIAKOSE**

**Head of the Department**

**Examiner**



**IR PROXIMITY SENSOR**

**PROJECT REPORT SUBMITTED TO  
MAHATMA GANDHI UNIVERSITY**

**IN PARTIAL FULFILMENT OF THE REQUIREMENTS  
FOR THE AWARD OF THE**

**BACHELOR OF SCIENCE DEGREE  
IN PHYSICS**

**SUBMITTED BY**

**JOSE ANTONY**  
(REG NO. 190021038924)



**DEPARTMENT OF PHYSICS  
ST. DOMINIC'S COLLEGE KANJIRAPALLY  
2019-2022**

**Under the guidance of  
Mr. AJITH THOMAS**



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*3/5/22*

  
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**Head of the department**

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FOR THE AWARD OF THE DEGREE OF*

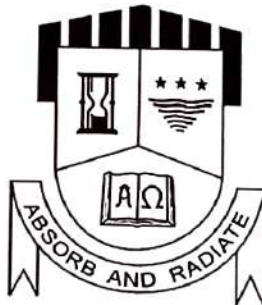
**BACHELOR OF SCIENCE**

IN

**PHYSICS**

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2019-2022

GUIDED BY

MR.AJITH THOMAS



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*Amb*  
*415/12*  
Ajith Thomas  
Project Guide

  
Prof. Nelson Kuriakose  
Head Of The Department





**LASER SECURITY ALARM**  
PROJECT REPORT SUBMITTED TO  
**MAHATMA GANDHI UNIVERSITY**  
IN PARTIAL FULFILMENT OF THE  
REQUIREMENTS FOR THE AWARD OF THE  
**BACHELOR OF SCIENCE**  
**DEGREE IN PHYSICS**

SUBMITTED BY

**LOYID JOE RAJU**  
(REG NO: 190021038926)



DEPARTMENT OF PHYSICS

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2019-2022

Under the guidance of  
**Mr. AJITH THOMAS**

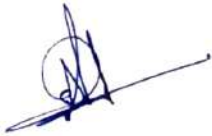
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**Mr. AJITH THOMAS**  
Project guide

  
**Prof. NELSON KURIAKOSE**  
Head of the department

  
9/5/22

**External Examiner**



# **SYNTHESIS OF CADMIUM OXALATE SINGLE CRYSTALS**

*A project report submitted to the Mahatma Gandhi University in partial  
Fulfillment of the requirements for the award of the degree of  
Bachelor of Science in Physics*

*Submitted by*  
**MARIA REGI**  
**(Reg.No.190021038927)**

*Under the Guidance of*  
**Dr. VIMAL.G**  
**DEPARTMENT OF PHYSICS**  
**ST. DOMINIC'S COLLEGE KANJIRAPALLY**



**DEPARTMENT OF PHYSICS**  
**ST DOMINIC'S COLLEGE KANJIRAPALLY**  
**MAY 2022**



# ST DOMINIC'S COLLEGE KANJIRAPALLY



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**Dr. Vimal.G**

**(Supervising Teacher)**

**Department of Physics**

**St. Dominic's College Kanjirapally**



**DEPARTMENT OF PHYSICS**

ST. DOMINIC'S COLLEGE

KANJIRAPALLY

2019-2022

**STRUCTURAL AND MORPHOLOGICAL  
CHARACTERISATION OF ZINC OXIDE NANOCRYSTALS**

*A project report submitted to the Mahatma Gandhi University In partial  
fulfillment of the requirements for the degree of*

**BACHELOR OF SCIENCE IN PHYSICS**

BY

**MEKHA JACOB**

**(Reg No:190021038928)**

**DEPARTMENT OF PHYSICS**

ST. DOMINIC'S COLLEGE

KANJIRAPPALLY

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This is to certify that the project entitled “**STRUCTURAL AND MORPHOLOGICAL CHARACTERISATION OF ZINC OXIDE NANOCRYSTALS**” is an authenticate record of work done by Miss **MEKHA JACOB** in partial fulfillment of the requirement for the award of degree, Bachelor of Science, of the Mahatma Gandhi University during the year 2019-2022.



**PROJECT COORDINATOR**

Dr. VIMAL G

Department of Physics



**HEAD OF THE DEPARTMENT**

Prof. NELSON KURIAKOSE

Department of Physics



**IR PROXIMITY SENSOR**

**PROJECT REPORT SUBMITTED TO  
MAHATMA GANDHI UNIVERSITY**

**IN PARTIAL FULFILMENT OF THE REQUIREMENTS  
FOR THE AWARD OF THE**

**BACHELOR OF SCIENCE DEGREE  
IN PHYSICS**

**SUBMITTED BY**

**NOBLE JOSEPH**  
(REG NO. 190021038929)



**DEPARTMENT OF PHYSICS  
ST. DOMINIC'S COLLEGE KANJIRAPALLY  
2019-2022**

**Under the guidance of  
Mr. AJITH THOMAS**

DEPARTMENT OF PHYSICS

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This is to certify that the project titled “**IR PROXIMITY SENSOR**” is the bona fide record of work done and presented by **NOBLE JOSEPH**, Reg. no- 190021038929 in partial fulfilment of the requirement of award of the degree of bachelor of physics under the Mahatma Gandhi University during the year 2022.

**Mr. AJITH THOMAS**

**Project guide**

*Ajith*  
*3/5/22*

  
**Prof. NELSON KURIAKOSE**

**Head of the department**



**Examiner**

**MODELING AND ANALYSIS OF SIMPLE AND  
DOUBLE PENDULUM USING C++ PROGRAMMING**

**BSc. PHYSICS  
RECORD OF PROJECT WORK**



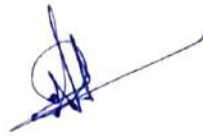
Submitted by,  
**RUKSANA SIHAJ (190021038930)**  
Guided by,  
**Prof. NELSON KURIAKOSE**  
**ST. DOMINIC'S COLLEGE KANJIRAPPALLY**  
**BATCH 2019 – 2022**



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Signature of the guide :



Name of the guide : Prof. NELSON KURIAKOSE

Signature of the HOD :



Name of the HOD : Prof. NELSON KURIAKOSE

Department seal :



External In charge :

**NON CONTACT VOLTAGE SENSOR**

**PROJECT REPORT SUBMITTED TO**

**MAHATMA GANDHI UNIVERSITY**

**IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE**

**BACHELOR OF SCIENCE DEGREE IN PHYSICS**

**SUBMITTED BY**

**SABIN MATHEW**

**(REG NO. 190021038931)**



**DEPARTMENT OF PHYSICS**

**ST. DOMINIC'S COLLEGE KANJIRAPPALLY**

**2019-2022**

**Under the guidance of**

**Mr. AJITH THOMAS**

DEPARTMENT OF PHYSICS  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY



**CERTIFICATE**

This is to certify that the project titled " **NON CONTACT VOLTAGE SENSOR** " is the bona fide record of work done and presented by **SABIN MATHEW**, Reg. no : 190021038931 in partial fulfillment of the requirement of award of the degree of bachelor of physics under the Mahatma Gandhi University during the year 2022.

*Ajith*  
9/5/22

**Mr. AJITH THOMAS**

**Project guide**

**Prof. NELSONKURIAKOSE**

**Head of the Department**

**Examiner**





# CHARACTERIZATION OF CERIUM OXALATE SINGLE CRYSTALS

*A project report submitted to the Mahatma Gandhi University in partial  
Fulfillment of the requirements for the award of the degree of  
Bachelor of Science in Physics*

*Submitted by*  
**SAINA NASSAR**  
**(Reg.No.190021038932)**

*Under the Guidance of*  
**Dr. VIMAL G**  
**DEPARTMENT OF PHYSICS**  
**ST. DOMINIC'S COLLEGE KANJIRAPPALY**



**DEPARTMENT OF PHYSICS**  
**ST DOMINIC'S COLLEGE**  
**KANJIRAPPALY**  
**MAY 2022**

**ST DOMINIC'S COLLEGE KANJIRAPPALY**



## CERTIFICATE

This is to certify that this project work entitled "CHARACTERIZATION OF CERIUM OXALATE SINGLE CRYSTALS" is an authentic record submitted by SAINA NASSAR, Reg. No.190021038932, in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science in Mahatma Gandhi University under my guidance during the period 2019-2022.

**Prof. Nelson Kuriakose**  
HOD Department of Physics  
St Dominic's College Kanjirappally

Kanjirappally

Examiner 1:

Examiner 2:

**Dr. Vimal G**  
(Supervising teacher  
Department of Physics  
St Dominic's College

# CHARACTERIZATION OF CADMIUM OXALATE SINGLE CRYSTALS

*A project report submitted to the Mahatma Gandhi University in partial  
Fulfillment of the requirements for the award of the degree of  
Bachelor of Science in Physics*

*Submitted by*

**ABHIRAMI R CHANDRAN**  
**(Reg.No.190021038935)**

*Under the Guidance of*

**Dr. VIMAL G**  
**DEPARTMENT OF PHYSICS**  
**ST. DOMINIC'S COLLEGE KANJIRAPPALY**



**DEPARTMENT OF PHYSICS**  
**ST DOMINIC'S COLLEGE**  
**KANJIRAPPALY**  
**MAY 2022**



# ST DOMINIC'S COLLEGE KANJIRAPPALY



## CERTIFICATE

This is to certify that this project work entitled "**CHARACTERIZATION OF CADMIUM OXALATE SINGLE CRYSTALS**" is an authentic record of work carried by **ABHIRAMI R CHANDRAN**, Reg. No. **I90021038935**, in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science in Mahatma Gandhi University under my guidance during the period 2019-2022.

  
**Dr Vimal G**

(Supervising teacher)

Department of Physics

St Dominic's College Kanjirappally

# CHARACTERIZATION OF CERIUM OXALATE SINGLE CRYSTALS

*A project report submitted to the Mahatma Gandhi University in partial  
Fulfillment of the requirements for the award of the degree of  
Bachelor of Science in Physics*

*Submitted by*

**ATHULYA SEBASTIAN  
(Reg.No.190021038936)**

*Under the Guidance of*

**Dr. VIMAL G**

**DEPARTMENT OF PHYSICS  
ST. DOMINIC'S COLLEGE KANJIRAPPALY**



**DEPARTMENT OF PHYSICS  
ST DOMINIC'S COLLEGE  
KANJIRAPPALY  
MAY 2022**

**ST DOMINIC'S COLLEGE KANJIRAPPALY**



## CERTIFICATE

This is to certify that this project work entitled "CHARACTERIZATION OF CERIUM OXALATE SINGLE CRYSTALS" is an authentic record submitted by ATHULYA SEBASTIAN , Reg. No. I90021038936, in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science in Mahatma Gandhi University under my guidance during the period 2019-2022.

**Prof. Nelson Kuriakose**  
HOD Department of Physics  
St Dominic's College Kanjirappally

**Dr. Vimal G**  
(Supervising teacher  
Department of Physics  
St Dominic's College

Kanjirappally

Examiner 1:

Examiner 2:



# CHARACTERIZATION OF CADMIUM OXALATE SINGLE CRYSTALS

*A project report submitted to the Mahatma Gandhi University in partial  
Fulfillment of the requirements for the award of the degree of  
Bachelor of Science in Physics*

*Submitted by*  
**DIVYA SURESH**  
**(Reg.No.190021038937)**

*Under the Guidance of*  
**Dr. VIMAL G**  
**DEPARTMENT OF PHYSICS**  
**ST. DOMINIC'S COLLEGE KANJIRAPPALY**



**DEPARTMENT OF PHYSICS**  
**ST DOMINIC'S COLLEGE**  
**KANJIRAPPALY**  
**MAY 2022**

# ST DOMINIC'S COLLEGE KANJIRAPPALY



## CERTIFICATE

This is to certify that this project work entitled "**CHARACTERIZATION OF CADMIUM OXALATE SINGLE CRYSTALS**" is an authentic record of work carried by **DIVYA SURESH**, Reg. No.190021038937, in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science in Mahatma Gandhi University under my guidance during the period 2019-2022.

  
Dr Vimal G

(Supervising teacher)

Department of Physics

St Dominic's College Kanjirappally

**MODELING AND ANALYSIS OF SIMPLE AND**  
**DOUBLE PENDULUM USING C++ PROGRAMMING**

**BSc. PHYSICS**  
**RECORD OF PROJECT WORK**



Submitted by,  
**FATHIMA SALIM (190021038938)**  
Guided by,  
**Prof. NELSON KURIAKOSE**  
**ST. DOMINIC'S COLLEGE KANJIRAPPALLY**  
**BATCH 2019 – 2022**



## CERTIFICATE

This is to certify that the dissertation entitled, "MODELING AND ANALYSIS OF SIMPLE AND DOUBLE PENDULUM USING C++ PROGRAMMING" is an authentic work carried out by **Fathima Salim (190021038938)**, as prescribed by Mahatma Gandhi University for the award of science in Physics, Department of Physics, St. Dominic's College Kanjirappally during the academic year 2019-2022.

Signature of the guide :



Name of the guide : Prof. NELSON KURIAKOSE

Signature of the HOD :



Name of the HOD : Prof. NELSON KURIAKOSE

Department seal :



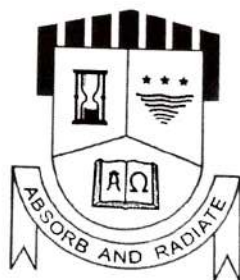
External In charge :

# SYNTHESIS OF CADMIUM OXALATE SINGLE CRYSTALS

*A project report submitted to the Mahatma Gandhi University in partial  
Fulfillment of the requirements for the award of the degree of  
Bachelor of Science in Physics*

*Submitted by*  
**HARITHA SABU**  
(Reg.No.190021038939)

*Under the Guidance of*  
**Dr. VIMAL.G**  
**DEPARTMENT OF PHYSICS**  
**ST. DOMINIC'S COLLEGE KANJIRAPALLY**



**DEPARTMENT OF PHYSICS**  
**ST DOMINIC'S COLLEGE KANJIRAPALLY**  
**MAY 2022**

# ST DOMINIC'S COLLEGE KANJIRAPALLY



## CERTIFICATE

This is to certify that this project work entitled “**SYNTHESIS OF CADMIUM OXALATE SINGLE CRYSTALS**” is an authentic record of work carried by **HARITHA SABU**, Reg. No. **190021038939**, in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science in Mahatma Gandhi University under my guidance during the period 2019-2022.

**Dr. Vimal.G**

**(Supervising Teacher)**

**Department of Physics**

**St. Dominic's College Kanjirappally**



**AUTOMATIC HEADLIGHT DIMMER**

PROJECT REPORT SUBMITTED TO

**MAHATMA GANDHI UNIVERSITY**

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE  
**BACHELOR OF SCIENCE DEGREE IN PHYSICS**

SUBMITTED BY

**JISHAL JOSEPH**

(REG NO. 190021038940)



DEPARTMENT OF PHYSICS

ST. DOMINIC'S COLLEGE KANJIRAPPALLY

2019-2022

Under the guidance of

**Mr. AJITH THOMAS**

**DEPARTMENT OF PHYSICS**  
**ST. DOMINIC'S COLLEGE KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that the project titled " **AUTOMATIC HEADLIGHT DIMMER** " is the bona fide record of work done and presented by **JISHAL JOSEPH**, Reg. no : 190021038940 in partial fulfillment of the requirement of award of the degree of bachelor of physics under the Mahatma Gandhi University during the year 2022.

**Mr. AJITH THOMAS**

**Project guide**

*Ajith*  
4/5/22

**Prof. NELSON KURIAKOSE**

**Head of the Department**

*[Signature]*  
**Examiner**



**DEPARTMENT OF PHYSICS**

ST. DOMINIC'S COLLEGE

KANJIRAPALLY

2019-2022

**STRUCTURAL AND MORPHOLOGICAL  
CHARACTERISATION OF ZINC OXIDE NANOCRYSTALS**

*A project report submitted to the Mahatma Gandhi University In partial  
fulfillment of the requirements for the degree of*

**BACHELOR OF SCIENCE IN PHYSICS**

**BY**

**LAKSHMI UTHAMAN**

**(Reg No:190021038941)**

**DEPARTMENT OF PHYSICS**

ST. DOMINIC'S COLLEGE

KANJIRAPPALLY





## CERTIFICATE

This is to certify that this dissertation entitled **STRUCTURAL AND MORPHOLOGICAL CHARACTERISATION OF ZINC OXIDE NANOCRYSTALS** is an authentic record of work carried under my guidance and supervision during 2021 in partial fulfillment of the requirements for the degree of Bachelor of Science in Physics of Mahatma Gandhi University, in the department of physics, St. Dominic's College, Kanjirappally, during the academic year 2019-2022

  
Place: Kanjirappally  
VIMAL G

Date:

# RESONANT INDUCTIVE COUPLING: A METHOD FOR LONG DISTANCE WIRELESS POWER TRANSFER

PROJECT REPORT SUBMITTED TO

*MAHATMA GANDHI UNIVERSITY*

IN PARTIAL FULFILMENT OF THE REQUIREMENTS

FOR THE AWARD OF THE

**BACHELOR OF SCIENCE DEGREE**

IN PHYSICS

SUBMITTED BY

SANDRA SANTHOSH

(Reg. No. 190021038943)



DEPARTMENT OF PHYSICS

ST. DOMINIC'S COLLEGE KANJIRAPALLY

2019-2022

Under the guidance of

Prof. AJITH THOMAS



DEPARTMENT OF PHYSICS

ST. DOMINIC'S COLLEGE KANJIRAPALLY

## CERTIFICATE

This is to certify that, the project entitled "**RESONANT INDUCTIVE COUPLING: A METHOD FOR LONG DISTANCE WIRELESS POWER TRANSFER**" is an authentic record of the project carried out by **SANDRA SANTHOSH, (Reg. No. 190021038943)** on partial fulfilment of the requirement for the award of the B.Sc. Degree in Physics of Mahatma Gandhi University, in the Department of Physics, St. Dominic's College Kanjirapally, during the year 2019-2022.

Ajith  
4/5/22

Prof. Ajith Thomas

Project Guide



Prof. Nelson Kuriakose

Head of The Department



# ISOLATION OF PROTOPORPHYRIN IX FROM BROWN EGGSHELLS & IDENTIFICATION USING UV- VIS SPECTROPHOTOMETER

Project report submitted to Mahatma Gandhi University in  
Partial fulfillment of the requirement for the award of Degree  
of Bachelor of Science in Chemistry

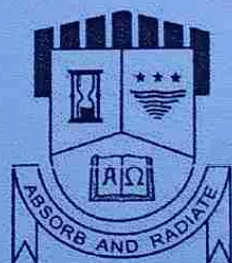
Submitted By

SIBIN M

Reg. No. 190021026790

B. Sc. Chemistry

2019-2022



Valued  
Dr. Renjini Joseph  
Joseph Abraham Joseph

DEPARTMENT OF CHEMISTRY

ST. DOMINIC'S COLLEGE, KANJIRAPALLY

KOTTAYAM



**ST. DOMINIC'S COLLEGE  
KANJIRAPALLY**

**CERTIFICATE**

This is to certify that the project entitled **"ISOLATION OF PROTOPORPHYRIN IX FROM BROWN EGG SHELLS & IDENTIFICATION USING UV-VIS SPECTROPHOTOMETER"** submitted by **SIBIN M** in partial fulfillment for the award of the degree in chemistry of Mahatma Gandhi University is a bonafide record of the work carried out by her at St. Dominic's College Kanjirapally under my supervision and guidance.

**Minu Mary Sebastian**  
Teacher - in - charge

**Dr. Renjini Joseph**  
HOD , Department of Chemistry





**ISOLATION OF PROTOPORPHYRIN IX FROM BROWN  
EGGSHELLS & IDENTIFICATION USING UV- VIS  
SPECTROPHOTOMETER**

Project report submitted to Mahatma Gandhi University in  
Partial fulfillment of the requirement for the award of Degree of  
Bachelor of Science in Chemistry

**Submitted By**

**MARIA JACOB**

**Reg. No. 190021026787**

**B. Sc. Chemistry**

**2019-2022**

*Valued*

*Dr. Renjithi Joseph*

*Jyalsana P Jyalsana Abraham*



**DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE,  
KANJIRAPALLY KOTTAYAM**





**ST. DOMINIC'S COLLEGE  
KANJIRAPALLY**

**CERTIFICATE**

This is to certify that the project entitled "ISOLATION OF PROTOPORPHYRIN IX FROM BROWN EGG SHELLS & IDENTIFICATION USING UV-VIS SPECTROPHOTOMETER" submitted by MARIA JACOB in partial fulfillment for the award of the degree in chemistry of Mahatma Gandhi University is a bonafide record of the work carried out by her at St. Dominic's College Kanjirapally under my supervision and guidance.

**Minu Mary Sebastian**  
Teacher – in – charge

**Dr. Renjini Joseph**  
HOD  
Department of Chemistry

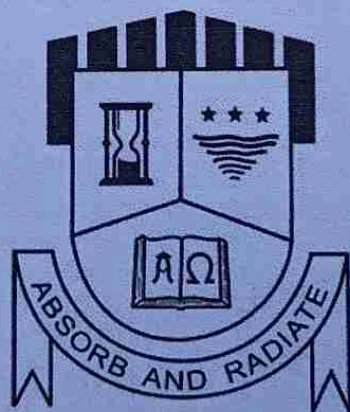


**VERIFICATION OF BEER-LAMBERT'S LAW USING  
POTASSIUM PERMANGANATE AND COPPER  
SULPHATE SOLUTION.**

*PROJECT REPORT SUBMITTED TO MAHATMA GANDHI  
UNIVERSITY IN PARTIAL FULFILLMENT OF THE  
REQUIREMENTS FOR THE AWARD OF DEGREE OF BACHELOR  
OF SCIENCE IN CHEMISTRY*

Submitted by  
**ANN MARIA ROY**  
Register no: 190021026795  
BSc Chemistry  
2019-2022

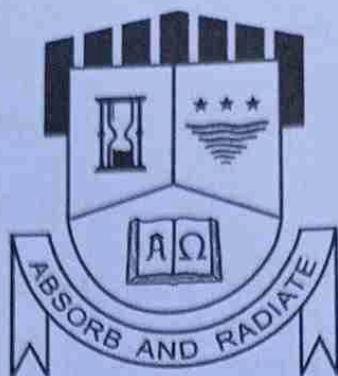
*Valued  
Dr. Renjini Joseph*  
*Jyalsma Abraham Jyalsma*



**DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE KANJIRAPALLY  
KOTTAYAM**



# ST. DOMINIC'S COLLEGE KANJIRAPALLY



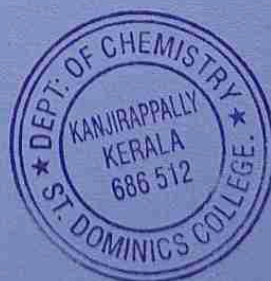
## CERTIFICATE

This is to certify that project report entitled "**VERIFICATION OF BEER LAMBERT'S LAW USING POTASSIUM PERMANGANATE AND COPPER SULPHATE SOLUTION**" is an authentic record of the work carried out by ANN MARIA ROY with Register Number: **190021026795**, in partial fulfilment of the requirement for the award of degree of Bachelor of Science in Chemistry of Mahatma Gandhi University Kottayam.

**Ms. Mary Pitunia C Mathew**

**(Teacher in charge)**

**Dr. Renjini Joseph**  
**Head of the Department**  
**Department of Chemistry**





# EXTRACTION AND ESTIMATION OF CHLOROPHYLL FROM MEDICINAL PLANTS

*Project report submitted to*

*Mahatma Gandhi University*

*in partial fulfilment of the requirements for the award of the degree*



**BACHELOR OF SCIENCE IN CHEMISTRY**

*Submitted by*

**DEVIKA RAMESH**

Reg.No: 190021026783



Valued  
Dr. Renjini Josepl   
Jyalana Abraham 

**DEPARTMENT OF CHEMISTRY**

**ST. DOMINIC'S COLLEGE**

**KANJIRAPPALLY**

**KERALA**

**MAY - 2022**

DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY  
*Affiliated to Mahatma Gandhi University, Kottayam*



**CERTIFICATE**

This is to certify that this project titled "EXTRACTION AND ESTIMATION OF CHLOROPHYLL FROM MEDICINAL PLANTS" is a bonafide work done by DEVIKA RAMESH, Reg. No: 190021026783 in this department under the guidance of Prof. Jyolsna Abraham for the partial fulfilment of the requirements for the award of degree in Bachelor of Science in chemistry of Mahatma Gandhi University, Kottayam.



Dr RENJINI JOSEPH

Head of the department of chemistry



PROF. JYOLSNA ABRAHAM

Project Guide





**VERIFICATION OF BEER-LAMBERT'S LAW USING  
POTASSIUM PERMANGANATE AND COPPER  
SULPHATE SOLUTION.**

*PROJECT REPORT SUBMITTED TO MAHATMA GANDHI  
UNIVERSITY IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN  
CHEMISTRY*

Submitted by

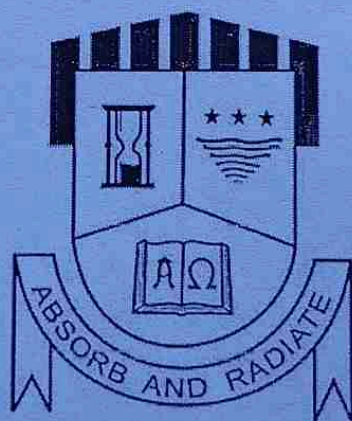
MINNU SANTHOSH

Register no: 190021026804

BSc Chemistry

2019-2022

Valued  
Dr. Resjisi Joseph  
Jyalsma Abraham Jyalsma



**DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE KANJIRAPALLY  
KOTTAYAM**



ST. DOMINIC'S COLLEGE KANJIRAPALLY



CERTIFICATE

This is to certify that project report entitled "*VERIFICATION OF BEER LAMBERT'S LAW USING POTASSIUM PERMANGANATE AND COPPER SULPHATE SOLUTION*" is an authentic record of the work carried out by MINNU SANTHOSH with Register Number: 190021026804 , in partial fulfilment of the requirement for the award of degree of Bachelor of Science in Chemistry of Mahatma Gandhi University Kottayam.

Dr. Renjini Joseph  
Head of the Department  
Department of Chemistry

Ms. Mary Pitunia C Mathew  
(Teacher in charge)



# AUTOCATALYTIC REACTION BETWEEN POTASSIUM PERMANGANATE AND OXALIC ACID

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI  
UNIVERSITY IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN  
CHEMISTRY

Submitted by  
AKSHAY P M

Register no: 190021026777

BSc Chemistry  
2019-2022

Valued  
Dr. Renjith Joseph  
Jyothna Abraham Jyothna



DEPARTMENT OF CHEMISTRY  
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KOTTAYAM




ST. DOMINIC'S COLLEGE KANJIRAPALLY



CERTIFICATE

This is to certify that project report entitled "AUTOCATALYTIC REACTION BETWEEN POTASSIUM PERMANGANATE AND OXALIC ACID" is an authentic record of the work carried out by AKSHAY P M with Register Number: 190021026777, in partial fulfilment of the requirement for the award of degree of Bachelor of Science in Chemistry of Mahatma Gandhi University , Kottayam.

  
Dr. Renjini Joseph  
Head of the Department  
Department of Chemistry

  
Ms. Mary Pitunia C Mathew  
(Teacher in charge)



# DETERMINATION OF PERCENTAGE PURITY OF VARIOUS PARACETAMOL SAMPLES

A project report submitted to the Mahatma Gandhi University, Kottayam,  
in partial fulfillment of the requirements for the award of Degree of  
Bachelor of Science in Chemistry.

Submitted by

ANU MOHANAN

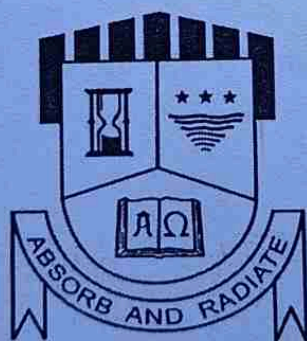
Reg No:190021026780

Year : 2021-2022

*Valued*

*Dr. Renjini Joseph*

*Jyotsna Abraham*



DEPARTMENT OF CHEMISTRY

ST.DOMINIC'S COLLEGE KANJIRAPPALLY , KERALA , 2022

DEPARTMENT OF CHEMISTRY

ST. DOMINIC'S COLLEGE KANJIRAPPALLY, KERALA



CERTIFICATE

This is to certify that the project report entitled "**DETERMINATION OF PERCENTAGE PURITY OF VARIOUS PARACETAMOL SAMPLES**" is an authentic record of the work carried out by **ANU MOHANAN**, Reg No: **190021026780** in partial fulfillment of the requirement for the award of the degree of Bachelor of science in Chemistry of Mahatma Gandhi University, Kottayam.

  
**Dr. RENJINI JOSEPH**

(Teacher in charge,  
department of chemistry)

  
**Dr. RENJINI JOSEPH**

(Head of the department,  
department of chemistry)





# DETERMINATION OF PERCENTAGE PURITY OF VARIOUS PARACETAMOL SAMPLES

A project report submitted to the Mahatma Gandhi University, Kottayam,  
in partial fulfillment of the requirements for the award of Degree of  
Bachelor of Science in Chemistry.

Submitted by  
**GOURIPRIYA C NAIR**

Reg No:190021026801

Year : 2021-2022



**DEPARTMENT OF CHEMISTRY**

**ST.DOMINIC'S COLLEGE KANJIRAPPALLY , KERALA , 2022**

*Valued*  
*Dr. Resjisi Joseph*  
*Jyalsina Abraham*



DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY, KERALA



CERTIFICATE

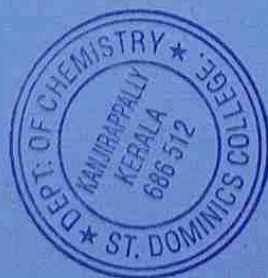
This is to certify that the project report entitled "**DETERMINATION OF PERCENTAGE PURITY OF VARIOUS PARACETAMOL SAMPLES**" is an authentic record of the work carried out by **GOURIPRIYA C NAIR**, Reg No: **190021026801** in partial fulfillment of the requirement for the award of the degree of Bachelor of science in Chemistry of Mahatma Gandhi University, Kottayam.

  
**Dr. RENJINI JOSEPH**

(Teacher in charge,  
department of chemistry)

  
**Dr. RENJINI JOSEPH**

(Head of the department,  
department of chemistry)



# EXTRACTION AND ESTIMATION OF CHLOROPHYLL FROM MEDICINAL PLANTS

*Project report submitted to*

*Mahatma Gandhi University*

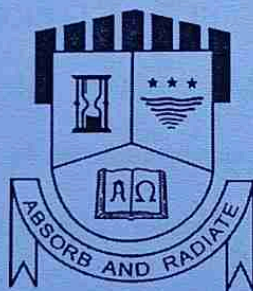
*in partial fulfilment of the requirements for the award of the degree*

**BACHELOR OF SCIENCE IN CHEMISTRY**

*Submitted by*

**ANOOP VS**

Reg.No: 190021026779



*Valued*

*Dr. Renjith Josep*

*Jyothsna Abraham Jyothsna*

**DEPARTMENT OF CHEMISTRY**

**ST. DOMINIC'S COLLEGE**

**KANJIRAPPALLY**

**KERALA**

**APRIL - 2022**



DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY  
*Affiliated to Mahatma Gandhi University, Kottayam*



**CERTIFICATE**

This is to certify that this project titled “ **EXTRACTION AND ESTIMATION OF CHLOROPHYLL FROM MEDICINAL PLANTS** ” is a bonafide work done by **ANOOP VS, Reg. No: 190021026779** in this department under the guidance of **Prof. Jyolsna Abraham** for the partial fulfilment of the requirements for the award of degree in Bachelor of Science in chemistry of Mahatma Gandhi University, Kottayam.

  
Dr RENJINI JOSEPH

Head of the department of chemistry

  
PROF. JYOLSNA ABRAHAM

Project Guide





# DETERMINATION OF PERCENTAGE OF CAFFEINE IN VARIOUS TEA SAMPLES

Project report submitted to Mahatma Gandhi University in Partial fulfillment of  
the requirement for the award of Degree of Bachelor of Science in Chemistry

Submitted By

Geethamol. P.H

Reg. No. 190021026784

B. Sc. Chemistry 2019-2022

Valued  
Dr. Renjini Josep #11  
Jyalama Abrahams (Jyalama)



DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE, KANJIRAPPALLY  
KOTTAYAM



**ST. DOMINIC'S COLLEGE**

**KANJIRAPPALLY**

**CERTIFICATE**

This is to certify that the project entitled **"Determination of Percentage of Caffeine in various Tea Sample"** submitted by **Geethumol P.H** in Partial fulfillment for the award of the degree in chemistry of Mahatma Gandhi University is a Bonafede record of the work carried out by her at St. Dominic's College Kanjirappally under my supervision and guidance.

Foz

**Prof. Francis Thomas**  
**Teacher-in-Charge**



**Dr. Renjini Joseph**  
**Head, Department of chemistry**



# DETERMINATION OF DRY RUBBER CONTENT

*Project Report Submitted to*  
**THE MAHATMA GANDHI UNIVERSITY**  
*In Partial Fulfillment of The Requirements For The Award of The Degree of*  
**BACHELOR OF SCIENCE IN CHEMISTRY**

*Submitted by:*  
**ASIYA SHAJAHAN**  
(Reg. No. 190021026781)

*Under the guidance of*  
**Dr RANI ALPHONSA JOSE**  
(Assistant Professor of Department of Chemistry)



Valued  
Dr. Renjini Jose  
Jyalsma Abraham Jyalsma

Department of Chemistry  
St. Dominic's College, Kanjirappally  
Parathodu P O, Kerala, India  
Batch 2019 - 2022



# ST. DOMINIC'S COLLEGE KANJIRAPPALLY

(Accredited by the NAAC with A Level)

Parathode P.O, Kanjirappally Kerala 686512



## CERTIFICATE

This is to certify that this work entitled "*Determination of Dry Rubber Content*" was done by **ASIYA SHAJAHAN** Reg. No. **190021026781** in St. Dominic's College Kanjirappally in partial fulfillment of the requirements for the Degree of Bachelor of Science in Chemistry during the year 2019-2022

Dr Renjini Joseph.  
Head of the Department  
St. Dominic's College  
Kanjirappally

Dr Rani Alphonsa Jose  
Project Guide  
Assistant Professor  
St. Dominic's College  
Kanjirappally



# DETERMINATION OF PERCENTAGE OF CAFFEINE IN TEA SAMPLES

Project report submitted to Mahatma Gandhi University in Partial fulfillment  
of the requirement for the award of Degree Of Bachelor of Science in  
Chemistry

Submitted By



ARUNIMA JACOB

Reg.No. 190021026798

B.Sc. Chemistry 2019-2022

DEPARTMENT OF CHEMISTRY

ST. DOMINIC'S COLLEGE, KANJIRAPPALLY  
KOTTAYAM

Valued

Dr. Renjini Joseph

Jyalsna Abraham Jyalsna





ST. DOMINIC'S COLLEGE  
KANJIRAPPALLY

CERTIFICATE

This is to certify that the project entitled "**DETERMINATION OF PERCENTAGE OF CAFFEINE IN TEA SAMPLE**" submitted by **Arunima Jacob** in Partial fulfillment for the award of the degree in chemistry of Mahatma Gandhi University is a Bonafede record of the work carried out by her at St. Dominic's College Kanjirappally under my supervision and guidance.

**Prof. Francis Thomas**  
Teacher-in-Charge

**Dr. Renjini Joseph**  
HOD, Department of chemistry



**VERIFICATION OF THE ADSORPTION ISOTHERMS USING  
ADSORPTION OF OXALIC ACID ON ACTIVATED CHARCOAL**

*PROJECT REPORT SUBMITTED TO MAHATMA GANDHI UNIVERSITY IN  
PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF  
DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY*

Submitted by  
SRUTHY THAMPI  
Register no: 190021026792  
BSc Chemistry  
2019-2022

*Valued*

*Dr. Renjini Joseph*



*Jyabnu Abraham*


**DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE KANJIRAPALLY  
KOTTAYAM**

ST. DOMINIC'S COLLEGE KANJIRAPALLY



CERTIFICATE

This is to certify that project report entitled "**VERIFICATION OF THE ADSORPTION ISOTHERMS USING ADSORPTION OF OXALIC ACID ON ACTIVATED CHARCOAL**" is an authentic record of the work carried out by SRUTHY THAMPI with Register Number: **190021026792**, in partial fulfilment of the requirement for the award of degree of Bachelor of Science in Chemistry of Mahatma Gandhi University Kottayam.

  
Dr. Renjini Joseph  
Head of the Department  
Department of Chemistry

  
Ms. Mary Pitunia C Mathew  
(Teacher in charge)






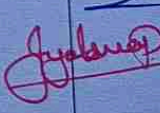
# DETERMINATION OF DRY RUBBER CONTENT

*Project Report Submitted to*  
**THE MAHATMA GANDHI UNIVERSITY**  
*In Partial Fulfillment of The Requirements For The Award of The Degree of*  
**BACHELOR OF SCIENCE IN CHEMISTRY**

*Submitted by:*  
**ANNMARIYA TOM**  
(Reg. No. 190021026796)

*Under the guidance of*  
**Dr RANI ALPHONSA JOSE**  
(Assistant Professor of Department of Chemistry)



*Valued*  
*Dr. Renjini Joseph*   
*Jyothsna Abraham* 

**Department of Chemistry**  
**St. Dominic's College, Kanjirappally**  
**Parathodu P O, Kerala, India**  
**Batch 2019 - 2022**



# ST. DOMINIC'S COLLEGE KANJIRAPPALLY


(Accredited by the NAAC with A Level)

Parathode P.O, Kanjirapally Kerala 686512




## CERTIFICATE

This is to certify that this work entitled "*Determination of Dry Rubber Content*" was done by ANNAMARIYA TOM Reg. No. 190021026796 in St. Dominic's College Kanjirapally in partial fulfillment of the requirements for the Degree of Bachelor of Science in Chemistry during the year 2019-2022

  
Dr Renjini Joseph.  
Head of the Department  
St. Dominic's College  
Kanjirapally



  
Dr Rani Alphonsa Jose  
Project Guide  
Assistant Professor  
St. Dominic's College  
Kanjirapally

# DETERMINATION OF DRY RUBBER CONTENT

*Project Report Submitted to*  
**THE MAHATMA GANDHI UNIVERSITY**  
*In Partial Fulfillment of The Requirements For The Award of The Degree of*  
**BACHELOR OF SCIENCE IN CHEMISTRY**

*Submitted by:*  
**MEENAKSHI B T**  
(Reg. No. 190021026803)

*Under the guidance of*  
**Dr RANI ALPHONSA JOSE**  
(Assistant Professor of Department of Chemistry)

Valued  
Dr. Renjini Joseph  
Juliana Abraham (Juliana)



**Department of Chemistry**  
**St. Dominic's College,**  
**Kanjirappally ,**  
**Batch 2019 - 2022**



# ST. DOMINIC'S COLLEGE KANJIRAPPALLY


(Accredited by the NAAC with A Level)

Parathode P.O, Kanjirappally Kerala 686512



## CERTIFICATE

This is to certify that this work entitled "*Determination of Dry Rubber Content*" was done by **MEENAKSHI B T** Reg. No. **190021026803** in St. Dominic's College Kanjirappally in partial fulfillment of the requirements for the Degree of Bachelor of Science in Chemistry during the year 2019-2022

  
Dr. Renjini Joseph.  
Head of the Department  
St. Dominic's College  
Kanjirappally

  
Jov

Dr. Rani Alphonsa Jose  
Project Guide  
Assistant Professor  
St. Dominic's College  
Kanjirappally





# DETERMINATION OF DRY RUBBER CONTENT

*Project Report Submitted to*  
**THE MAHATMA GANDHI UNIVERSITY**  
*In Partial Fulfillment of The Requirements For The Award of The Degree of*  
**BACHELOR OF SCIENCE IN CHEMISTRY**

*Submitted by:*  
**JERIN VARGHESE**  
(Reg. No. 190021026802)

*Under the guidance of*  
**Dr RANI ALPHONSA JOSE**  
(Assistant Professor of Department of Chemistry)



Valued  
Dr. Renjini Josep  
Jyabona Abraham Jyabona

**Department of Chemistry**  
**St. Dominic's College,**  
**Kanjirappally ,**  
**Batch 2019 - 2022**



# ST. DOMINIC'S COLLEGE KANJIRAPPALLY


(Accredited by the NAAC with A Level)


Parathode P.O, Kanjirappally Kerala 686512



## CERTIFICATE

This is to certify that this work entitled "*Determination of Dry Rubber Content*" was done by **JERIN VARGHESE**. Reg. No. 190021026802 in St. Dominic's College Kanjirappally in partial fulfillment of the requirements for the Degree of Bachelor of Science in Chemistry during the year 2019-2022

  
Dr. Renjini Joseph.  
Head of the Department  
St. Dominic's College  
Kanjirappally

  
Dr. Rani Alphonsa Jose  
Project Guide  
Assistant Professor  
St. Dominic's College  
Kanjirappally



# DETERMINATION OF CONTENTS OF DIFFERENT BRANDS OF SOFT DRINKS

Project report submitted to Mahatma Gandhi University in Partial fulfilment of the  
requirement for the award of Degree of Bachelor of Science in Chemistry

Submitted By

**ROSEMARY BABU**

Register No. 190021026806

B.Sc. Chemistry

2019-2022



DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE, KANJIRAPPALLY  
KOTTAYAM

*Valued*  
*Dr. Renjini Jose*  
*Jyalsne Abrahams Jyalsne*





**ST. DOMINIC'S COLLEGE  
KANJIRAPALLY**

**CERTIFICATE**

This is to certify that the project entitled **"DETERMINATION OF CONTENTS IN DIFFERENT BRANDS OF SOFT DRINKS"** submitted by **Rosemary Babu** in Partial fulfillment for the award of the degree in chemistry of Mahatma Gandhi University is a Bonafede record of the work carried out by her at St. Dominic's College Kanjirappally under my supervision and guidance.

**Prof. Francis Thomas**

**Teacher-in-Charge**

**Dr. Renjini Joseph**

**Head, Department of chemistry**



**EXTRACTION AND ESTIMATION OF CHLOROPHYLL  
FROM MEDICINAL PLANTS**

*Project report submitted to*

*Mahatma Gandhi University*

*in partial fulfilment of the requirements for the award of the degree*

**BACHELOR OF SCIENCE IN CHEMISTRY**

*Submitted by*

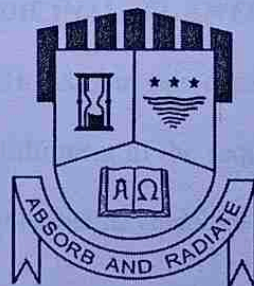
**NEETHU BIJU**

Reg.No:190021026805

*Valued*

*Dr. Renjini Joseph*

*Jyalsma Abraham*



**DEPARTMENT OF CHEMISTRY**

**ST. DOMINIC'S COLLEGE**

**KANJIRAPPALLY**

**KERALA**

**MAY- 2022**



DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY  
*Affiliated to Mahatma Gandhi University, Kottayam*



**CERTIFICATE**

This is to certify that this project titled “**EXTRACTION AND ESTIMATION OF CHLOROPHYLL FROM MEDICINAL PLANTS** ” is a bonafide work done by **NEETHU BIJU** Reg. No: 190021026805 in this department under the guidance of **Prof. Jyolsna Abraham** for the partial fulfilment of the requirements for the award of degree in Bachelor of Science in chemistry of Mahatma Gandhi University, Kottayam.



Dr RENJINI JOSEPH

Head of the department of chemistry



PROF. JYOLSNA ABRAHAM

Project Guide





# DETERMINATION OF CONTENTS OF DIFFERENT BRANDS OF SOFT DRINKS

Project report submitted to Mahatma Gandhi University in Partial fulfilment of the requirement for the award of Degree of Bachelor of Science in Chemistry

Submitted By

**JISBIN JESSO**

Register No. 190021026786

B.Sc. Chemistry

2019-2022



DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE, KANJIRAPPALLY  
KOTTAYAM

*Valued*

*Dr. Renjini Joseph*

*Jyalsna Abraham Jyalsna*



**ST. DOMINIC'S COLLEGE  
KANJIRAPALLY**

**CERTIFICATE**

This is to certify that the project entitled **“DETERMINATION OF CONTENTS IN DIFFERENT BRANDS OF SOFT DRINKS”** submitted by **Jisbin Jesso** in Partial fulfillment for the award of the degree in chemistry of Mahatma Gandhi University is a Bonafede record of the work carried out by her at St. Dominic's College Kanjirappally under my supervision and guidance.

**Prof. Francis Thomas**

**Teacher-in-Charge**

**Dr. Renjini Joseph**

**Head, Department of chemistry**





# DETERMINATION OF OXALATE IONS IN GUAVA FRUIT AT DIFFERENT STAGES OF RIPENING

*A Project Report submitted for the Partial fulfillment of the requirement for the degree of*

**Bachelor of Science**

*In*

**CHEMISTRY**

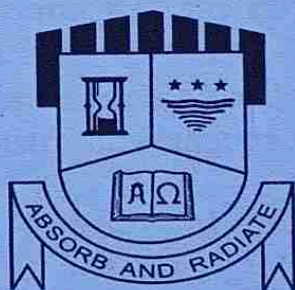
*By*

**IRFANA K.H**

**Register NO: 190021026785**

*Under the guidance of*

**Prof. Nidhin Joy**



*Valued*  
*Dr. Renjith Jose*  
*Jyothsna Abraham*

**POST GRADUATE DEPARTMENT OF CHEMISTRY**

**ST.DOMINICS COLLEGE KANJIRAPPALLY, KOTTAYAM**

*(Re-accredited with A-Grade by the National Assessment and Accreditation Council)*

**Kanjirappally, Kerala, India**

**May 2022**



**KOTTAYAM**



**ST. DOMINIC'S COLLEGE  
KANJIRAPPALLY**

**CERTIFICATE**

This is to certify that **Ms. Irfana K.H** has carried out the project entitled "**Determination of Oxalate ions in Guava fruit at Different Stages of Ripening**" under my supervision for the partial fulfillment of the degree of Bachelor of Science in Chemistry of, Mahatma Gandhi University, Kottayam, Kerala.

**Dr. Renjini Joseph**  
Head of the Department  
Department of Chemistry



**Prof. Nidhin Joy**  
Project Guide  
Assistant professor,  
Department of Chemistry

# STUDY OF OXALATE ION CONTENT IN TOMATO

*A project report submitted for the partial fulfillment  
of the requirement for the degree of*

**Bachelor of science**

*In*

**CHEMISTRY**

*By*

**RAHUL RAJU**

**Reg No: 190021026789**

*Under the guidance of*

**Prof. Nidhin Joy**



**POST GRADUATE DEPARTMENT OF CHEMISTRY**

**ST. DOMINIC'S COLLEGE KANJIRAPPALLY, KOTTAYAM**

*( Re-accredited with A-Grade by the National Assessment and Accreditation Council )*

*Kanjirappally, Kerala, India*

**May 2022**

*Valued*  
*Dr. Renjini Joseph*  
*Joseph*  
*Abraham Joseph*



POST GRADUATE DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY, KOTTAYAM


( Re-accredited with A-Grade by the National Assessment and Accreditation Council )


Kanjirappally, Kerala, India

May 2022

## CERTIFICATE

This is to certify that **Mr. Rahul Raju** has carried out the project entitled " **Study of oxalate ion content in tomato** " under my supervision for the partial fulfillment of the degree of Bachelor of science in Chemistry of, Mahatma Gandhi University, Kottayam, Kerala.

  
Dr. Renjini Joseph  
Head of the Department  
Department of Chemistry

  
Prof. Nidhin Joy  
Project Guide  
Assistant professor  
Department of Chemistry





# VERIFICATION OF THE ADSORPTION ISOTHERMS USING ADSORPTION OF OXALIC ACID ON ACTIVATED CHARCOAL

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI  
UNIVERSITY IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN  
CHEMISTRY

Submitted by  
CHRISTEENA ANNI ANTONY  
Register no: 190021026782  
BSc Chemistry  
2019-2022



Valued  
Dr. Renjini Joseph  
*Jyalsna Abraham Jyalsna*


DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE KANJIRAPALLY  
KOTTAYAM


ST. DOMINIC'S COLLEGE KANJIRAPALLY



CERTIFICATE

This is to certify that project report entitled "*VERIFICATION OF THE ADSORPTION ISOTHERMS USING ADSORPTION OF OXALIC ACID ON ACTIVATED CHARCOAL*" is an authentic record of the work carried out by CHRISTEENA ANNI ANTONY with Register Number: **190021026782** , in partial fulfilment of the requirement for the award of degree of Bachelor of Science in Chemistry of Mahatma Gandhi University Kottayam.

  
Dr. Renjini Joseph  
Head of the Department  
Department of Chemistry

  
Ms. Mary Pitunia C Mathew  
(Teacher in charge)





**ISOLATION OF PROTOPORPHYRIN IX FROM BROWN EGGSHELLS  
& IDENTIFICATION USING UV- VIS SPECTROPHOTOMETER**

Project report submitted to Mahatma Gandhi University in  
Partial fulfillment of the requirement for the award of Degree  
of Bachelor of Science in Chemistry

Submitted By  
**ESTHER ROSE JOSEPH NELLARY**

Reg. No. 190021026800

B. Sc. Chemistry

2019-2022

Valued  
Dr. Renjini Joseph  
Jyalsu Abraham (Jyalsu)



DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE, KANJIRAPPALLY  
KOTTAYAM





**ST. DOMINIC'S COLLEGE  
KANJIRAPALLY**

**CERTIFICATE**

This is to certify that the project entitled **"ISOLATION OF PROTOPORPHYRIN IX FROM BROWN EGGSHELLS & IDENTIFICATION USING UV-VIS SPECTROPHOTOMETER"** submitted by **ESTHER ROSE JOSEPH NELLARY** in partial fulfillment for the award of the degree in chemistry of Mahatma Gandhi University is a bonafide record of the work carried out by her at St. Dominic's College Kanjirappally under my supervision and guidance.

**Minu Mary Sebastian**  
Teacher-in-Charge

**Dr. Renjini Joseph**  
HOD, Department of chemistry



# DETERMINATION OF PERCENTAGE OF CAFFEINE IN VARIOUS TEA SAMPLES

Project report submitted to Mahatma Gandhi University in Partial fulfillment of  
the requirement for the award of Degree of Bachelor of Science in Chemistry

Submitted By

Silpa Sivadas

Reg. No. 190021026791

B. Sc. Chemistry 2019-2022



Valued  
Dr. Renjini Jacob  
Ajalsna Abraham

DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE, KANJIRAPPALLY  
KOTTAYAM



**ST. DOMINIC'S COLLEGE**

**KANJIRAPPALLY**

**CERTIFICATE**

This is to certify that the project entitled "**Determination of Percentage of Caffeine in various Tea Sample**" submitted by **Silpa Sivadas** in Partial fulfillment for the award of the degree in chemistry of Mahatma Gandhi University is a Bonafede record of the work carried out by her at St. Dominic's College Kanjirappally under my supervision and guidance.

**Prof. Francis Thomas**  
Teacher-in-Charge



**Dr. Renjini Joseph**  
Head, Department of chemistry



ISOLATION OF PROTOPORPHYRIN IX FROM BROWN  
EGGSHELLS AND IDENTIFICATION USING UV-VIS  
SPECTROPHOTOMETER

PROJECT REPORT SUBMITTED TO MAHATMA GANDHI  
UNIVERSITY IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN  
CHEMISTRY

Submitted by  
AMRUTHA P A  
Register no: 190021026778  
BSc Chemistry  
2019-2022



Valued  
Dr. Resjini Joseph  
Jagana Abzalams Jagana

DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE KANJIRAPALLY  
KOTTAYAM


# ST. DOMINIC'S COLLEGE KANJIRAPALLY



## CERTIFICATE

This is to certify that the project entitled “ISOLATION OF PROTOPORPHYRIN IX FROM BROWN EGGSHELLS AND IDENTIFICATION USING UV-VIS SPECTROPHOTOMETER” submitted by AMRUTHA P A in partial fulfillment for the award of the degree in chemistry of Mahatma Gandhi University is a bonafide record of the work carried out by here at St.Dominic's College Kanjirapally under my supervision and guidance.

  
**Dr. Renjini Joseph**  
**Head of the Department**

  
**Minu Mary Sebastian**  
**(Teacher in charge)**

**Department of Chemistry**





# EXTRACTION AND ESTIMATION OF CHLOROPHYLL FROM MEDICINAL PLANTS

*Project report submitted to*

*Mahatma Gandhi University*

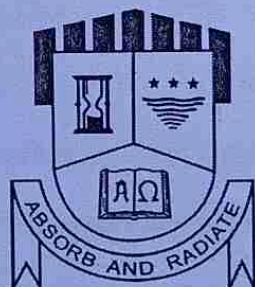
*in partial fulfilment of the requirements for the award of the degree*

**BACHELOR OF SCIENCE IN CHEMISTRY**

*Submitted by*

**ANSA FATHIMA**

Reg.No: 190021026797



Valued  
Dr. Resjini Joseph #11  
Jyalsma Abraham Jyalsma

**DEPARTMENT OF CHEMISTRY**

**ST. DOMINIC'S COLLEGE**

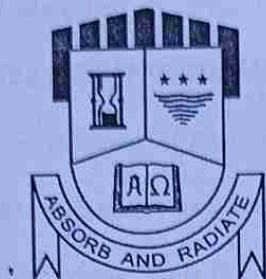
**KANJIRAPPALLY**

**KERALA**

**MAY - 2022**



DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY  
*Affiliated to Mahatma Gandhi University, Kottayam*



**CERTIFICATE**

This is to certify that this project titled "**EXTRACTION AND ESTIMATION OF CHLOROPHYLL FROM MEDICINAL PLANTS**" is a bonafide work done by **ANSA FATHIMA**, Reg. No: 190021026797 in this department under the guidance of **Prof. Jyolsna Abraham** for the partial fulfilment of the requirements for the award of degree in Bachelor of Science in chemistry of Mahatma Gandhi University, Kottayam.

Dr RENJINI JOSEPH

Head of the department of chemistry

PROF. JYOLSNA ABRAHAM

Project Guide



**DETERMINATION OF PERCENTAGE PURITY OF  
VARIOUS PARACETAMOL SAMPLES**

A project report submitted to the Mahatma Gandhi University, Kottayam,  
in partial fulfillment of the requirements for the award of Degree of  
Bachelor of Science in Chemistry.

Submitted by

**ANANDHU VINOD**

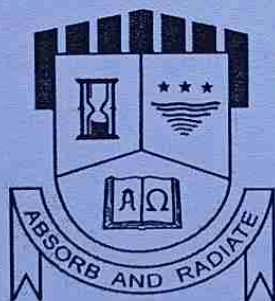
Reg No:190021026794

Year : 2021-2022

*Valmed*

*Dr. Renjini Joseph*

*Jyolana Abraham Jyolana*



**DEPARTMENT OF CHEMISTRY**

**ST.DOMINIC'S COLLEGE KANJIRAPPALLY , KERALA , 2022**

**DEPARTMENT OF CHEMISTRY**



# ST. DOMINIC'S COLLEGE KANJIRAPPALLY, KERALA



## CERTIFICATE

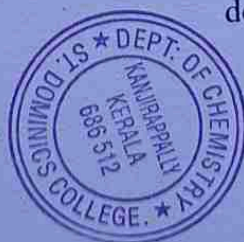
This is to certify that the project report entitled "**DETERMINATION OF PERCENTAGE PURITY OF VARIOUS PARACETAMOL SAMPLES**" is an authentic record of the work carried out by **ANANDHU VINOD**, Reg No: **190021026794** in partial fulfillment of the requirement for the award of the degree of Bachelor of science in Chemistry of Mahatma Gandhi University, Kottayam.

  
**Dr.RENJINI JOSEPH**

(Teacher in charge,  
department of chemistry)

  
**Dr.RENJINI JOSEPH**

(Head of the department,  
department of chemistry)





**DETERMINATION OF PERCENTAGE PURITY OF  
VARIOUS PARACETAMOL SAMPLES**

A project report submitted to the Mahatma Gandhi University, Kottayam,  
in partial fulfillment of the requirements for the award of Degree of  
Bachelor of Science in Chemistry.

Submitted by

**ALFIA SHAJI**

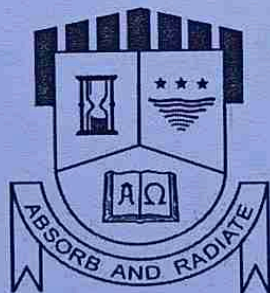
Reg No:190021026793

Year : 2021-2022

*Valmed*

*Dr. Renjini Josep*

*Jyalsna Abraham Jyalsna*



**DEPARTMENT OF CHEMISTRY**

**ST.DOMINIC'S COLLEGE KANJIRAPPALLY , KERALA , 2022**

**DEPARTMENT OF CHEMISTRY**

**ST. DOMINIC'S COLLEGE KANJIRAPPALLY, KERALA**



**CERTIFICATE**

This is to certify that the project report entitled "**DETERMINATION OF PERCENTAGE PURITY OF VARIOUS PARACETAMOL SAMPLES**" is an authentic record of the work carried out by **ALFIA SHAJI**, Reg No: **190021026793** in partial fulfillment of the requirement for the award of the degree of Bachelor of science in Chemistry of Mahatma Gandhi University, Kottayam.

  
**Dr. RENJINI JOSEPH**

(Teacher in charge,  
department of chemistry)

  
**Dr. RENJINI JOSEPH**

(Head of the department,  
department of chemistry)



# STUDY OF OXALATE ION CONTENT IN TOMATO

*A project report submitted for the partial fulfillment  
of the requirement for the degree of*

**Bachelor of science**

*In*

**CHEMISTRY**

*By*

**SONA JOSEPH**

**Reg No: 190021026807**

*Under the guidance of*

**Prof. Nidhin Joy**



**POST GRADUATE DEPARTMENT OF CHEMISTRY**

**ST. DOMINIC'S COLLEGE KANJIRAPPALLY, KOTTAYAM**

*( Re-accredited with A-Grade by the National Assessment and Accreditation Council )*

*Kanjirappally, Kerala, India*

**May 2022**

*Valued by*  
*Benjini Joseph*  
*Jyalsua Abraham*





**POST GRADUATE DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY, KOTTAYAM**


*( Re-accredited with A-Grade by the National Assessment and Accreditation Council )*

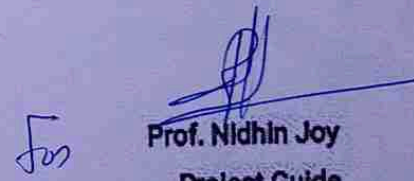
*Kanjirappally, Kerala, India*

**May 2022**

## **CERTIFICATE**

This is to certify that Mrs. Sona Joseph has carried out the project entitled " Study of oxalate ion content in tomato " under my supervision for the partial fulfillment of the degree of Bachelor of science in Chemistry of, Mahatma Gandhi University, Kottayam, Kerala.

  
**Dr. Renjini Joseph**  
Head of the Department  
Department of Chemistry

  
**Prof. Nidhin Joy**  
Project Guide  
Assistant professor  
Department of Chemistry



# DETERMINATION OF OXALATE IONS IN GUAVA FRUIT AT DIFFERENT STAGES OF RIPENING

---

*Project report submitted to*

*Mahatma Gandhi University*

*in partial fulfilment of the requirements for the award of the degree*

**BACHELOR OF SCIENCE IN CHEMISTRY**

*Submitted by*

**ASHA JYOTHI JOSEPH**

Reg.No: 190021026799



**DEPARTMENT OF CHEMISTRY**

**ST. DOMINIC'S COLLEGE**

**KANJIRAPPALLY**

**KERALA**

**MAY- 2022**

*Valued by*  
*Dr. Renjini Joseph*  
*Jyalsu Abraham*

**DEPARTMENT OF CHEMISTRY**  
**ST. DOMINIC'S COLLEGE KANJIRAPPALLY**  
*Affiliated to Mahatma Gandhi University, Kottayam*



**CERTIFICATE**

This is to certify that this project titled **“DETERMINATION OF OXALATE IONS IN GUAVA FRUIT AT DIFFERENT STAGES OF RIPENING”** is a bonafide work done by **ASHA JYOTHI JOSEPH** Reg. No: **190021026799** in this department under the guidance of **Prof. Nidhin Joy** for the partial fulfilment of the requirements for the award of degree in Bachelor of Science in chemistry of Mahatma Gandhi University, Kottayam.

Dr RENJINI JOSEPH

Head of the department of chemistry

PROF. Nidhin Joy

Project Guide





**PREPARATION AND CHARACTERISATION OF IL rGO/CNT BINARY  
ELECTRODE AND PVDF/ZnO NANOFIBER FILM AS SEPARATOR FOR  
SUPERCAPACITOR APPLICATION**

*Project report submitted to*

**Mahatma Gandhi University**

*in partial fulfilment of the requirements for the award of the degree*

**MASTERS OF SCIENCE IN CHEMISTRY**

*Submitted by*

**KRUPA MARIA DOMINIC**

Reg.No: 200011009937



**POST GRADUATE DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY**

*Affiliated to Mahatma Gandhi University, Kottayam*

*Under the guidance of*

**DR. SONY C GEORGE (PROFESSOR)  
AMAL JYOTHI COLLEGE, KOOVAPALLY**



*Valued*  
*Dr. Renjini Josepl*

*Jyothsna Abraham*

**ST DOMINICS COLLEGE  
KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that the project entitled ***“PREPARATION AND CHARACTERISATION OF IL rGO/CNT BINARY ELECTRODE AND PVDF/ZnO NANOFIBER FILM AS SEPARATOR FOR SUPERCAPACITOR APPLICATION”*** submitted by **KRUPA MARIA DOMINIC** in partial fulfilment for the award of degree of Master of Science in Chemistry of Mahatma Gandhi University, Kottayam is bonafide work carried out by her at Amal Jyothi College of Engineering under the supervision of **DR. SONEY C GEORGE**, Dean Research Director, Centre for Nanoscience and Technology, Amal Jyothi College Koovappally and Prof. Jyolsna Abraham, Dept of Chemistry, St Dominic’s College Kanjirappally.

  
**DR RENJINI JOSEPH**

Head of the Department

St Dominic’s College Kanjirappally



  
**Prof. JYOLSNA ABRAHAM**

Project Guide





AMAL JYOTHI  
COLLEGE OF ENGINEERING  
KANJIRAPPALLY



Accredited U-Tech  
Programmes in  
CE CH CS  
EC EE ME



Approved by AICTE • Affiliated to APJ Abdul Kalam Technological University, Kerala

## CERTIFICATE

*This is to certify that the project work entitled "PREPARATION AND CHARACTERISATION OF IL rGO/CNT BINARY ELECTRODE AND PVDF/ZnO NANOFIBER FILM AS SEPARATOR FOR SUPERCAPACITOR APPLICATION" is a bonafide record of project work carried out by Ms. Krupa Maria Dominic (Register No: 200011009937) under my guidance, in partial fulfillment of the requirement for the award of the degree of Master of Science in Pure Chemistry of Mahatma Gandhi University, Kerala. This work presented in this report has not been submitted for any other degree or diploma earlier.*

Kanjirappally

Date:

Dr. Soney C George

Supervising Teacher

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# **A study on experimental, characterization and compounding instruments**

A project report submitted in partial fulfillment of the requirement for the degree of Master of Science in Chemistry.

By

**POOJA VIJAYAN**

**Reg.No.200011009940**



Post graduate department of chemistry

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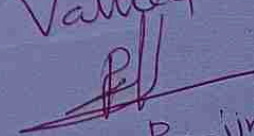
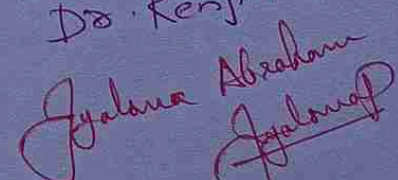
Under the guidance of

**Prof. Dr. Sabu Thomas**

**School of Chemical Science**



**Mahatma Gandhi University, Kottayam.**

Valued  
  
Dr. Renjini Joseph  
  
Jyalsara Abraham

# ST. DOMINIC'S COLLEGE KANJIRAPPALLY

(Accredited by the NAAC with A Level)

Parathode P.O, Kanjirapally Kerala 686512



## CERTIFICATE

This is to certify that this work entitled "A STUDY ON EXPERIMENTAL, CHARACTERISATION AND COMPOUNDING INSTRUMENTS" was done by **POOJA VIJAYAN** Reg. No. **200011009940** in St. Dominic's College Kanjirapally in partial fulfillment of the requirements for the Degree of Master of Science in Chemistry during the year 2020-2022.



Dr. Renjini Joseph  
Head of the department  
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Ms. Minu Mary Sebastian  
Project mentor  
Guest lecturer  
St. Dominic's College  
Kanjirapally






## CERTIFICATE

This is to certify that the project entitled "A STUDY ON EXPERIMENTAL, CHARACTERIZATION AND COMPOUNDING INSTRUMENTS" is an authentic record of the work carried out by MS. POOJA VIJAYAN (Reg. No. 200011009940); St. Dominic's College Kanjirapally Kottayam under my guidance and supervision at the School of Chemical Science, Mahatma Gandhi University, Kottayam, Kerala in partial fulfillment of the requirements for the award of the degree of master of science in chemistry from Mahatma Gandhi University.



  
Prof. Dr. SABU THOMAS  
Director, School of Energy Materials  
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# A STUDY ON EXPERIMENTAL, CHARACTERIZATION AND COMPOUNDING INSTRUMENTS

A project report submitted in partial fulfillment of the requirement for the  
degree of Master of Science in Chemistry.

By

**Shahana Shahjahan**



Post graduate department of chemistry  
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**Dr. Anisa**

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*Dr. Reshmi Joseph*  
*Abraham*

# ST. DOMINIC'S COLLEGE KANJIRAPPALLY

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## CERTIFICATE

This is to certify that this work entitled "**A STUDY ON EXPERIMENTAL, CHARACTERIZATION AND COMPOUNDING INSTRUMENTS**" was done by **SHAHANA SHAJAHAN** Reg. No. **200011009941** in Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the Degree of Master of Science in Chemistry during the year 2020-2022

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This is to certify that the project entitled "A STUDY ON EXPERIMENTAL, CHARACTERIZATION AND COMPOUNDING INSTRUMENTS" is an authentic record of the work carried out by MS. SHAHANA SHAJAHAN (Reg. No. 200011009941) St. Dominic's College, Kanjirapally under my guidance and supervision at the School of Chemical Science, Mahatma Gandhi University, Kottayam, Kerala in partial fulfillment of the requirements for the award of the degree of master of science in chemistry from Mahatma Gandhi University



  
Prof. Dr. SABU THOMAS  
Director, School of Energy Materials  
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Kottayam, Kerala, India



# **A study on Experimental, Characterization and Compounding Instruments**

*A project report submitted in partial fulfillment of the requirement for the degree of Master of  
Science in Chemistry.*

By

**VINAYA S**

**Reg. No. 200011009943**

**2020-2022**



Post Graduate Department of Chemistry

St. Dominic's College, Kanjirapally.

Under the guidance of

**Prof Dr. Sabu Thomas**

**School of Chemical Science**

**Mahatma Gandhi University, Kottayam.**



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Dr. Renjini Joseph  
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**ST. DOMINIC'S COLLEGE KANJIRAPPALLY**

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This is to certify that this work entitled **“A STUDY ON THE EXPERIMENTAL, CHARACTERISATION AND COMPOUNDING INSTRUMENTS”** was done by **VINAYA S (Reg.No.200011009943)** in Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the Degree of Master of Science in chemistry during the year 2020-2022.



Dr. Renjini Joseph

Head of the Department

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Francis Thomas

Mentor, Assistant Professor


St. Dominic's College Kanjirappally



## CERTIFICATE

This is to certify that the project entitled "A STUDY ON EXPERIMENTAL, CHARACTERIZATION AND COMPOUNDING INSTRUMENTS" is an authentic record of the work carried out by MS. VINAYA S (Reg. No. 200011009943); St. Dominic's College, Kanjirapally Kottayam under my guidance and supervision at the School of Chemical Science, Mahatma Gandhi University, Kottayam, Kerala in partial fulfillment of the requirements for the award of the degree of master of science in chemistry from Mahatma Gandhi University



  
Prof. Dr. SABU THOMAS  
Director, School of Energy Materials  
Mahatma Gandhi University,  
Kottayam, Kerala, India



# MOLECULAR DOCKING STUDIES OF QUERCETIN AND INDOMETHACIN ON 5GMN PROTEIN

Project report submitted to  
MAHATMA GANDHI UNIVERSITY  
In the partial fulfillment of the award of the degree of  
MASTER OF SCIENCE IN CHEMISTRY

Submitted by  
CHINCHU K SABU  
Reg No: 200011009934





POST GRADUATE DEPARTMENT OF CHEMISTRY  
ST DOMINICS COLLEGE KANJIRAPPALLY  
NAAC RE-ACCREDITED WITH A GRADE

Under the guidance of  
DR. THOMAS V MATHEW  
Associate Professor



RESEARCH AND POST GRADUATE DEPARTMENT OF CHEMISTRY  
DST FIST Sponsored Department  
ST THOMAS COLLEGE PALAI  
NAAC RE-ACCREDITED WITH A++ GRADE

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*Valued*  
*Dr. Renjini Josep*   
*Jyabama Abraham* 

ST DOMINICS COLLEGE KANJIRAPPALLY



CERTIFICATE

This is to certify that the project entitled "*MOLECULAR DOCKING STUDIES OF QUERCETIN AND INDOMETHACIN ON 5GMN PROTEIN*" submitted by **CHINCHU K SABU** in partial fulfilment for the award of degree of Master of Science in Chemistry of Mahatma Gandhi University, Kottayam is bonafied carried out by her at ST THOMAS COLLEGE PALA under the supervision of **DR THOMAS V MATHEW**, Assistant professor, Department of Chemistry, ST THOMAS COLLEGE PALA, Kottayam.

Kanjirappally

September 2022

**DR RENJINI JOSEPH**

Project Mentor

Head of the Department

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# ST. THOMAS COLLEGE, PALAI

RE-ACCREDITED WITH 'A++' GRADE BY NAAC WITH CGPA 3.56 COLLEGE WITH POTENTIAL FOR EXCELLENCE (UGC -CPE)

INCLUDED UNDER SECTION 2 (F) & 12 (B) OF THE UGC ACT 1956

AFFILIATED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM, KERALA

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## CERTIFICATE

This is to certify that the project report entitled "*MOLECULAR DOCKING STUDIES OF QUERCETIN AND INDOMETHACIN ON 5GMN PROTEIN*" is an authentic record, of the work carried out by Ms. **CHINCHU K SABU** (Reg No:200011009934) under my supervision and guidance during the period 2020-'22 in partial fulfilment of the degree of Master of Science under the Faculty of Science, Mahatma Gandhi university, Kottayam. The work presented in this report has not been submitted for any other degree or diploma earlier.

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14 September 2022

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# MOLECULAR DOCKING STUDIES OF CELECOXIB AND EPICATECHIN ON 5GMN PROTEIN

Project report submitted to  
MAHATMA GANDHI UNIVERSITY  
In the partial fulfillment of the award of the degree of  
MASTER OF SCIENCE IN CHEMISTRY

Submitted by  
**DONA MARIYA JOSEPH**  
Reg No: 200011009935


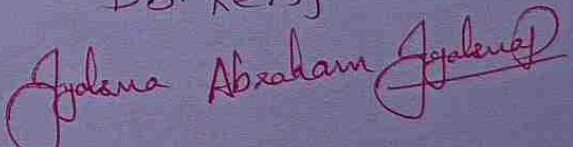


POST GRADUATE DEPARTMENT OF CHEMISTRY  
ST DOMINICS COLLEGE KANJIRAPPALLY  
NAAC RE-ACCREDITED WITH A GRADE

Under the guidance of  
**DR. THOMAS V MATHEW**  
Associate Professor



RESEARCH AND POST GRADUATE DEPARTMENT OF CHEMISTRY  
DST FIST Sponsored Department  
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NAAC RE-ACCREDITED WITH A++ GRADE

Valued  
  
Dr. Renjith Joseph  
  
Juliana Abraham

ST DOMINICS COLLEGE KANJIRAPPALLY



CERTIFICATE

This is to certify that the project entitled "*MOLECULAR DOCKING STUDIES OF CELECOXIB AND EPICATECHIN ON 5GMN PROTEIN*" submitted by DONA MARIYA JOSEPH in partial fulfilment for the award of degree of Master of Science in Chemistry of Mahatma Gandhi University, Kottayam is bonafied carried out by her at ST THOMAS COLLEGE PALA under the supervision of DR THOMAS V MATHEW, Associate professor, Department of Chemistry, ST THOMAS COLLEGE PALAI, Kottayam.

  
DR RENJINI JOSEPH

Head of the Department

St Dominic's College Kanjirappally

For   
DR RANI ALPHONSA JOSE

Project Mentor

Assistant Professor

St Dominics College Kanjirappaly







# ST. THOMAS COLLEGE, PALAI

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INCLUDED UNDER SECTION 2 (f) & 12 (B) OF THE UGC ACT 1956 AFFILIATED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM, KERALA

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## CERTIFICATE

This is to certify that the project report entitled "*MOLECULAR DOCKING STUDIES OF CELECOXIB AND EPICATECHIN ON 5GMN PROTEIN*" is an authentic record, of the work carried out by Ms. DONA MARIYA JOSEPH (Reg No:200011009935) under my supervision and guidance during the period 2020-'22 in partial fulfilment of the degree of Master of Science under the Faculty of Science, Mahatma Gandhi university, Kottayam. The work presented in this report has not been submitted for any other degree or diploma earlier.

DR.THOMAS V MATHEW  
Project Supervisor

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14 September 2022

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# **A study on Experimental, Characterization and Compounding Instruments**

*A project report submitted in partial fulfillment of the requirement for the degree of Master of  
Science in Chemistry.*

By

**NORA JOSEPH**

**Reg. No. 200011009939**

**2020-2022**



Post Graduate Department of Chemistry  
St. Dominic's College, Kanjirapally.

Under the guidance of

**Prof Dr. Sabu Thomas**

**School of Chemical Science**

**Mahatma Gandhi University, Kottayam.**



Valued

Dr. Renjini Joseph

Jyaleena Abraham Jyaleena



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**CERTIFICATE**

This is to certify that this work entitled **“A STUDY ON THE EXPERIMENTAL, CHARACTERISATION AND COMPOUNDING INSTRUMENTS”** was done by **NORA JOSEPH (Reg.No.200011009939)** in Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the Degree of Master of Science in chemistry during the year 2020-2022.

Dr. Renjini Joseph

Head of the Department

St. Dominic's College Kanjirappally



Francis Thomas

Mentor, Assistant Professor

St. Dominic's College Kanjirappally



## CERTIFICATE

This is to certify that the project entitled "A STUDY ON EXPERIMENTAL, CHARACTERIZATION AND COMPOUNDING INSTRUMENTS" is an authentic record of the work carried out by MS. NORA JOSEPH (Reg. No. 200011009939); St. Dominic's College, Kanjirapally under my guidance and supervision at the School of Chemical Science, Mahatma Gandhi University, Kottayam, Kerala in partial fulfillment of the requirements for the award of the degree of Master of Science in chemistry from Mahatma Gandhi University.



Prof. Dr. SABU THOMAS  
Director, School of Energy Materials  
Mahatma Gandhi University,  
Kottayam, Kerala, India



**MULTIFUNCTIONAL GRAPHENE OXIDE LOADED  
POLYURETHANE FIBRE FOR REMOVAL OF DYES AND OIL  
FROM WATER**

*Project report submitted to*

*Mahatma Gandhi University*

*in partial fulfilment of the requirements for the award of the degree*

**MASTER OF SCIENCE IN CHEMISTRY**

*Submitted by*

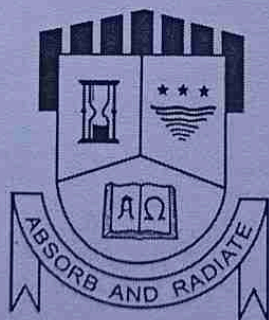
**JOICE THERAS JOY**

Reg. No: 200011009936

UNDER THE GUIDANCE OF

**DR. SONEY C GEORGE (PROFESSOR)**

**AMAL JYOTHI COLLEGE, KOOVAPALLY**



DEPARTMENT OF CHEMISTRY

ST. DOMINIC'S COLLEGE

Valued  
Dr. Renjini Joseph  
Jyothana Abraham

DEPARTMENT OF CHEMISTRY  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY

*Affiliated to Mahatma Gandhi University, Kottayam*



CERTIFICATE

This is to certify that this project titled **“MULTIFUNCTIONAL GRAPHENE OXIDE LOADED POLYURETHANE FIBRE FOR REMOVAL OF DYES AND OIL FROM WATER”** is a bonafide work done by **JOICE THERAS JOY**, Reg. No: **200011009936** at Amal Jyothi College of Engineering under the guidance of **DR. SONEY C GEORGE**, Dean Research Director, Centre for Nanoscience and Technology, Amal Jyothi College of Engineering, Koovapally and **Prof. MARY PITUNIA C MATHEW**, Dept of Chemistry, St Dominic's College Kanjirappally for the partial fulfilment of the requirements for the award of degree in Mater of Science in Chemistry of Mahatma Gandhi University, Kottayam.

  
DR. RENJINI JOSEPH

Head of the department of chemistry

St Dominic's College Kanjirappally



  
PROF. MARY PITUNIA C MATHEW

Project Guide





**AMAL JYOTHI**  
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Approved By: AICTE    Affiliated to: APJ Abdul Kalam Technological University, Kerala

## CERTIFICATE

This is to certify that the project work entitled, "MULTIFUNCTIONAL GRAPHENE OXIDE LOADED POLYURETHANE FIBRE FOR REMOVAL OF DYES AND OIL FROM WATER" is a bonafide record of project work carried out by Ms. JOICE THERAS JOY (Register No: 200011009936) under my guidance, in partial fulfillment of the requirement for the award of the degree of Master of Science in Pure Chemistry of Mahatma Gandhi University, Kerala. This work presented in this report has not been submitted for any other degree or diploma earlier.

KANJIRAPPALLY

DATE: 26.09.2022

DR. SONEY C GEORGE

Supervising Teacher

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# A study on experimental, characterization and compounding instruments

A project report submitted in partial fulfillment of the requirement for the degree of Master of Science in Chemistry.

By

Nikitha Antony



Post graduate department of chemistry

St. Dominic's College, Kanjirappally.

Under the guidance of

**Prof Dr. Sabu Thomas**

**School of Energy Materials**

**Mahatma Gandhi University, Kottayam**



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Dr. Renjini Joseph  
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**CERTIFICATE**

This is to certify that this work entitled "**A STUDY ON EXPERIMENTAL, CHARACTERIZATION AND COMPOUNDING INSTRUMENTS**" was done by **NIKITHA ANTONY** Reg No: 200011009938 in Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the degree of Masters of Science in Chemistry during the year 2020-2022

Dr. Renjini Joseph

Head of the Department

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Prof. Nidhin Joy

Project Mentor

Assistant Professor


St. Dominic's College, Kanjirapally



## CERTIFICATE

This is to certify that the project entitled "**A STUDY ON EXPERIMENTAL, CHARACTERIZATION AND COMPOUNDING INSTRUMENTS**" is an authentic record of the work carried out by MS. NIKITHA ANTONY (Reg. No. 200011009938); St. Dominic's College, Kanjirapally under my guidance and supervision at the School of Chemical Science, Mahatma Gandhi University, Kottayam, Kerala in partial fulfillment of the requirements for the award of the degree of master of science in chemistry from Mahatma Gandhi University



  
Prof. Dr. SABU THOMAS  
Director, School of Energy Materials  
Mahatma Gandhi University  
Kottayam, Kerala, India



# A study on experimental, characterization and compounding instruments

A project report submitted in partial fulfillment of the requirement for the degree of Master of Science in Chemistry.

By

Treesa Jose



Post graduate department of chemistry

St. Dominic's College, Kanjirappally.

Under the guidance of

**Prof Dr SABU THOMAS**

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Dr. Renjithi Joseph  
Joseph Abraham Joseph

# ST. DOMINIC'S COLLEGE KANJIRAPPALLY

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## CERTIFICATE

This is to certify that this work entitled "A STUDY ON EXPERIMENTAL, CHARACTERIZATION AND COMPOUNDING INSTRUMENTS" was done by **TREESA JOSE** Reg. No. **200011009942** in Mahatma Gandhi University, Kottaym in partial fulfillment of the requirements for the Degree of Master of Science in Chemistry during the year 2020-2022

Dr Renjini Joseph.

Head of the Department

St. Dominic's College

Kanjirapally

Nidhin Joy

Project Guide

Assistant Professor

St. Dominic's College

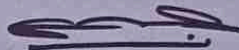
Kanjirapally



## CERTIFICATE

This is to certify that the project entitled "**A STUDY ON EXPERIMENTAL, CHARACTERIZATION AND COMPOUNDING INSTRUMENTS**" is an authentic record of the work carried out by MS.TREESA JOSE (Reg. No. 200011009942); St. Dominic's College, Kanjirapally under my guidance and supervision at the School of Chemical Science, Mahatma Gandhi University, Kottayam, Kerala in partial fulfillment of the requirements for the award of the degree of master of science in chemistry from Mahatma Gandhi University



  
Prof. Dr. SABU THOMAS  
Director, School of Energy Materials  
Mahatma Gandhi University  
Kottayam, Kerala, India



**KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that the dissertation entitled “Climbing **plants of St.Dominic’s college Kanjirappally :A floristic Approach**” to Mahatma Gandhi University in partial fulfillment for the award of Degree of Bachelor of Science in Botany is the original work done by **DONA THOMAS(Reg.No: 190021025053)** during her final year B.Sc course in Department of Botany, St. Dominic’s College, Kanjirappally, affiliated to Mahatma Gandhi university under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate at any university.

**Dr. RD ARUN RAJ**

Department of Botany

St. Dominic's college, Kanjirappally

**Approved by**

**Prof. Michael Thomas**

Head of the Department of Botany

St. Dominic's college, Kanjirappally

Place: Kanjirappally

Date:20/05/2022



KANJIRAPPALLY



**CERTIFICATE**

This is to certify that the dissertation entitled "Climbing plants of St. Dominic's college Kanjirappally :A floristic Approach" to Mahatma Gandhi University in partial fulfillment for the award of Degree of Bachelor of Science in Botany is the original work done by **SALUKRISHNA V.S(Reg.No: 190021025061)** during her final year B.Sc course in Department of Botany, St. Dominic's College, Kanjirappally, affiliated to Mahatma Gandhi university under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate at any university.

**Dr. RD ARUN RAJ**

Department of Botany

St. Dominic's college, Kanjirappally

Approved by

**Prof. Michael Thomas**

Head of the Department of Botany

St. Dominic's college, Kanjirappally

Place: Kanjirappally Date: 20/05/2022



DEPARTMENT OF BOTANY  
ST. DOMINIC COLLEGE  
KANJIRAPPALLY

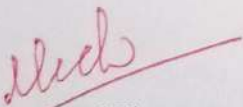


## Certificate

This is to certify that the project work entitled “**Preliminary Phytochemical Screening and Larvicidal Activity of *Vitex negundo* L leaf Extract on *Aedes aegypti* L Mosquito Larvae**” is an authentic record of original research work carried out by **Jomol Joy(Reg.No:190021025056)** under my supervision and guidance and no part of this work has been presented for any degree, diploma or any other similar titles of any University.

Podimattom  
May 2022

Dr. Sallykutty Thomas  
Assistant Professor  
Department of Botany  
St. Dominic's College  
Kanjirappally

  
Prof. Michael Thomas  
Head of the Department  
St. Dominic's College  
Kanjirappally





DEPARTMENT OF BOTANY  
ST. DOMINIC'S COLLEGE  
KANJIRAPPALLY

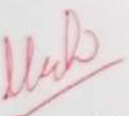



Certificate

This is to certify that the project work entitled "*STUDY ON DIFFERENT PLANTS OF MALVACEAE FAMILY AND THEIR MEDICINAL USE IN WARD 11 OF KANJIRAPPALLY*" is an authentic record of original research work carried out by **AMANA SHAHUL (Reg No:190021025064)** under my supervision and guidance and no part of this work has been presented for any degree, diploma or any other similar titles of any University.

Podimattom

May 2022

  
Prof. Michael Thomas  
Head of the Department  
St. Dominic's College  
Kanjirappally

  
Prof. Michael Thomas  
Head of the Department  
Department of Botany  
St. Dominic's College  
Kanjirappally




DEPARTMENT OF BOTANY  
ST. DOMINIC'S COLLEGE  
KANJIRAPPALLY




**Certificate**

This is to certify that the project work entitled "*STUDY ON DIFFERENT PLANTS OF MALVACEAE FAMILY AND THEIR MEDICINAL USE IN WARD II OF KANJIRAPPALLY*" is an authentic record of original research work carried out by **NIKSON SOY (Reg No:190021025060)** under my supervision and guidance and no part of this work has been presented for any degree, diploma or any other similar titles of any University.

Podimattom  
May 2022

  
Prof. Michael Thomas  
Head of the Department  
St. Dominic's College  
Kanjirappally

  
Prof. Michael Thomas  
Head of the Department  
Department of Botany  
St. Dominic's College  
Kanjirappally




DEPARTMENT OF BOTANY  
ST. DOMINIC'S COLLEGE  
KANJIRAPPALLY




Certificate

This is to certify that the project work entitled "*STUDY ON DIFFERENT PLANTS OF MALVACEAE FAMILY AND THEIR MEDICINAL USE IN WARD II OF KANJIRAPPALLY*" is an authentic record of original research work carried out by **ATHIRA K.M(Reg No:190021025051)** under my supervision and guidance and no part of this work has been presented for any degree, diploma or any other similar titles of any University.

Podimattom  
May 2022

  
Prof. Michael Thomas  
Head of the Department  
Department of Botany  
St. Dominic's College  
Kanjirappally

  
Prof. Michael Thomas  
Head of the Department  
St. Dominic's College  
Kanjirappally





ST.DOMINIC'S COLLEGE

KANJIRAPPALLY



## CERTIFICATE

This is to certify that the dissertation entitled "Climbing plants of St. Dominic's college Kanjirappally :A floristic Approach" to Mahatma Gandhi University in partial fulfillment for the award of Degree of Bachelor of Science in Botany is the original work done by **NAZRIN C.**

**S(Reg.No: 190021025067)** during her final year B.Sc course in Department of Botany, St.

Dominic's College, Kanjirappally, affiliated to Mahatma Gandhi university under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate at any university.

**Dr. RD ARUN RAJ**

Department of Botany

St. Dominic's college, Kanjirappally

Approved by

**Prof. Michael Thomas**

Head of the Department of Botany

St. Dominic's college, Kanjirappally

Place: Kanjirappally

Date:20/05/2022



DEPARTMENT OF BOTANY  
ST. DOMINIC COLLEGE  
KANJIRAPPALLY



Certificate

This is to certify that the project work entitled “**Preliminary Phytochemical Screening and Larvicidal Activity of *Vitex negundo* L leaf Extract on *Aedes aegypti* L Mosquito Larvae**” is an authentic record of original research work carried out by **Amsusree Sasikumar (Reg.No:190021025047)** under my supervision and guidance and no part of this work has been presented for any degree, diploma or any other similar titles of any University.

Podimattom  
May 2022

Dr. Sallykutty Thomas  
Assistant Professor  
Department of Botany  
St. Dominic's College  
Kanjirappally

Prof. Michael Thomas  
Head of the Department

St. Dominic's College  
Kanjirappally



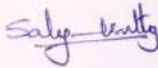
DEPARTMENT OF BOTANY  
ST. DOMINI'C COLLEGE  
KANJIRAPPALLY




Certificate

This is to certify that the project work entitled “Preliminary Phytochemical Screening and Larvicidal Activity of *Vitex negundo* L leaf Extract on *Aedes aegypti* L Mosquito Larvae” is an authentic record of original research work carried out by Aravind Mohan V R (Reg No:190021025049) under my supervision and guidance and no part of this work has been presented for any degree, diploma or any other similar titles of any University.

Podimattom  
May 2022

  
Dr. Sallykutty Thomas  
Assistant Professor  
Department of Botany  
St. Dominic's College  
Kanjirappally

  
Prof. Michael Thomas  
Head of the Department  
St. Dominic's College  
Kanjirappally





(Affiliated to Mahatma Gandhi University Accredited by NAAC with A grade)

## CERTIFICATE

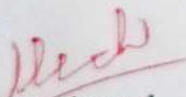
This is to certify that the dissertation titled "MEDICINALLY POTENTIAL PLANTS OF LAMIACEAE FAMILY: AN OVERVIEW" submitted to Mahatma Gandhi University in partial fulfillment for the award of Degree of Bachelor of Science in Botany is the original work done by ANCHANA SUNNY (Reg. No: 190021025065) during her final year B. Sc. course in Department of Botany, St. Dominic's college, Kanjirappally, affiliated to Mahatma Gandhi University under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate any university.

Place: Kanjirappally

Date: 18-05-2022

Supervisor Name

Mrs. ANITA JOY

  
Countersigned

Prof. Michael Thomas

Head, Department of Botany

St. Dominic,s College, Kanjirappally



**ST.DOMINIC'S COLLEGE**

**KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that the dissertation entitled "Climbing plants of St.Dominic's college Kanjirappally :A floristic Approach" to Mahatma Gandhi University in partial fulfillment for the award of Degree of Bachelor of Science in Botany is the original work done by **Sayeed** (Reg.No: 190021025062) during her final year B.Sc course in Department of Botany, St. Dominic's College, Kanjirappally, affiliated to Mahatma Gandhi university under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate at any university.

**Dr. RD ARUN RAJ**

Department of Botany

St. Dominic's college, Kanjirappally

**Approved by**

**Prof. Michael Thomas**

Head of the Department of Botany

St. Dominic's college, Kanjirappally

Place: Kanjirappally

Date:20/05/2022







DEPARTMENT OF BOTANY  
ST. DOMINI'C COLLEGE  
KANJIRAPPALLY

## Certificate

This is to certify that the project work entitled "A Study on Algal flora of St. Dominic's College campus, Kanjirappally, Kerala, India" is an authentic record of original research work carried out by **Kanchana Shibi (190021025057)** under my supervision and guidance and no part of this work has been presented for any degree, diploma or any other similar titles of any University.

Podimattom

May 2022

Prof. Michael Thomas  
Head of the Department  
St. Dominic's College  
Kanjirappally

Dr. Prasanthkumar S  
Assistant Professor  
Department of Botany  
St. Dominic's College  
Kanjirappally





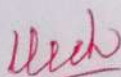


DEPARTMENT OF BOTANY  
ST. DOMINIC COLLEGE  
KANJIRAPPALLY


## Certificate

This is to certify that the project work entitled "A Study on Algal flora of St. Dominic's College campus, Kanjirappally, Kerala, India" is an authentic record of original research work carried out by Megha Varghese (190021025058) under my supervision and guidance and no part of this work has been presented for any degree, diploma or any other similar titles of any University.

Podimattom  
May 2022

  
Prof. Michael Thomas  
Head of the Department  
St. Dominic's College  
Kanjirappally



  
Dr. Prasanthkumar S  
Assistant Professor  
Department of Botany  
St. Dominic's College  
Kanjirappally

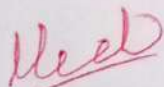


DEPARTMENT OF BOTANY  
ST. DOMINIC COLLEGE  
KANJIRAPPALLY


## Certificate

This is to certify that the project work entitled "A Study on Algal flora of St. Dominic's College campus, Kanjirappally, Kerala, India" is an authentic record of original research work carried out by Aleena Sara Reji (190021025046) under my supervision and guidance and no part of this work has been presented for any degree, diploma or any other similar titles of any University.

Podimattom  
May 2022

  
Prof. Michael Thomas  
Head of the Department  
St. Dominic's College  
Kanjirappally



  
Dr. Prasanthkumar S  
Assistant Professor  
Department of Botany  
St. Dominic's College  
Kanjirappally



(Affiliated to Mahatma Gandhi University Accredited by NAAC with A grade)

## CERTIFICATE

This is to certify that the dissertation titled "MEDICINALLY POTENTIAL PLANTS OF LAMIACEAE FAMILY: AN OVERVIEW" submitted to Mahatma Gandhi University in partial fulfillment for the award of Degree of Bachelor of Science in Botany is the original work done by ASWATHY ANIL (Reg. No: 190021025050) during her final year B. Sc. course in Department of Botany, St. Dominic's college, Kanjirappally, affiliated to Mahatma Gandhi University under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate any university.

Place: Kanjirappally

Date: 18-05-2022

Supervisor Name

Mrs. ANITA JOY

  
Countersigned

Prof. Michael Thomas

Head, Department of Botany

St. Dominic,s College, Kanjirappally



  
18/05/22



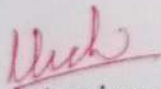
(Affiliated to Mahatma Gandhi University Accredited by NAAC with A grade)

## CERTIFICATE

This is to certify that the dissertation titled "MEDICINALLY POTENTIAL PLANTS OF LAMIACEAE FAMILY: AN OVERVIEW" submitted to Mahatma Gandhi University in partial fulfillment for the award of Degree of Bachelor of Science in Botany is the original work done by CHINNU K SABU (Reg. No: 190021025052 ) during her final year B. Sc. course in Department of Botany, St. Dominic's college, Kanjirappally, affiliated to Mahatma Gandhi University under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate any university.

Place: Kanjirappally

Date: 18-05-2022

  
Countersigned

Prof. Michael Thomas

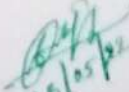
Head, Department of Botany

St. Dominic,s College, Kanjirappally



Supervisor Name

Mrs. ANITA JOY

  
18/05/22

(Affiliated to Mahatma Gandhi University Accredited by NAAC with A grade)

## CERTIFICATE

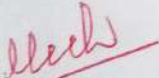
This is to certify that the dissertation titled "MEDICINALLY POTENTIAL PLANTS OF LAMIACEAE FAMILY: AN OVERVIEW" submitted to Mahatma Gandhi University in partial fulfillment for the award of Degree of Bachelor of Science in Botany is the original work done by FAHAD SHANAVAS (Reg. No: 190021025066) during his final year B. Sc. course in Department of Botany, St. Dominic's college, Kanjirappally, affiliated to Mahatma Gandhi University under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate any university.

Place: Kanjirappally

Date: 18-05-2022

Supervisor Name

Mrs. ANITA JOY

  
Countersigned

Prof. Michael Thomas

Head, Department of Botany

St. Dominic's College, Kanjirappally





POST GRADUATE DEPARTMENT OF BOTANY  
ST.DOMINIC'S COLLEGE  
KANJIRAPPALLY



CERTIFICATE


This is to certify that the dissertation entitled ' **INVESTIGATION OF EPIPHYTES AND PARASITES IN PARATHODU PANCHAYAT** submitted to Mahatma Gandhi University in partial fulfillment for the award of Degree of Bachelor of Science in Botany is the original work done by **Thasni Sha (Reg.No: 190021025068)** during her final year B.Sc course in Department of Botany, St. Dominic's College, Kanjirappally, affiliated to Mahatma Gandhi university under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate at any university.

  
Dr. Jyothi Abraham

Department of Botany

St. Dominic's college, Kanjirappally

Approved by

  
Prof. Michael Thomas

Head of the Department of Botany

St. Dominic's college, Kanjirappally

Place: Kanjirappally

Date:





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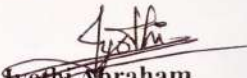
ST.DOMINIC'S COLLEGE

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CERTIFICATE

This is to certify that the dissertation entitled ' INVESTIGATION OF EPIPHYTES AND PARASITES IN PARATHODU PANCHAYAT submitted to Mahatma Gandhi University in partial fulfillment for the award of Degree of Bachelor of Science in Botany is the original work done by **Gayathri C Raj (Reg.No: 190021025053)** during her final year B.Sc course in Department of Botany, St. Dominic's College, Kanjirappally, affiliated to Mahatma Gandhi university under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate at any university.

  
Dr. Jyothi Abraham

Department of Botany

St. Dominic's college, Kanjirappally

Approved by

  
Prof. Michael Thomas

Head of the Department of Botany

St. Dominic's college, Kanjirappally

Place: Kanjirappally

Date: 20/05/2022



## CERTIFICATE

This is to certify that the dissertation titled "Conservation of Aquatic plants" submitted to Mahatma Gandhi University in partial fulfillment for the award of Degree of Bachelor of Science in Botany is the original work done by Jisnu K Sahadhevan (Reg. No: 190021025055 ) during his final year B. Sc. course in Department of Botany, St. Dominic's college, Kanjirappally, affiliated to Mahatma Gandhi University under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate any University.

Place: Kanjirappally

Date: 18-05-2022

Supervisor Name  
Dr. R. B. SMITHA

Countersigned

Prof. Michael Thomas  
Head, Department of Botany  
St. Dominic's College, Kanjirappally





## CERTIFICATE

This is to certify that the dissertation titled "Conservation of Aquatic plants" submitted to Mahatma Gandhi University in partial fulfillment for the award of Degree of Bachelor of Science in Botany is the original work done by Abhinanth Rajesh (Reg. No: 190021025044 ) during his final year B. Sc. course in Department of Botany, St. Dominic's college, Kanjirappally, affiliated to Mahatma Gandhi University under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate any University.

Place: Kanjirappally

Date: 18-05-2022

Supervisor Name  
Dr. R. B. SMITHA

Countersigned



Prof. Michael Thomas  
Head, Department of Botany  
St. Dominic's College, Kanjirappally



## CERTIFICATE

This is to certify that the dissertation titled "Conservation of Aquatic plants" submitted to Mahatma Gandhi University in partial fulfillment for the award of Degree of Bachelor of Science in Botany is the original work done by Aparna Augustine (Reg. No: 190021025048 ) during his final year B. Sc. course in Department of Botany, St. Dominic's college, Kanjirappally, affiliated to Mahatma Gandhi University under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate any University.

Place: Kanjirappally

Date: 18-05-2022

Supervisor Name  
Dr. R. B. SMITHA

Countersigned

Prof. Michael Thomas  
Head, Department of Botany  
St. Dominic's College, Kanjirappally



POST GRADUATE DEPARTMENT OF BOTANY  
ST. DOMINIC'S COLLEGE  
KANJIRAPPALLY



CERTIFICATE

This is to certify that this project work entitled “Comparative Phytochemistry, GC/MS Analysis and Mosquito Larvicidal Activity on the leaves of *Cananga odorata* (Lam.) Hook and *Polyalthia longifolia* (Sonner.) Thwaites” is an authentic record of the work carried out by Mr. AJAY CYRIAC SEBASTIAN, Reg. No. 200011008920 under my supervision and guidance and no part of this work had been presented for any degree, diploma or any other similar titles of any university.

**Dr. SALLYKUTTY THOMAS**

Assistant Professor

Post Graduate Dept. of Botany

St. Dominic's College, Kanjirappally

Approved by

**Prof. MICHAEL THOMAS**

Head of the Department of Botany

St. Dominic's college, Kanjirappally



Place: Kanjirappally

Date: 28-09-2022



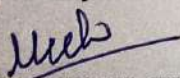
**POST GRADUATE DEPARTMENT OF BOTANY  
ST. DOMINIC'S COLLEGE  
KANJIRAPALLY**



**CERTIFICATE**

This is to certify that the Dissertation entitled "A STUDY ON MEDICINAL PLANTS USED AS REMEDIES FOR GYNAECOLOGICAL DISORDERS BY MANNAN TRIBALS: AN ETHNOBOTANICAL APPROACH" is an authentic record of the research work carried out by Ms. ALONA SIBY, under my supervision and guidance and that no part of it has been presented before for any other degree.

Approved by

  
Prof. MICHAEL THOMAS

Head of the Department of Botany

**Ms. ANITA JOY**

Supervising Lecturer

Post Graduate Department of Botany

Place: Kanjirapally

Date: 28/09/2022





**POST GRADUATE DEPARTMENT OF BOTANY  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that this project work entitled "A PRELIMINARY SURVEY ON BRYOPHYTE AND PTERIDOPHYTE DIVERSITY OF ANCHUKUZHY" is an authentic record of the work carried out by Miss. ANU K V, Reg. No. 200011008922 under my supervision and guidance and that no part of it has been presented before for any other degree.

**Dr. JYOTHI ABRAHAM**

Supervising Lecturer

Post Graduate Department of Botany

Approved by

**Prof. MICHAEL THOMAS**

Head of the Department of Botany

St. Dominic's college, Kanjirappally

Place: Kanjirappally

Date: 28/09/2022



**POST GRADUATE DEPARTMENT OF BOTANY  
ST. DOMINIC'S COLLEGE  
KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that this project work entitled "Pharmacognosy, Phytochemistry and GC-MS Analysis on the leaves of *Clidemia hirta* (L.) D. DON" is an authentic record of the work carried out by Miss. ANUJA RAJAN, Reg. No. 200011008923 under my supervision and guidance and that no part of it has been presented before for any other degree.

*Sallykutty*

**Dr. Sallykutty Thomas**

Assistant Professor

Post Graduate Department of Botany

*Mich*

Approved by

**Prof. MICHAEL THOMAS**

Head of the Department of Botany

St. Dominic's college, Kanjirappally

Place: Kanjirappally

Date:







POST GRADUATE DEPARTMENT OF BOTANY  
ST. DOMINIC COLLEGE  
KANJIRAPPALLY

## Certificate

This is to certify that the project work entitled “**Bioprospecting of *Chondracanthus acicularis* and *Chaetomorpha antennina* As A Potential Bioresource of Nutraceutical Compounds**” is an authentic record of original research work carried out by **Anupama Praveen (200011008924)** under my supervision and guidance and no part of this work has been presented for any degree, diploma or any other similar titles of any University.

Dr. Prasanthkumar S.  
Assistant Professor  
Department of Botany  
St. Dominic's College  
Kanjirappally

Approved by

Prof. Michael Thomas  
Head of the Department  
St. Dominic's College  
Kanjirappally



Place: Kanjirappally

Date: 27/09/2022





# Post Graduate Department of Botany

(DST-FIST sponsored department)

## St. Dominic's College Kanjirapally

Affiliated to Mahatma Gandhi University, Kottayam, NAAC Reaccredited with A Grade  
Parathode P.O, Kottayam district, Kerala - 686512

### CERTIFICATE

This is to certify that the dissertation titled "**Antimicrobial studies on *Sesbania grandiflora* (L) seed extract**" submitted to Mahatma Gandhi University in partial fulfillment for the award of Degree of Master of Science in Botany is the original work done by Aswathy Rajappan (Reg. No: 200011008925) during her final year M. Sc. course in Department of Botany, St. Dominic's college, Kanjirappally, affiliated to Mahatma Gandhi University under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate any University.

Dr. R. B. SMITHA  
(Supervisor)

Place: Kanjirappally

Date: 28/09/2022

Countersigned

Mr. Michael Thomas

Head, Department of Botany

St. Dominic's College, Kanjirappally



POST GRADUATE DEPARTMENT OF BOTANY  
ST. DOMINIC'S COLLEGE  
KANJIRAPPALLY



**CERTIFICATE**

This is to certify that this project work entitled "AIR QUALITY OF KOTTAYAM CITY: A MOSS BASED BIO MONITORING APPROCH" is an authentic record of the work carried out by Ms. DEVALAKSHMI K. S. (Reg. No. 200011008926) under my supervision and guidance and no part of this work had been presented for any degree, diploma or any other similar titles of any university.

Approved by

**Prof. MICHAEL THOMAS**  
H.O.D.  
Department of Botany  
St. Dominic's college  
Kanjirappally, Kottayam

**Dr. R.D. ARUN RAJ**  
Assistant Professor  
Post Graduate Dept. of Botany  
St. Dominic's College, Kanjirappally



Place: Kanjirappally

Date:




POST GRADUATE DEPARTMENT OF BOTANY  
ST. DOMINIC'S COLLEGE KANJIRAPPALLY



CERTIFICATE

This is to certify that the project work entitled WATER QUALITY ANALYSIS AND DERIVATION OF WATER QUALITY OF DIFFERENT WATER BODIES PRESENT IN ST DOMINICS COLLEGE KANJIRAPPALLY " is an authentic record of original research work carried out by GAYATHRI V NAIR (200011008927) under my supervision and guidance and no part of this work has been presented for any degree, diploma or any other similar titles of any University.

  
DR JYOTHI ABRAHAM  
Assistant Professor  
Post Graduate Department of Botany

Approved By

  
PROF. MICHAEL THOMAS

Head of the Department  
St. Dominic's College  
Kanjirappally

Place: Kanjirappally  
Date: 28.09.2022







POST GRADUATE DEPARTMENT OF BOTANY  
DEPARTMENT OF BOTANY  
ST. DOMINIC'S COLLEGE  
KANJIRAPPALLY

## Certificate

This is to certify that the project work entitled "**Bioprospecting of *Ulva* sp. and *Sargassum* sp. as a potential bioresource of bioactive compounds**" is an authentic record of original research work carried out by **JIBIN SABU**(reg No.: **200011008922** under my supervision and guidance and no part of this work has been presented for any degree, diploma or any other similar titles of any University.

Podimattom

Date: 27/09/2022

Prof. Michael Thomas

Head of the Department, St. Dominic's College, Kanjirappally

Dr. Prasanthkumar S

Assistant Professor

Department of Botany

St. Dominic's College

Kanjirappally



POST GRADUATE DEPARTMENT OF BOTANY

ST. DOMINIC'S COLLEGE KANJIRAPALLY

(Affiliated to Mahatma Gandhi University Reaccredited by NAAC with A grade)



CERTIFICATE

This is to certify that project entitled "A PRELIMINARY STUDY ON THE IMPACT OF 1 KM BUFFER ZONE IMPLEMENTATION IN ANGELVALLEY" submitted to Mahatma Gandhi University in partial fulfillment of the requirements for the award of degree of **Master of Science in Botany** is a record of original research work done by **Jinumol PG** during the period 2020-2022 of her study in the Department of Botany, at **St. Dominic's College**, affiliated to Mahatma Gandhi University under my supervision and guidance and the dissertation has not formed the basis of the award of any Degree / Diploma / Associate/ Fellowship or other similar title to any candidate of any university.

Signature of the Guide

Prof. MICHAEL THOMAS

Head of the Department

St. Dominic's College Kanjirappally

Place: Kanjirappally

Date: 28-09-2022



**POST GRADUATE DEPARTMENT OF BOTANY**

**ST DOMINIC'S COLLEGE KANJIRAPPALLY**

*(Affiliated to Mahatma Gandhi University and Reaccredited with A Grade NAAC)*



**CERTIFICATE**

This is to certify that the Project work entitled "A STUDY ON THE IMPACT OF BUFFERZONE IMPLEMENTATION IN KANAMALA- PAMPAVALLEY 11<sup>th</sup> WARD, ERUMELI PANCHAYAT, KOTTAYAM DISTRICT, KERALA" is an authentic record of the research work accomplished by **PRITTY G TOM, Reg.No.200011008930** at St. Dominic's college, Kanjirappally under my supervision and guidance and that no part thereof has been presented earlier for the Award of any other degree or diploma.

Supervised & Approved by

**PROF. MICHAEL THOMAS**

Head of the Post Graduate Department of Botany

Kanjirappally

Date 28/09/2022







# Post Graduate Department of Botany

(DST-FIST sponsored department)

## St. Dominic's College Kanjirappally

Affiliated to Mahatma Gandhi University, Kottayam, NAAC Reaccredited with A Grade  
Parathode P.O, Kottayam district, Kerala - 686512

### CERTIFICATE

This is to certify that the dissertation titled "**Phytochemical screening studies on leaf extract of *Sesbania grandiflora* (L).**" submitted to Mahatma Gandhi University in partial fulfillment for the award of Degree of Master of Science in Botany is the original work done by Rinta Joseph (Reg. No: 200011008931) during her final year M. Sc. course in Department of Botany, St. Dominic's college, Kanjirappally, affiliated to Mahatma Gandhi University under my supervision and guidance and the dissertation has not formed the basis for award of any degree/diploma/associate/fellowship or similar title to any candidate any University.

Dr. R. B. SMITHA  
(Supervisor)

Place: Kanjirappally

Date: 28/9/2022

Countersigned

Mr. Michael Thomas

Head, Department of Botany

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**Search for Self and Community: A Study of Zora Neale Hurston's  
*Their Eyes were Watching God***

Dissertation submitted to Mahatma Gandhi University, Kottayam

In partial fulfillment of the requirements for the award of Degree of  
**Bachelor of Arts in English Language and Literature model II Teaching**

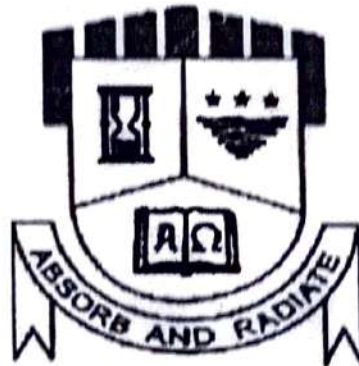
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This is to certify that the dissertation entitled "Search for Self and Community: A Study of Zora Neale Hurston's *Their Eyes Were Watching God*" is a record of bonafide research carried out by Ms. Anna Roy (Reg.no 190021012061) under my supervision and guidance in partial fulfillment of the award of the Degree of Bachelor of Arts in English Language and Literature model II Teaching of Mahatma Gandhi University, Kottayam.



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May 2022



**“Studying Post-colonialism in novel ‘The Kite Runner’”**

Dissertation submitted to Mahatma Gandhi University, Kottayam  
In partial fulfillment of the requirements for the award of Degree of

**Bachelor of Arts in English Language and Literature model II  
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Prof.Aby Johnny



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May 2022

**“Psychoanalytic Journey through the Novel ‘Veronica Decides to Die’”**

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

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**“Studying Caste Discrimination: An Unfolded Story in Movie ‘ASURAN (2019)’”**

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

**Bachelor of Arts in English Language and Literature model II Teaching**

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**“Reading ‘M.S.Dhoni: The Untold Story’ as a Biographical  
Sports Film”**

Dissertation submitted to Mahatma Gandhi University, Kottayam  
In partial fulfillment of the requirements for the award of Degree of  
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May 2022

**“Studying psychoanalysis in Novel ‘The Bell Jar’**

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

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This is to certify that the dissertation entitled “Studying theory name in Novel/ etc. ‘The Bell Jar’” is a record of bonafide research carried out by Anju V C under my supervision and guidance in partial fulfillment of the award of the Degree of Bachelor of Arts in English Language and Literature model II Teaching of Mahatma Gandhi University Kottayam.



Mentor : Megha Mohan Nair

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May 2022

**"Studying subjects such as Honour Killing, Casteism and LGBTQ in the movie 'Paava Kadhaigal' "**

Dissertation submitted to Mahatma Gandhi University Kottayam.

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

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May 2022



**"Studying Magic Realism in Novel 'The Alchemist'"**

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

**Bachelor of Arts in English Language and Literature model II Teaching**

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This is to certify that the dissertation entitled "Magic Realism in novel. 'name of work'" is a record of bonafide research carried out by Soji Rose Saji under my supervision and guidance in partial fulfillment of the award of the Degree of Bachelor of Arts in English Language and Literature model II Teaching of Mahatma Gandhi University, Kottayam.

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May 2022

A Magical Realist Reading of '*Encanto*'

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

**Bachelor of Arts in English Language and Literature model II Teaching**

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This is to certify that the dissertation entitled "A Magical Realist Reading of Encanto" is a record of bona fide research carried out by Aminu Mizaj Noushad under my supervision and guidance in partial fulfillment of the award of the Degree of Bachelor of Arts in English Language and Literature Model II, Teaching of Mahatma Gandhi University, Kottayam.



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This is to certify that the dissertation entitled "A Magical Realist Reading of Encanto" is a record of bona fide research carried out by Aminu Mizaj Noushad under my supervision and guidance in partial fulfillment of the award of the Degree of Bachelor of Arts in English Language and Literature Model II, Teaching of Mahatma Gandhi University, Kottayam.

*Theresa*

Prof. Theresa John

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St. Dominic's College Kanjirappally

May 2022

**A STUDY ON PRACTICE TEACHING**  
**A DISSERTATION SUBMITTED TO THE MAHATMA**  
**GANDHI UNIVERSITY IN PARTIALLY FULFILLMENT**  
**OF THE REQUIREMENT FOR THE AWARD OF THE**  
**DEGREE OF ARTS**

**REVATHY SREERAJ**

**(REG NO: 170021017701)**



**UNDER THE GUIDANCE AND SUPERVISION OF**

**PROF. STEPHY THOMAS**

**DEPARTMENT OF ENGLISH**

**ST. DOMINIC'S COLLEGE, KANJIRAPPALLY**

**MAY 2022**



**ST. DOMINIC'S COLLEGE, KANJIRAPPALLY**

**CERTIFICATE**

*This is to certify that the report, 'A STUDY ON PRACTICE TEACHING' is an authentic record of the work done during the academic year of 2021-2022, by REVATHY SREERAJ*

*(Reg. No: 170021017701), of VT<sup>th</sup> Semester, B. A. English (Model II Vocational), as Teacher of English, St. Dominic's College, Kanjirappally, under our supervision and guidance.*



**Prof. Lekha Francis**

**(Head of the Department)**



**prof. Stephy Thomas**

**(Teacher -in - charge)**

**External Examiner**

**Conducted project evaluation on:**

**Place: Kanjirappally**

**Date**

**"A Postcolonial Reading of Novella  
'Heart of Darkness' "**

*Dissertation submitted to Mahatma Gandhi University, Kottayam In partial fulfilment of the  
requirements for the award of Degree of*

**Bachelor of Arts in English Language and Literature model II Teaching**

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**Department of English**  
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**May 2022**

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This is to certify that the dissertation entitled "A Postcolonial Reading of Novella 'Heart of Darkness' " is a record of bonafide research carried out by Jeena Sam Jacob under my supervision and guidance in partial fulfillment of the award of the Degree of Bachelor of Arts in English Language and Literature model II Teaching of Mahatma Gandhi University, Kottayam.



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**"Studying Queer theory in movie '*Call me by your name*'  
and drama '*The untamed*'**

Dissertation submitted to Mahatma Gandhi University, Kottayam  
In partial fulfillment of the requirements for the award of Degree of  
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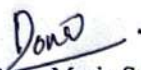
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This is to certify that *the dissertation entitled "Studying Queer theory in movie 'Call me by your name' and drama 'The untamed'"* is a record of bonafide research carried out by Vineetha Baburaj under my supervision and guidance in partial fulfillment of the award of the Degree of Bachelor of Arts in English Language and Literature model II Teaching of Mahatma Gandhi University, Kottayam.

  
Ms. Dona Maria Saju  
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May 2022

**STUDYING BLACK FEMINISM IN THE NOVEL *THE BLUEST EYE***

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

**Bachelor of Arts in English Language and Literature model II Teaching**

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This is to certify that the dissertation entitled Studying Black feminism in novel *The Bluest Eye* is a record of bonafide research carried out by Cilla George under my supervision and guidance in partial fulfilment of the award of the Degree of Bachelor of Arts in English Language and Literature model II Teaching of Mahatma Gandhi University, Kottayam.



Sneha M Josantony

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May 2022

**“ The Familial Bondage: A re- reading of the stereotypical family relations in *Fasting, Feasting* by Anita Desai”**

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

**Bachelor of Arts in English Language and Literature model II**

**Teacher of English in Lower classes**

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This is to certify that the dissertation entitled “The Familial Bondage: A re- reading of the stereotypical family relations in ‘Fasting, Feasting’ by Anita Desai” is a record of bonafide research carried out by Ms. Anitta Augustine (Reg.No. 190021012074) under my supervision and guidance in partial fulfillment of the award of the Degree of Bachelor of Arts in English Language and Literature model II Teacher of English in Lower classes of Mahatma Gandhi University, Kottayam.



Harry C Joseph

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May 2022



**A Psychoanalytic Reading of Emily Bronte's *Wuthering Heights***  
Dissertation submitted to Mahatma Gandhi University Kottayam In  
partial fulfillment of the requirements for the award of Degree of  
**Bachelor of Arts in English Language and Literature model II**

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This is to certify that the dissertation entitled “ A Psychoanalytic Reading of Emily Bronte’s *Wuthering Heights*” is a record of bonafide research carried out by Jeenu Varghese under my supervision and guidance in partial fulfillment of the award of the Degree of Bachelor of Arts in English Language and Literature model II Teaching of Mahatma Gandhi University, Kottayam.

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May 2022

**A Dead End: Reading Kamala Markandaya's 'Nectar in a Sieve'**

**as a Social Realistic Novel**

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

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This is to certify that the dissertation entitled "*Studying* Nectar in a Sieve is a record of bonafide research carried out by Harry C Joseph under my supervision and guidance in partial fulfillment of the award of the Degree of Master of Arts in English Language and Literature of Mahatma Gandhi University, Kottayam.



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August 2022

**Textualizing Women and Nature:**  
**An Ecofeminist Reading of Anita Desai's *Fire on the Mountain***

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

**Bachelor of Arts in English Language and Literature model II Teaching**

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May 2022



**Crisis of Isolation and Identity: A Reading of *Goat Days* as an Existential Novel**

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

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**“Studying Eco-criticism and colonialism in novel ‘Robinson Crusoe’”**

Dissertation submitted to Mahatma Gandhi University, Kottayam

In partial fulfillment of the requirements for the award of Degree of  
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May 2022

**"A Feminist Re-reading of the short story " The Yellow Wallpaper"**

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

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This is to certify that the dissertation entitled "A Feminist Re-reading of the short story "**The Yellow Wallpaper**"

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**“Studying Magical Realism in movies ‘Harry Potter and the Deathly Hallows and Frozen II’”**

Dissertation submitted to Mahatma Gandhi University, Kottayam

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May 2022

**“Studying Caste Discrimination & Caste Politics in the movie “Jai Bhim”**

Dissertation submitted to Mahatma Gandhi University, Kottayam. In partial fulfillment of the requirements for the award of Degree of Bachelor of Arts in English Language and Literature

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Ms.Dona Maria Saju

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May 2022

**GENDER ROLES IN INDIAN HOUSEHOLDS:  
BASED ON THE MALAYALAM MOVIE THE GREAT INDIAN KITCHEN**

Dissertation submitted to Mahatma Gandhi University, Kottayam  
In partial fulfillment of the requirements for the award of Degree of  
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This is to certify that the dissertation entitled "**Gender Roles in Indian Households Based on the Malayalam Movie The Great Indian Kitchen**" is a record of bonafide research carried out by Albin Antony under my supervision and guidance in partial fulfillment of the award of the Degree <sup>of</sup> Bachelor of Arts in English Language and Literature of Mahatma Gandhi University, Kottayam.



Dona Maria Saju

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May 2022



**“An Achilles Heel : A probe into the psychological development of  
an young orphan in Charls Dicken's *Oliver Twist*”**

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

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May 2022

**STUDYING EXISTENTIALISM IN THE NOVEL *THE CALL OF THE WILD***

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

Bachelor of Arts in English Language and Literature model II Teaching

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This is to certify that the dissertation entitled **Studying Existentialism In The Novel *The Call Of The Wild*** is a record of bonafide research carried out by Bibin Abraham under my supervision and guidance in partial fulfillment of the award of the Degree of Bachelor of Arts in English Language and Literature model II Teaching of Mahatma Gandhi University, Kottayam.

*Sneha*

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May 2022

**Prism of Relations: A search into the intricacies of life in The  
Truth About Me: A Hijra Life Story by A Revathi**

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

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**Teaching**

Submitted by

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**May 2022**

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This is to certify that the dissertation entitled "*Prism of Relations: A search into the intricacies of life in The Truth About Me: A Hijra Life Story by A Revathi*" is a record of bonafide research carried out by Al Muhammad Shabin Salim under my supervision and guidance in partial fulfillment of the award of the Degree Bachelor of Arts in English Language and Literature of Mahatma Gandhi University, Kottayam.



Harry C Joseph

Asst.Prof

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St. Dominic's College Kanjirappally

May 2022



***STUDYING ABSURDISM BASED ON THE NOVEL PLAGUE  
RELATED WITH COVID – 19***

Dissertation submitted to Mahatma Gandhi University, Kottayam  
In partial fulfillment of the requirements for the award of Degree of  
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**Teaching**

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May 2022

## Certificate

This is to certify that the dissertation entitled "Studying Absurdism Based on the Novel **Plague related with covid - 19.**" is a record of bonafide research carried out by Martin Thomas under my supervision and guidance in partial fulfillment of the award of the Degree Bachelor of Arts in English Language and Literature of Mahatma Gandhi University, Kottayam.



Sneha M Josantony

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May 2022

**“Studying Post-colonialism in Novel ‘Things fall apart’”**

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

**Bachelor of Arts in English Language and Literature model II Teaching**

Submitted by

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This is to certify that the dissertation entitled "Post-colonialism" "Things Fall Apart" is a record of bonafide research carried out Alcega Siby under my supervision and guidance in partial fulfillment of the award of the Degree of Bachelor of Arts in English Language and Literature model II Teaching of Mahatma Gandhi University, Kottayam.



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# **The Untold Heroines: A Feminist Reading of the Bible**

Dissertation submitted to Mahatma Gandhi University, Kottayam

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6



**"EFFECTIVENESS OF SKILL DEVELOPMENT PROGRAMES  
FOR COLLEGE STUDENTS : A CASE STUDY AMONG THE  
STUDENTS OF ST.DOMINIC'S COLLEGE KANJIRAPPALLY"**

DISSERTATION SUBMITTED TO THE  
MAHATMA GANDHI UNIVERSITY  
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF  
DEGREE IN BACHELORS OF ARTS(ECONOMICS)

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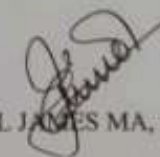
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This is to certify that this dissertation entitled "EFFECTIVENESS OF SKILL DEVELOPMENT PROGRAMES FOR COLLEGE STUDENTS : A CASE STUDY AMONG THE STUDENTS OF ST.DOMINIC'S COLLEGE KANJIRAPPALLY" is a bonafide piece of work done by Athira Kunjumon, Athira Santhosh, Arunkumar PJ and Simple Jose under my supervision and guidance.

  
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**A STUDY ON THE IMPACT OF COVID-19 PANDEMIC ON THE  
MARGINAL FARMING SECTOR OF KERALA WITH SPECIAL  
REFERENCE TO KANJIRAPPALLY GRAMA PANCHAYAT**

**DISSERTATION SUBMITTED TO THE MAHATMA GANDHI  
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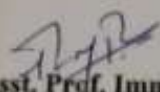
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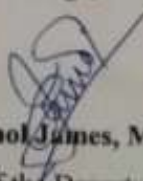


**CERTIFICATE**

This is to certify that this dissertation entitled "A STUDY ON THE IMPACT OF COVID-19 PANDEMIC ON THE MARGINAL FARMING SECTOR OF KERALA" is based on an original project study conducted by Anila Muraly, Nimamol K.V, Nibil Joshy and Robert Babu under my guidance and this has not formed the basis for the any degree/ diploma by this university or other universities.

  
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**“ A STUDY ON THE IMPACT OF  
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**"A STUDY ON SOCIO - ECONOMIC PROFILE OF RUBBER  
TAPPERS IN KANJIRAPPALLY TALUK"**  
DISSERTATION SUBMITTED TO THE MAHATHMA GANDHI  
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This is to certify that dissertation entitled "A STUDY ON SOCIO-ECONOMIC PROFILE OF RUBBER TAPPERS IN KANJIRAPPALLY TALUK" is a bona fide Record of work carried out by **BEDZY BENNY, JESNA JOSEPH, ASHKAR SHAJAHAN, JISMI MOL CHACKO** during the period of 2021-2022 under my guidance and this is not formed the basis of the award of any degree/diploma/Associate/ Fellowship or similar title to any candidates of any university.

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**"A STUDY ON SELF EMPLOYED WOMEN AND  
EMPLOYMENT GENERATION WITH SPECIAL  
REFERENCE TO MUNDAKAYAM PANCHAYAT"**

DISSERTATION SUBMITTED TO THE MAHATMA GANDHI  
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**A STUDY ON THE EFFECTIVENESS OF  
ONLINE LEARNING AMONG COLLEGE  
STUDENTS DURING COVID-19**

A DISSERTATION SUBMITTED TO THE MAHATMA GANDHI  
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**"PREFERENCE FOR FARMING AMONG  
COLLEGE STUDENTS OF PARATHODU GRAMA PANCHAYAT "**

*Dissertation submitted to Mahatma Gandhi University in partial fulfillment of the  
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This is to certify that this dissertation entitled "PREFERENCE FOR FARMING AMONG COLLEGE STUDENTS OF PARATHODU GRAMA PANCHAYAT " is a bonafied record of work carried out by Krishnapriya P J, Jismi Joji, Adharsh Anil and Anjana Kunjumon under my supervision and guidance.

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**“ THE STUDY OF PLASTIC WASTEMANAGEMENT  
IN THE RURAL HOUSEHOLDS OF KANJIRAPPALLY  
GRAMA PANCHAYAT”**

*Dissertation submitted to*

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

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This is to certify that this dissertation entitled "THE STUDY OF PLASTIC WASTE MANAGEMENT IN THE RURAL HOUSEHOLDS OF KANJIRAPPALLY GRAMPANCHAYAT" is bonafied record of work carried out by AMALA MARY ANTONY, MICHAEL THOMAS, AMINA EH, undermy supervision and guidance.

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**“AN ANALYSIS OF HIGHER EDUCATION  
PERSPECTIVES AMONG YOUNGSTERS IN  
PARATHODE PANCHAYAT”**

DISSERTATION SUBMITTED TO THE MAHATMA GANDHI  
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
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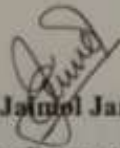


CERTIFICATE

This is to certify that this dissertation entitled "An analysis of higher education perspectives among youngsters in parathode grama Panchayat" is a bonafied record of work carried out by FAMIDHA TR, LINTAMOL PHILIP, and SIJO JOSEPH under my supervision and guidance Prof. Jinu Elizabeth Sebastian M.A M.PHIL. Department of Economics St. Dominic's college , Kanjirappally

  
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**“HEALTH ISSUES IN YOUTH: POST COVID ANALYSIS  
IN KANJIRAPPALLY GRAMA PANCHAYAT”**

*Dissertation submitted to*

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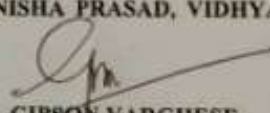
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This is to certify that this dissertation entitled "HEALTH ISSUES IN YOUTH:POST COVID ANALYSIS IN KANJIRAPPALLY GRAMA PANCHAYAT" is bonafide record of work carried out by AMEENA BAHSEER, MANISHA PRASAD, VIDHYA MOL B, AMALU SAJI, under my supervision and guidance.

  
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**AGRICULTURAL PRICE FLUCTUATION AND  
ITS IMPACT ON FARMERS:  
A CASE STUDY OF KANJIRAPPALLY TALUK**

Project Report submitted to Mahatma Gandhi University  
In partial fulfillment of the requirement for the  
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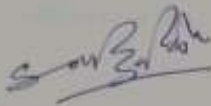
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**A STUDY ON REHABILITATION OF KOOTTICKAL GRAMA  
PANCHAYAT AFTER FLOOD**

Project Report Submitted to Mahatma Gandhi University

In partial fulfillment of the requirement for the

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**“A STUDY ON SOCIO-ECONOMIC CONDITIONS OF DAILY  
WAGE WORKERS BEFORE AND AFTER COVID-19 IN  
KANJIRAPPALLY GRAMA PANCHAYATH”**

DISSERTATION SUBMITTED TO THE MAHATMA GANDHI UNIVERSITY

IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR

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This is to certify that this dissertation entitled "A STUDY ON SOCIO-ECONOMIC CONDITIONS OF DAILY WAGE WORKERS BEFORE AND AFTER COVID-19 IN KANJIRAPPALLY GRAMA PANCHAYATH " is a bonafide record work carried out by BENCY JOSEPH under my supervision and guidance. This has not formed on the basis for the award of any degree/ diploma by this university or other universities.



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August 2022



**AWARENESS ON GOVERNMENT SUPPORT SCHEMES TOWARDS  
WOMEN ENTREPRENEURSHIP- WITH SPECIAL REFERENCE TO KANJIRAPALLY  
GRAMA PANCHAYAT**

**DISSERTATION SUBMITTED TO THE MAHATMA GANDHI UNIVERSITY IN PARTIAL  
FULFILMENT OF THE  
REQUIREMENT FOR THE AWARD OF DEGREE IN MASTER OF ARTS IN  
ECONOMICS**

**BY**

**AMALU SEBASTIAN**

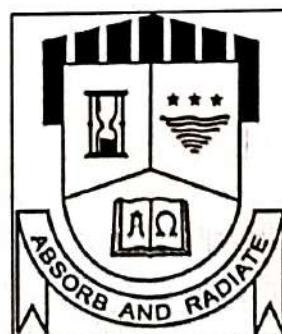
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**A STUDY ON POST COVID IMPACT ON SMALL SCALE  
BUSINESS SHOPS WITH SPECIAL REFERENCE TO  
ERUMELY GRAMA PANCHAYAT**

**DISSERTATION SUBMITTED TO THE MAHATMA GANDHI UNIVERSITY IN  
PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD  
OF DEGREE IN MASTER OF ARTS (ECONOMICS)**

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**A STUDY ON THE IMPACT OF ONLINE LEARNING OF  
STUDENTS OF HIGHER SECONDARY SCHOOLS IN  
MUNDAKAYAM GRAMA PANCHAYATH**

**DISSERTATION SUBMITTED TO THE MAHATMA GANDHI  
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**“A STUDY OF INCOME, CONSUMPTION AND EXPENDITURE PATTERN  
OF LOWER MIDDLE-INCOME HOUSEHOLDS BEFORE AND AFTER  
COVID 19: WITH SPECIAL REFERENCE TO MANIMALA GRAMA  
PANCHAYTH”**

**DISSERTATION SUBMITTED TO THE MAHATMA GANDHI UNIVERSITY  
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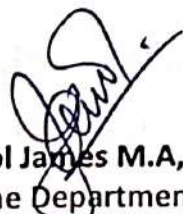


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**A STUDY ON THE IMPACT OF SOCIAL CONTROL AMONG THE  
COLLEGE STUDENTS IN PERUVANTHANAM GRAMA PANCHAYAT**

**DISSERTATION SUBMITTED TO THE MAHATMA GANDHI  
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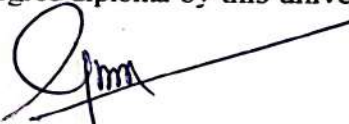


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**A STUDY ON IMPACT OF SOCIAL MEDIA ON  
YOUTH WITH SPECIAL REFERENCE TO  
MUNDAKAYAM GRAMA PANCHAYAT**

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**A STUDY ON HOUSEHOLD HEALTH EXPENDITURE AMONG  
RURAL WOMEN IN KANJIRAPPALLY GRAMA  
PANCHAYATH**

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**“A STUDY ON THE USAGE OF ONLINE PAYMENT  
APP'S AMONG ADULTS WITH SPECIAL REFERENCE  
TO PARATHODU GRAMA PANCHAYTH”**

**DISSERTATION SUBMITTED TO THE  
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**A STUDY ON THE IMPACT OF WORK FROM HOME  
AMONG IT EMPLOYEES IN KERALA DURING COVID  
PANDEMIC**

**DISSERTATION SUBMITTED TO THE MAHATMA GANDHI UNIVERSITY  
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**A STUDY ON THE IMPACT OF COVID 19 ON THE  
RESTAURANT INDUSTRY WITH SPECIAL REFERENCE TO  
KUMILY GRAMA PANCHAYATH”**

**DISSERTATION SUBMITTED TO THE MAHATMA GANDHI  
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# SOCIO-ECONOMIC CONDITIONS OF MANNAN TRIBE IN IDUKKI

A Project submitted to  
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In partial fulfillment of the requirements for the award of degree of  
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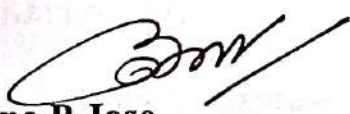
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# **CONTRIBUTIONS OF 'KANAVU' AS AN ALTERNATIVE EDUCATION SYSTEM IN WAYANAD**

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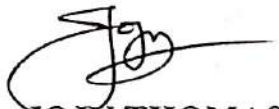
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# **A HISTORICAL ANALYSIS OF MARRIAGE CUSTOMS AND PRACTICES IN SYRO – MALABAR CHURCH**

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# **MAN VS WILD: A CASE STUDY OF KORUTHODU**

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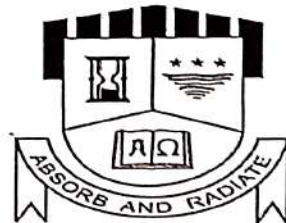
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**THE MIGRANTS OF CHITTADY ESTATE :A  
RETROSPECTIVE STUDY**

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**A HISTORICAL STUDY OF JAIN TRADITION IN WAYANAD  
WITH SPECIAL REFERENCE TO BATHERY TEMPLE**

A Project submitted to

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

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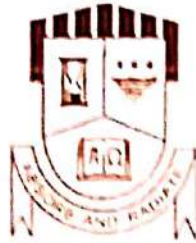


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# **MYSTERY OF VENNIMALA**

**A project submitted to  
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in partial fulfilment of the requirements of the award of degree of  
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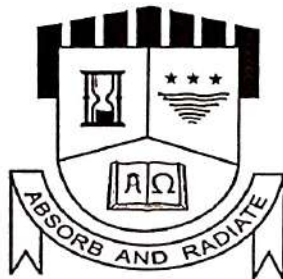
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# **EXPLORING ROWTHER TRADITION AND CULTURE: A CASE STUDY OF PARATHODE**

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# **EXPLORING ROWTHER TRADITION AND CULTURE: A CASE STUDY OF PARATHODE**

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In partial fulfillment of the requirements for the award of degree of  
Bachelor of Arts in History



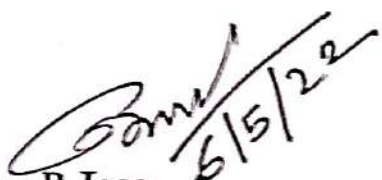
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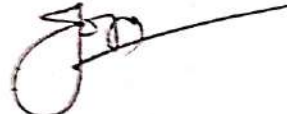
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# TRADITIONS AND CUSTOMS OF KOPPARA DEVI TEMPLE

A Project submitted to the Mahatma Gandhi University, Kottayam  
in partial fulfillment of the requirements for the award of degree of  
**BACHELOR OF ARTS IN HISTORY**



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# MYSTERY OF VENNIMALA

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# **A HISTORICAL ANALYSIS OF MARRIAGE CUSTOMS AND PRACTICES IN SYRO – MALABAR CHURCH**

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# **MAN VS WILD: A CASE STUDY OF KORUTHODU**

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# CONTRIBUTIONS OF 'KANAVU' AS AN ALTERNATIVE EDUCATION SYSTEM IN WAYANAD

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# **A HISTORICAL STUDY OF JAIN TRADITION IN WAYANAD WITH SPECIAL REFERENCE TO BATHERY TEMPLE**

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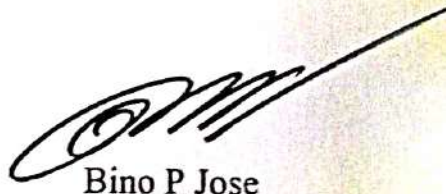
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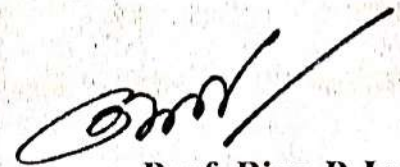
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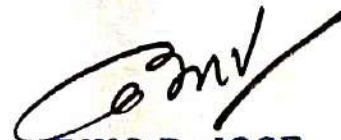
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# EUROPEAN INTERVENTIONS IN WESTERN GHATS: THE CASE OF PALLIKKUNNU

A Project submitted to the Mahatma Gandhi University, Kottayam in partial  
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# **MAN VS WILD: A CASE STUDY OF KORUTHODU**

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**THE MIGRANTS OF CHITTADY ESTATE :A  
RETROSPECTIVE STUDY**

A Project submitted to  
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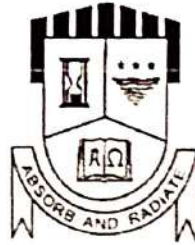
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# **MYSTERY OF VENNIMALA**

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# **SOCIO-ECONOMIC CONDITIONS OF MANNAN TRIBE IN IDUKKI**

A Project submitted to  
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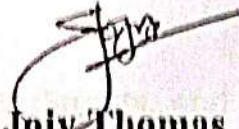
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# TRADITIONS AND CUSTOMS OF KOPPARA DEVI TEMPLE

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# **A HISTORICAL STUDY OF JAIN TRADITION IN WAYANAD WITH SPECIAL REFERENCE TO BATHERY TEMPLE**

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# **EUROPEAN INTERVENTIONS IN WESTERN GHATS: THE CASE OF PALLIKKUNNU**

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**Dr Jojy Thomas**

**May 2022**



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## CERTIFICATE

This is to certify that this project titled "TRADITIONS AND CUSTOMS OF KOPPARA DEVI TEMPLE" is a report of work done by **SONA TREESA JOSHY** for the award of degree bachelor of arts in History under graduate department of History, St Dominic's College Kanjirappally during the stipulated period under the regulation in force and this project embodies the bona fide record of the work done by her under my guidance.

Dr. Jojy Thomas  
Assistant Professor,  
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Counter signed by

Prof. Bino P Jose  
Head, Department of History.



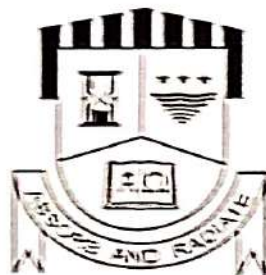
# CONTRIBUTIONS OF 'KANAVU' AS AN ALTERNATIVE EDUCATION SYSTEM IN WAYANAD

A Project submitted to

Mahatma Gandhi University, Kottayam

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

**BACHELOR OF ARTS IN HISTORY**



Submitted by

**SAVIO N SABU**

190021096666

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Under the guidance of

**Dr. JOJY THOMAS**

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**MAY 2022**



**DEPARTMENT OF HISTORY**

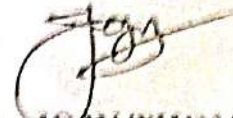
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**CERTIFICATE**

This is to certify that this dissertation titled "**CONTRIBUTIONS OF 'KANAVU' AS AN ALTERNATIVE EDUCATION SYSTEM IN WAYANAD**"

is a report of work done by **SAVION BABU** for the award of degree Bachelor of Arts in History in the under graduate department of History, St. Dominic's College, Kanjirappally during the stipulated period under the regulations enforced and this project embodies the bonafide record of the work done by her under my guidance.



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17/05/2022



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# TRADITIONS AND CUSTOMS OF KOPPARA DEVI TEMPLE

A Project submitted to the Mahatma Gandhi University, Kottayam  
in partial fulfillment of the requirements for the award of degree of  
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Dr. Jojoy Thomas  
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# TRADITIONS AND CUSTOMS OF KOPPARA DEVI TEMPLE

A Project submitted to the Mahatma Gandhi University, Kottayam  
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# **EUROPEAN INTERVENTIONS IN WESTERN GHATS: THE CASE OF PALLIKKUNNU**

**A Project submitted to the Mahatma Gandhi University, Kottayam in partial  
fulfillment of the requirements for the award of degree of  
BACHELOR OF ARTS IN HISTORY**



Submitted by  
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# EXPLORING ROWTHER TRADITION AND CULTURE: A CASE STUDY OF PARATHODE

A Project submitted to  
The Mahatma Gandhi University, Kottayam  
In partial fulfillment of the requirements for the award of degree of  
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Submitted by  
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Under the guidance of  
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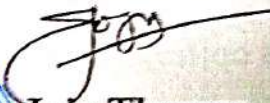


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# **SOCIO-ECONOMIC CONDITIONS OF MANNAN TRIBE IN IDUKKI**

A Project submitted to  
The Mahatma Gandhi University, Kottayam  
In partial fulfillment of the requirements for the award of degree of  
Bachelor of Arts in History



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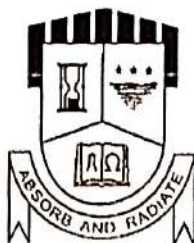


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# **MYSTERY OF VENNIMALA**

**A project submitted to  
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# **SOCIO-ECONOMIC CONDITIONS OF MANNAN TRIBE IN IDUKKI**

A Project submitted to  
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In partial fulfillment of the requirements for the award of degree of  
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# **THE MIGRANTS OF CHITTADY ESTATE :A RETROSPECTIVE STUDY**

A Project submitted to

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

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Submitted by

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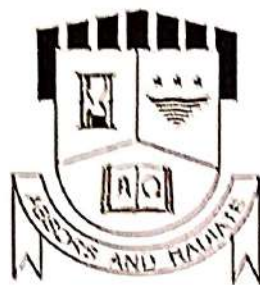
**A HISTORICAL STUDY OF JAIN TRADITION IN WAYANAD  
WITH SPECIAL REFERENCE TO BATHERY TEMPLE**

A Project submitted to

Mahatma Gandhi University, Kottayam

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

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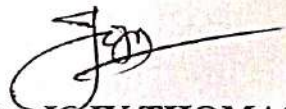
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07/05/2022



**BINO P. JOSE**  
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# **MAN VS WILD: A CASE STUDY OF KORUTHODU**

A project submitted to  
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In partial fulfillment of the requirements of the award of degree of  
**BACHELOR OF ARTS IN HISTORY**

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**MARIYA MATHEW**  
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**May 2022**



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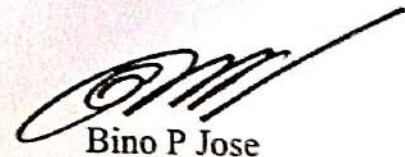
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Kanjirappally

06/05/2022



Bino P Jose





# **THE MIGRANTS OF CHITTADY ESTATE :A RETROSPECTIVE STUDY**

A Project submitted to  
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In partial fulfillment of the requirements for the award of degree of  
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This is to certify that this dissertation title "THE MIGRANTS OF CHITTADY  
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is a report of work done by MARIA TOM for the award of degree Bachelor of Arts  
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Kanjirappally during the stipulated period under the regulations enforced and this  
project embodies the bonafide record of the work done by her under my guidance.



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**A HISTORICAL STUDY OF JAIN TRADITION IN WAYANAD  
WITH SPECIAL REFERENCE TO BATHERY TEMPLE**

A Project submitted to

Mahatma Gandhi University, Kottayam

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

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Submitted by

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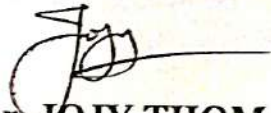
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**CERTIFICATE**

This is to certify that the project entitled “**EFFECT OF BRAND IMAGE ON CONSUMER TASTE AND PREFERENCE OF HUL & ITC**” is a bonfide piece of research work done by **ABHIJA M.K** (Reg.NO.190021067711) **ADITHYA RAJ** (Reg.No.190021067712) and **SWATHY SABU** (Reg.No.190021067727) under my supervision and guidance submitted to Mahatma Gandhi university in partial fulfilment of the requirements for the award of the degree of bachelor of commerce and no part of the project has been submitted elsewhere the award of any degree or diploma.

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Place: Kanjirappally

Date: 31/3/2022



Research and Post Graduate Dept.of Commerce  
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## CERTIFICATE

This is to certify that the Project Work entitled "A Study On The Effectiveness Of Implementation Of Virtual Reality In Education" is a bonafide piece of research work carried out by **Farsana Parveen A, Linta Abraham** during the academic year 2021-2022 for the partial fulfillment for the award of degree of bachelor of commerce from Mahatma Gandhi University, Kottayam.

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**Prof ANOOP TOM THOMAS**  
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Place: Kanjirappally

Date: 31/3/2022





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This is to certify that the dissertation entitled "*A STUDY ON HEALTH INSURANCE DURING COVID PANDEMIC WITH SPECIAL REFERENCE TO KOTTAYAM DISTRICT*" is a bonafide piece of research work done by *AJIN KAVALACKAL (Reg. No: 190021067676)* *MAISMI GEORGE (Reg. No: 190021067699)*, *SHIFANAMOL K S (Reg. No:190021067723)* under my supervision and guidance and submitted to Mahatma Gandhi university in partial fulfillment of the requirements for the award of the degree of bachelor of commerce and no part of the project has been submitted elsewhere for the award of any degree or diploma.

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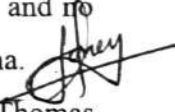


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This is to certify that the project entitled "**DIGITAL MARKETING INFLUENCE AMONG CUSTOMERS IN KANJIRAPALLY TALUK**" is a bonafide piece of research work done by SONA JAYAN (Reg. No. 190021067724), APSARA AJIKUMAR (Reg.No.190021067685) and ATHUL MATHEW ABRAHAM(Reg. No190021067689) under my supervision and guidance and submitted to Mahatma Gandhi university in partial fulfilment of the requirements for the award of the degree of bachelor of commerce and no part of the project has been submitted elsewhere for the award of any degree or diploma.

  
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Prof. Anoop Tom Thomas

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This is to certify that the dissertation entitled "**USAGE OF ONLINE BANKING AMONG COMMON PEOPLE WITH SPECIAL REFERENCE TO KANJIRAPPALLY TALUK**" is a bonafide piece of research work done by **JINATMOL SAJI, MARITTA REJI** and **MEGHNA REJI JACOB** under my supervision and guidance and submitted to Mahatma Gandhi university in partial fulfillment of the requirements for the award of the degree of bachelor of commerce and no part of the project has been submitted elsewhere for the award of any degree or diploma.

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Kanjirappally

31/3/2022




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**CERTIFICATE**

This is to certify that the dissertation entitled “A STUDY ON 5G SMARTPHONES AMONG COLLEGE STUDENTS IN KANJIRAPPALLY TALUK” is a bonafide record of work carried out by DORIYA ROSE BINNY (Reg no. 190021067692), ANUSREE M.R (Reg no. 190021067684) and SOJU THOMAS (Reg no. 190021067709) under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of Bachelor of commerce from mahatma Gandhi University, Kottayam.

Countersigned by,   
Prof. ANOOP TOM THOMAS  
Head of research and postgraduate  
Department of commerce  
St Dominic's College Kanjirappally

  
Prof. JOSEPH VINEETH JOY  
Assistant Professor, Research  
and Postgraduate Department of  
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31/3/2022






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This is to certify that the Project entitled “ **INFLUENCE OF SOCIAL MEDIA MARKETING ON CONSUMER PURCHASE BEHAVIOUR**” is a bonafide record of work carried out by **ALEENA THERESE SIBY** (Reg No 190021067677), **BONEY ANTONY MATHEW** (Reg No 190021067691 ), **SANDRA EBY** (Reg No 190021067705 ), under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfillment of the requirements for the award of the Degree of Bachelor of commerce from mahatma Gandhi University, Kottayam.

  
**Prof. Deepa Tes George**  
Assistant Professor  
Research and Post Graduate  
Department of Commerce  
St Dominic's college ,kanjirappally

Counter signed by,



**Prof. ANOOP TOM THOMAS**  
Head of research and post graduate  
Department of commerce  
St Dominic's College Kanjirappally




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**CERTIFICATE**

This is to certify that the dissertation entitled **“EFFECTIVENESS OF ONLINE BUSINESS AMONG WOMEN”** is a bona fide piece of research work done by **ADITHYAN P RAJEEV, ANN MARIYA SABU and AISWARYA ROY** under my supervision and guidance and submitted to Mahatma Gandhi university in partial fulfillment of the requirements for the award of the degree of bachelor of commerce and no part of the project has been submitted elsewhere for the award of any degree or diploma.

  
Prof. DEEPA TES GEORGE  
Assistant Professor  
Research and P.G Department Of  
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St. Dominic's College Kanjirappally

Countersigned by



Prof. Anoop Tom Thomas, M.Com.

Head of the Department

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kanjirappally

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CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON PROBLEMS OF RETAILERS DURING COVID PANDEMIC WITH SPECIAL REFERENCE TO KANJIRAPPALLY TALUK" is a bonafide piece of research work done by AISWARYA RAJESH, ALEENA ELSA THOMAS, and ASWIN K S under my supervision and guidance and submitted to Mahatma Gandhi university in partial fulfillment of the requirements for the award of the degree of bachelor of commerce and no part of the project has been submitted elsewhere for the award of any degree or diploma.

  
Prof. JOICEY JOSE

Assistant Professor

Research and P.G Department Of  
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Kanjirappally

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Prof. Anoop Tom Thomas

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This is to certify that the project entitled "STARTUP COMPANIES LIFECYCLE AND CHALLENGES" is a bonafide piece of research work carried out by Alen Jacob, Arshina Nasar, and Sandra Sabu under my supervision and guidance and submitted to St. Dominic's College, Kanjirappally in partial fulfillment of the requirements for the award of the Degree of Commerce.



Prof. Sebin Sebastian

Assistant Professor

Research & Post Graduate Department Of Commerce

St. Dominic's College, Kanjirappally

Countersigned By;



Prof. Anoop Tom Thomas

Head Of the Department of Commerce

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Kanjirappally

31 March 2022



COMMERCE  
ST. DOMINICS COLLEGE, KANJIRAPPALLY



**Certificate**

This is to verify that the project entitled **“A STUDY ON THE IMPACT OF THE HIKE IN GST RATES ON CONSUMERS BUYING BRANDED PRODUCTS WITH SPECIAL PEFERENCE TO COLLEGE STUDENTS OF KOTTAYAM DISTRICT”** is a bonafide piece of research work done by NIRANJAN S (Reg. No. 190021067703), SREEDEVI CR (Reg. No. 190021067725) and ARUNIMA ANIL (Reg. No. 190021067687) under my supervision and guidance and submitted to Mahatma Gandhi university in partial fulfillment of the requirements for the award of the degree of bachelor of commerce and no part of the project has been submitted elsewhere for the award of any degree or diploma

  
Prof. Sebin Sebastian

Assistant Professor

Research and postgraduate Department of Commerce

St. Dominics College, Kanjirappally

Countersigned by,



Prof. Anoop Tom Thomas

Head of the Department of commerce

St. Dominics College Kanjirappally

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2



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**CERTIFICATE**

This is to certify that the dissertation entitled "**PERCEPTION AND PREFERENCE TOWARDS ELECTRIC VEHICLES WITH SPECIAL REFERENCE TO THE CUSTOMERS IN KOTTAYAM DISTRICT**" is a bonafide record of work carried out by **AMINA T.S(Reg no.190021067715)**, **MUNASSIRA THAQUIDEEN(Reg no. 190021067720)** and **THOMAS TOMY(Reg no.190021067728)** under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfillment of the requirements for the award of the Degree of Bachelor of commerce from mahatma Gandhi University, Kottayam

  
**Prof. ABYSON KURIAN**

Assistant Professor

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This is to certify that the dissertation entitled "A STUDY ON THE AWARENESS ABOUT GOVERNMENT SCHOLARSHIPS AMONG COLLEGE STUDENTS" is a bonafide record of work carried out by ANS FRANCIS (Reg no. 190021067682), JINTO TOM PAUL (Reg no. 190021067696) and NIMISHA RAJU (Reg no. 190021067721) under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfillment of the requirements for the award of the Degree of Bachelor of commerce from mahatma Gandhi University, Kottayam

**Prof. ABYSON KURIAN**

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31/3/2022

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COMMERCE ST. DOMINIC'S COLLEGE, KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that the project entitled "A STUDY ON SHARE MARKET PARTICIPATION AMONG STUDENTS OF FINANCE AND SCIENCE DEGREE" is a bonafide piece of research work done by **PARVATHY UNNIKRISHNAN (Reg.No.190021067704)**, **SARA ANNA JOSEPH (Reg.No.190021067706)** and **SIVAJA MANAMPALLY (Reg.No.190021067707)** under my supervision and guidance submitted to Mahatma Gandhi university in partial fulfilment of the requirements for the award of the Degree of Bachelor of Commerce and no part of the project has been submitted elsewhere for the award of any degree or diploma.

**Prof. ABYSON KURIAN**

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Kanjirappally

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Head of Research and Post Graduate  
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31/3/2022



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**CERTIFICATE**

This is to certify that the dissertation entitled **“CONSUMER PREFERENCE AND PERCEPTION TOWARDS OTT PLATFORMS”** is a bonafide record of work carried out by **ANEETA ABRAHAM (Reg no. 190021067680), FEBIN MATHEW (Reg no. 190021067694) and MERRY ANN SEBY (Reg no. 190021067719)** under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfillment of the requirements for the award of the Degree of Bachelor of commerce from mahatma Gandhi University, Kottayam

**Prof. RESHMI TOM**

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CERTIFICATE

This is to certify that the dissertation entitled "CONSUMER PREFERENCE AND PERCEPTION TOWARDS OTT PLATFORMS," is a bonafide record of work carried out by ANEETA ABRAHAM (Reg no. 190021067680), FEBIN MATHEW (Reg no. 190021067694) and MERRY ANN SEBY (Reg no. 190021067719) under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfillment of the requirements for the award of the Degree of Bachelor of commerce from mahatma Gandhi University, Kottayam

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31/3/2022

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**CERTIFICATE**

This is to certify that the dissertation entitled "A STUDY ON UNIFIED PAYMENT INTERFACE SYSTEM WITH SPECIAL REFERENCE TO KANJIRAPPALLY TALUK" is a bonafide record of work carried out by ANUJITH K SURESH (Reg no. 190021067683), BEO ANIT MATHEW (Reg no. 190021067690) and SREELAKSHMI S (Reg no. 190021067726) under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of Bachelor of commerce from mahatma Gandhi University, Kottayam

Prof. Joseph Vineeth Joy  
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Countersigned by,  
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31/3/2022

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CERTIFICATE

This is to certify that the dissertation entitled "**AWARENESS AND ASSESSMENT OF FACTORS DETERMINING ACCEPTANCE OF E-LEARNING COURSES AMONG COLLEGE STUDENTS**" is a bonafide record work carried out by **AMAL VARGHESE (Reg. No. 200011025360)** under my supervision and guidance and submitted to Mahatma Gandhi university in partial fulfilment of the requirements for the award of the Degree of **MASTER OF COMMERCE**.

Prof. ANOOP TOM THOMAS

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**CERTIFICATE**

This is to certify that the dissertation entitled “**EMPOWERING RURAL WOMEN THROUGH SMALL FINANCE BANKS WITH SPECIAL REFERENCE TO PALA MUNICIPALITY**” is a bonafide record of work carried out by **ANITHA PRASAD (Reg No.200011025361)** under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of **MASTER OF COMMERCE**.

Countersigned by

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**CERTIFICATE**

This is to certify that the dissertation entitled **INFLUENCE OF INSTAGRAM ON BUYING HABIT AMONG COLLEGE STUDENTS**, is a bonafide record of work carried out by **ANITT MARIA JOSEPH (Regno.200011025362)** under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of **MASTER OF COMMERCE**.

A handwritten signature in blue ink, appearing to read 'Honey Thomas', written over a horizontal line.

**Dr. HONEY THOMAS**

Assistant Professor

Research and PG Department of Commerce

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Countersigned by,

A handwritten signature in blue ink, appearing to read 'Anoop Tom Thomas', written over a horizontal line.

**Prof Anoop Tom Thomas**

Head of the Department of Commerce

St. Dominic's College, Kanjirappally

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This is to certify that the dissertation entitled “**SETBACK AND PROSPECTS OF CRYPTOCURRENCY AS AN INVESTMENT**” is a Bonafide record of work carried out by **DEVIKA PAVITHRAN**(Reg. No. 200011025365) under my supervision and guidance and submitted to Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of **MASTER OF COMMERCE**.

Countersigned by,

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Assistant Professor

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This is to certify that the dissertation entitled "**ONLINE ADVERTISEMENT OF MOBILEPHONES AMONG CUSTOMERS WITH SPECIAL REFERENCE TO KANJIRAPPALLY MUNICIPALITY**" is a bonafiderecord of work carried out by **ELIZABETH MARIA PAUL (Regno.200011025366)** under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of **MASTERS OF COMMERCE**.

Countersigned by

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**Prof. JOSEPH VINEETH JOY**

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**CERTIFICATE**

This is to certify that the dissertation entitled "AVAILABILITY AND USAGE OF AGRICULTURAL FINANCE AMONG SMALL FARMERS IN KANJIRAPPALLY TALUK" is a bonafide record of work carried out by **FATHIMA FARHANA (Regno. 200011025367 )** under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of **MASTER OF COMMERCE**.

Countersigned by

**Prof. ANOOP TOM THOMAS**

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**Prof. ABYSON KURIAN**

Assistant Professor

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This is to certify that the dissertation entitled “**EFFECTIVNESS OF ONLINE MARKETING STRATEGIES OF MYNTRA**” is a bonafide record of work carried out by **GOODWIN JAMES (Reg No.20011025369)** under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of **MASTER OF COMMERCE**.

Countersigned by

**Prof. ANOOP TOM THOMAS**

Head of the Department

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**Prof. JOICEY JOSE**

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**CERTIFICATE**

This is to certify that the dissertation entitled “A STUDY ON THE USAGE AND AWARENESS OF CUSTOMERS TOWARDS POST OFFICE FINANCIAL SERVICES WITH SPECIAL REFERENCE TO MUNDAKKAYAM PANCHAYAT” is a bonafide record of work carried out by **KARTHIKA MOHAN (Regno.200011025370)** under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of **MASTER OF COMMERCE**.

Countersigned by

**Prof. ANOOP TOM THOMAS**

Head of the Department

Research and P.G Department of Commerce

St. Dominic's College Kanjirappally

**Dr. HONEY THOMAS**

Assistant Professor

Research and P.G

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St. Dominic's College kanjirappally

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**RESEARCH AND POSTGRADUATE DEPARTMENT OF**  
**COMMERCE**



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This is to certify that this project report titled “OTT VIEWERSHIP DURING COVID 19 PERIOD AND ITS FUTURE SCOPE WITH REFERENCE TO KOTTAYAM DISTRICT” is a bonafide work of Ms. MARIYA VARGHESE (Reg. NO.200011025371) and is completed under my supervision and guidance in partial fulfilment of the requirements for the requirements for the award of the degree of Master of Commerce in Mahatma Gandhi University, Kottayam. She is permitted to submit the dissertation.

Countersigned by:

**Prof. ANOOP TOM THOMAS**

Head of the Department of Commerce

St. Dominic's college Kanjirappally

Place: Kanjirappally

**Prof. RESHMI TOM**

Assistant professor

**ST. DOMINIC'S COLLEGE KANJIRAPPALLY**

(Affiliated to Mahatma Gandhi University, Kottayam)

**RESEARCH AND POSTGRADUATE DEPARTMENT OF COMMERCE**



**CERTIFICATE**

This is to certify that the dissertation entitled "**ROLE OF EMPLOYEE GRIEVANCE REDRESSAL SYSTEM IN BANKS WITH SPECIAL REFERENCE TO STATE BANK OF INDIA, KOTTAYAM DISTRICT**" is a bonafide record of work carried out by **DEEPA TES GEORGE (Reg No.200011025372)** under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of **MASTER OF COMMERCE**.

Countersigned by

**Prof. ANOOP TOM THOMAS**

Head of the Department

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St. Dominic's College Kanjirappally

  
**Prof. DEEPA TES GEORGE**

Assistant Professor

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(Affiliated to Mahatma Gandhi University, Kottayam)

**RESEARCH AND POSTGRADUATE DEPARTMENT OF COMMERCE**



**CERTIFICATE**

This is to certify that the dissertation entitled “**NON-BANKING SERVICES PROVIDED BY BANKS AND ITS USAGE AMONG BANKING CUSTOMERS KANJIRAPPALLY TALUK**” is a bonafide record of work carried out by **SONY MARIA JAMES (Regno.200011025374)** under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of **MASTER OF COMMERCE**.

Countersigned by

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Head of the Department

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**Prof. ABYSON KURIAN**

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This is to certify that the dissertation entitled “A COMPARATIVE STUDY ON PERCEPTION TOWARDS DEBT AMONG EDUCATION LOAN BORROWERS AND NON BORROWERS” is a bonafide record of work carried out by SONAMOL THOMAS (Regno.200011025373 ) under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of MASTER OF COMMERCE.

Countersigned by

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St. Dominic's College Kanjirappally

**Prof. ABYSON KURIAN**  
Assistant Professor  
Research and Post Graduate  
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**CERTIFICATE**

This is to certify that the dissertation entitled “**CONSUMER PERCEPTION TOWARDS MOBILE WALLETS AMONG COLLEGE STUDENTS**” is a bonafide record of work carried out by **SURYA SUKUMARAN (Regno.200011025375)** under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of **MASTER OF COMMERCE**.

Countersigned by

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Head of the Department

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**Prof. ANOOP TOM THOMAS**

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### CERTIFICATE

This is to certify that the dissertation entitled “**CUSTOMER PERCEPTION AND USAGE OF FOOD DELIVERY APPLICATIONS DURING COVID – 19 PERIOD**” is a bonafide record of work carried out by **AHANA HARI (Regno.200011025359)** under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of **MASTER OF COMMERCE**.

Countersigned by

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Head of the Department

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St. Dominic's College Kanjirappally

**Prof. RESHMI TOM**

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**RESEARCH AND POSTGRADUATE DEPARTMENT OF  
COMMERCE**



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This is to certify that the dissertation entitled “A STUDY ON THE INFLUENCE OF ADVERTISEMENT ON THE PURCHASE OF HERBAL COSMETIC PRODUCTS WITH SPECIAL REFERENCE TO KANJIRAPPALLY TALUK” is a bona fide record of work carried out by **BISMI SHANAVAS (Regno.200011025364)** under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of **MASTERS OF COMMERCE**.

Countersigned by

**Prof. ANOOP TOM THOMAS**

Head of the Department

Research and P.G Department of Commerce

St. Dominic's College Kanjirappally

**Prof. JOSEPH VINEETH JOY**

Assistant Professor

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**RESEARCH AND POSTGRADUATE DEPARTMENT OF  
COMMERCE**

**ST. DOMINIC'S COLLEGE, KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that the project entitled "**THE EFFECTIVENESS OF ONLINE BUSINESS AMONG WOMEN**" is a Bonafede piece of research work done by **GAYATHRY LAKSHMI T.S (Reg. No. 200011025368)** under my supervision and guidance and submitted to Mahatma Gandhi University in partial fulfilment of the requirements for the award of the degree of Master of commerce and no part of the project has been submitted elsewhere for the award of any degree or diploma.

**Prof. Sebin Sebastian**

Assistant Professor

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St. Dominic's College, Kanjirappally

Countersigned by,

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Head of the Department of Commerce

St. Dominic's College, Kanjirappally



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**CERTIFICATE**

This is to certify that the dissertation entitled "TO STUDY THE INFLUENCE OF DIGITAL MARKETING TOWARDS THE BUYING BEHAVIOUR OF YOUNGSTERS, WITH SPECIAL REFERENCE KANJIRAPPALLY TALUK" is a bonafide record of work carried out by ASWANI RAJAN (Regno.200011025363) under my supervision and guidance and submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of the Degree of MASTER OF COMMERCE.

Countersigned by

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St.Dominic's College Kanjirappally

**Prof. SEBIN SEBASTIAN**

Assistant Professor

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**DEPARTMENT OF VOCATIONAL COMMERCE**

**ST.DOMINIC'S COLLEGE, KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that project work entitled "PERCEPTION OF PUBLIC TOWARDS HOME DELIVERY SERVICES WITH SPECIAL REFERENCE TO KOTTAYAM DISTRICT" is a bonafide piece of work done by **GEETHU SAMBASIVAN, ASIYA SHERIF, JIBIN SEBASTIAN** under my supervision and guidance and submitted to Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

*Jessy*

**Ms. JESSYMOL JOSE**

Project Guide

B.Com Computer Application

Department of Vocational Commerce

St. Dominic's College, Kanjirappally

**Ms. MANJUSHA S.G**

Head of the Department

B.Com Computer Application

St. Dominic's College, Kanjirappally

Viva voce examination held on 16.05.2022.....

Vani.....

Internal examiner

Place: Kanjirappally

Date:

.....  
External examiner



DEPARTMENT OF VOCATIONAL COMMERCE

ST DOMINIC'S COLLEGE, KANJIRAPPALLY



CERTIFICATE

*This is to certify that the project work entitled "A STUDY ON CONSUMER PREFERENCE TOWARDS OVER THE TOP (OTT) PLATFORMS WITH SPECIAL REFERENCE TO KANJIRAPPALLY TALUK" is a Bonafide piece of work done by JAIMON JAMES (Reg. No. 190021053277), ROBIN JOSEPH (Reg. No. 190021053252), VISHNUPRIYA M (Reg. No: 190021053243) completed under my supervision to partial fulfilment of the requirements for the award of the Degree of Bachelor of Commerce in Mahatma Gandhi University, Kottayam. They are permitted to submit the report.*

**Ms. MANJUSHA S G**

Head of the Department

Department of Vocational Commerce

St. Dominic's College

Kanjirappally

**Ms. JISHA MARY JAMES**

Project Guide

Department of Vocational Commerce

St. Dominic's College

Kanjirappally

Viva voice examination held on...16-05-2022

.....

**Internal Examiner**

Place: Kanjirappally

Date: / / 2022



.....

**External examiner**



**DEPARTMENT OF VOCATIONAL COMMERCE**

**ST.DOMINIC'S COLLEGE, KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that project work entitled " A STUDY ON INFLUENCE OF UPI AMONG PUBLIC TOWARDS KANJIRAPPALLY THALUK" is a bonafide piece of work done by **MEBIL MARIA JOBY, MUKIL CHANDRAN, TOM K THOMAS** under my supervision and guidance and submitted to Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

**Mrs.MANJUSHA S.G**

Head of the Department

St.Dominic's College

Kanjirappally Kanjirappally

**Mrs.REEMA ABRAHAM**

Project Guide

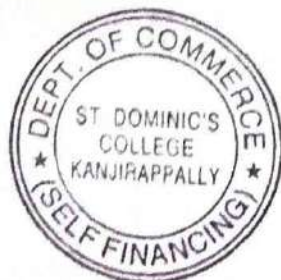
St.Dominic's College

Viva voce examination held on 16.05.2022.....

Internal examiner

Place: Kanjirappally

Date : 16/05/22



External examiner

DEPARTMENT OF VOCATIONAL COMMERCE

ST.DOMINIC'S COLLEGE, KANJIRAPPALLY



CERTIFICATE

This is to certify that project work entitled “ A study on attitude of women towards entrepreneurship with special reference to Kottayam District” is a bonafide piece of work done by JOMIT BOBBY (Reg. No.190021053229), LEKSHMI SABU (Reg. No.190021053231), MUHAMMED IBIN AZEEM (Reg. No. 190021053236) under my supervision and guidance and submitted to Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

MRS. MANJUSHA S.G

Head of the department

St. Dominic's College

Kanjirappally

Viva voce examination held on ..16/05/2022.....

.....

Internal examiner

Place: Kanjirappally

Date 16/05/22



MRS. RIYA JAMES

Project guide

St. Dominic's College

Kanjirappally

.....

External examiner

**DEPARTMENT OF VOCATIONAL COMMERCE**

**ST.DOMINIC'S COLLEGE, KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that project work entitled "A STUDY ON CUSTOMER SATISFACTION TOWARDS RELIANCE JIO NETWORK WITH SPECIAL REFERENCE TO KANJIRAPPALLY TALUK" is a bonafide piece of work done by ANAGHA MOL K S, MUHAMMED SHAMMAS A.N, RIZWAN M ISMAIL under my supervision and guidance and submitted to Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

**Ms. MANJUSHA S.G**

Head of the Department

St.Dominic's College, Kanjirappally

**Ms. RIYA JAMES**

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Viva voce examination held on ... 16-05-22 .....

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Internal examiner

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External examiner

Place: Kanjirappally

Date: 16/05/22





**DEPARTMENT OF VOCATIONAL COMMERCE**

**ST.DOMINIC'S COLLEGE, KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that project work entitled “ A STUDY ON THE DYNAMICS OF SBI BANKING APPLICATION YONO AND ITS IMPACT ON THE BANKING BEHAVIOUR OF CUSTOMERS WITH SPECIAL REFERENCE TO KANJIRAPPALLY TALUK” is a bonafide piece of work done by Nimmy Thomas(Reg No.190021053238). Dileep Dasan(Reg No.190021053222).Ninil K Nazar(Reg No.190021053239) under my supervision and guidance and submitted to Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

**Ms. ANJU TREESA SAJI**

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Head of the Department

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Viva voce examination held on 16/05/22.....

  
Internal examiner

External examiner

Place: Kanjirappally  
Date: 16/05/22



**DEPARTMENT OF VOCATIONAL COMMERCE ST. DOMINIC'S COLLEGE,  
KANJIRAPALLY**



**CERTIFICATE**

This is to certify that the project work entitled “**A STUDY ON THE EFFECTIVENESS OF IMPLEMENTATION OF MAHATMA GANDHI NATIONAL RURAL EMPLOYMENT GUARANTEE ACT (MGNREGA) WITH SPECIAL REFERENCE TO PARATHODU GRAMA PANCHAYATH**” is a bonafide piece of work done by completed under my supervision to partial fulfilment of the requirements for the award of the degree of bachelor of commerce in Mahatma Gandhi University, Kottayam.

They are permitted to submit the report.

**Mrs MANJUSHA S.G**  
Head of the Department

St. Dominic's College  
Kanjirapally

**Dr. SEEMON THOMAS**  
Principal

St. Dominic's College  
Kanjirapally

**Mrs RENJITHA**  
Project Guide

St. Dominic's College  
Kanjirapally

Viva voice examination held on..16.05.2022

Internal Examiner

Place: Kanjirapally  
Date: March 2022



External Examiner

DEPARTMENT OF VOCATIONAL COMMERCE  
ST DOMINIC'S COLLEGE, KANJIRAPPALLY



CERTIFICATE

This is to certify that the project work entitled “**JOB SATISFACTION OF E-KART DELIVERY BOYS WITH SPECIAL REFERENCE TO KOTTAYAM DISTRICT**” is a bonafide piece of work done by AMAL SIBY (Reg No.190021053218), DONY JOSE (Reg No. 190021053223), ANJU VIJAYAN (Reg No 190021053221) completed under my supervision to partial fulfilment of the requirements for the award of the Degree of Bachelor of Commerce in Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

Ms. MANJUSHA S G

Head of the Department

Department of Vocational Commerce

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Ms. VARSHAMOL P V

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Department of Vocational Commerce

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Kanjirappally

Viva voice examination held on 16-05-2022

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Place: Kanjirappally

Date: 16-05-22



External examiner



DEPARTMENT OF VOCATIONAL COMMERCE

ST DOMINIC'S COLLEGE, KANJIRAPPALLY



CERTIFICATE

This is to certify that the project work entitled "A STUDY ON IMPACT OF E-WASTE MANAGEMENT WITH SPECIAL REFERENCE TO KOTTAYAM DISTRICT" is a bonafide piece of work done by ALBI SAJI (Regno:190021053216), ALEX BIJU (Regno: 190021053217), JOYAL SEBASTIAN (Regno:190021053230), completed under my supervision to partial fulfilment of the requirements for the award of the Degree of Bachelor of Commerce in Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

Ms. MANJUSHA S G

Head of the Department

Department of Vocational Commerce

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Kanjirappally

Ms. REEMA ABRAHAM

Project Guide

Department of Vocational Commerce

St. Dominic's College

Kanjirappally

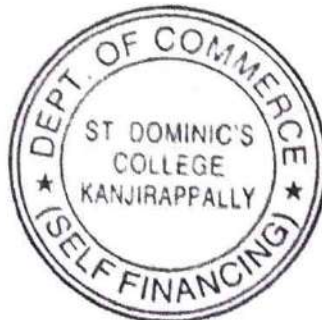
Viva voice examination held on 16/05/22

.....Vazal.....

Internal Examiner

Place: Kanjirappally

Date: 16/05/22



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External examiner

DEPARTMENT OF VOCATIONAL COMMERCE

ST DOMINIC'S COLLEGE, KANJIRAPPALLY



CERTIFICATE

This is to certify that the project work entitled "A STUDY ON IMPACT OF PETROL PRICE HIKE ON COMMON PEOPLE WITH SPECIAL REFERENCE TO KANJIRAPPALLY TALUK" is a bonafide piece of work done by MOHAMMED BILAL (Regno:170021083396) ANN THOMAS (Regno: 190021053246), JOSEPH GEORGEY (Regno: 170021083413) completed under my supervision to partial fulfilment of the requirements for the award of the Degree of Bachelor of Commerce in Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

Ms. MANJUSHA S G

Head of the Department

Department of Vocational Commerce

ST. Dominic's College

Kanjirappally

Ms. VARSHAMOL P V

Project Guide

Department of Vocational Commerce

ST. Dominic's College

Kanjirappally

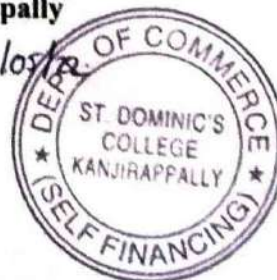
Viva voice examination held on ...16/05/22...

Internal Examiner

External examiner

Place : Kanjirappally

Date : 16/05/22



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**ST. DOMINIC'S COLLEGE, KANJIRAPALLY**



**CERTIFICATE**

This is to certify that project work entitled "A STUDY ON JOB SATISFACTION AND WORK LIFE BALANCE OF WORK FROM HOME EMPLOYEES WITH SPECIAL REFERENCE TO KANJIRAPPALLY TALUK" is a bonafide piece of work done by MEERA SAJIKAMAL(190021053233) SAYANA P.S(190021053242) TOM JOSEPH(190021053253) under my supervision and guidance and submitted to Mahatma Gandhi University, Kottayam. They are permitted to submitted the report

**Ms. MANJUSHA S.G**

Head of the department.

B.Com Computer Application.

St. Dominic's College Kanjirappally

**Ms. Anju Treesa Saji**

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Bcom Computer Application

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Viva voce examination held on ..16-05-2022.....

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Internal examiner

Place: Kanjirappally.

Date: 16/05/22



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External examiner



**DEPARTMENT OF VOCATIONAL COMMERCE ST.  
DOMINIC'S COLLEGE, KANJIRAPALLY**



**CERTIFICATE**

This is to certify that the project work entitled "A STUDY ON THE EFFECT OF E - LEARNING DURING COVID-19 AMONG COLLEGE STUDENTS WITH SPECIAL REFERENCE TO ST. DOMINIC'S COLLEGE KANJIRAPALLY" is a bonafide piece of work done by AMALA P MATHEW (190021053219) ALAN K SABU (190021053215) NAVIN NJAVALLIKUNNEL (190021053237) completed under my supervision to partial fulfilment of the requirements for the award of the degree of bachelor of commerce in Mahatma Gandhi University, Kottayam.

They are permitted to submit the report.

**Mrs. MANJUSHA S.G**  
Head of the Department  
St. Dominic's College  
Kanjirapally

**Dr. SEEMON THOMAS**  
Principal  
St. Dominic's College  
Kanjirapally

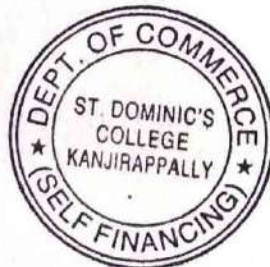
**Mrs. RENJITHA**  
Project Guide  
St. Dominic's College  
Kanjirapally

Viva voice examination held on 16-05-22.....

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Internal Examiner

.....  
External Examiner

Place: Kanjirapally  
Date: 16-05-22



**DEPARTMENT OF VOCATIONAL COMMERCE**

**ST.DOMINIC'S COLLEGE, KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that project work entitled **“PERCEPTION OF CUSTOMERS TOWARDS THE MERGER OF VODAFONE INDIA AND IDEA CELLULAR”** is a bonafide piece of work done by **HAZBI REMNA ANSARI, JAIMON SEBASTIAN, ASHWIN P KUMAR** under my supervision and guidance and submitted to Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

**Ms. JESSYMOL JOSE**

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Department of Vocational Commerce

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**Ms. MANJUSHA S.G**

Head of the Department

B.Com Computer Application

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Viva voce examination held on ...*16.05/2022*.....

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Internal examiner

Place: Kanjirappally

Date: *16/05/22*



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External examiner

**DEPARTMENT OF VOCATIONAL COMMERCE**

**ST.DOMINIC'S COLLEGE, KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that project work entitled "AWARENESS AND ATTITUDE OF SALARIED INDIVIDUALS TOWARDS MOBILE TRADING APPS WITH SPECIAL REFERENCE TO KOTTAYAM DISTRICT" is a bonafide piece of work done by ARUN JOSEPH, AZAD V NAZAR, BINSU S PANTHALANI under my supervision and guidance and submitted to Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

*Jessy*  
**Ms. JESSYMOL JOSE**

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**Ms. MANJUSHA S.G**

Head of the Department

B.Com Computer Application

St. Dominic's College, Kanjirappally

Viva voce examination held on .....16.05.2022

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*Manjusha*

Internal examiner

Place: Kanjirappally

Date:

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External examiner





DEPARTMENT OF VOCATIONAL COMMERCE  
ST. DOMINIC'S COLLEGE, KANJIRAPALLY



**CERTIFICATE**

This is to certify that the project work entitled "STUDY ON HEALTH INSURANCE AMONG PRIVATE SECTOR IN KERALA" is a bonafide piece of work done by ABIN BINNY (190021073640) ANN MARIA DIAS (190021073651) SURYAMOL PB (190021073674) completed under my supervision to partial fulfillment of the requirements for the award of the degree of bachelor of commerce in Mahatma Gandhi University, Kottayam. They are permitted to submit the report

Mrs. MANJUSHA S.G

Dr. SEEMON THOMAS

Mrs. REEMA ABHRAM

Head of the Department

Principal

Project Guide

St. Dominic's College

St. Dominic's College

St. Dominic's College

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Viva voice examination held on... 16-05-2022

Internal Examiner

External Examiner

Place: Kanjirapally

Date:



**DEPARTMENT OF VOCATIONAL COMMERCE**

**ST DOMINIC'S COLLEGE, KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that the project work entitled “ **STUDY ON THE CONSUMER SATISFACTION OF MILK AND MILK PRODUCTS OF MILMA WITH SPECIAL REFERENCE TO KANJIRAPPALLY TALUK**” is a bonafide piece of work done by **Ayan Muhammed MS**(Regno: 190021073657), **Priya Elizabeth Cherian**(Regno: 190021073670), **Sudheesh KJ**(Regno: 190021073673) completed under my supervision to partial fulfilment of the requirements for the award of the Degree of Bachelor of Commerce in Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

**Ms. MANJUSHA S G**

**Head of the Department**

**Department of Vocational Commerce**

**St. Dominic's College**

**Kanjirappally**

**Ms. VARSHAMOL P V**

**Project Guide**

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**St. Dominic's College**

**Kanjirappally**

**Viva voice examination held on 16.05.22** .....

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**Internal Examiner**

**Place : Kanjirappally**

**Date :**



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**External examiner**

DEPARTMENT OF VOCATIONAL COMMERCE  
ST DOMINIC'S COLLEGE, KANJIRAPPALLY



CERTIFICATE

This is to certify that the project work entitled “ **IMPACT OF E-PAYMENT ON ONLINE SHOPPING BEHAVIOUR WITH SPECIAL REFERENCE TO KANJIRAPPALLY TALUK**” is a bonafide piece of work done by **AFNAN PS**(Regno:190021073643), **TREESA JOJO**(Regno: 190021073678), **LEYO JOHN**(Regno: 190021073667) completed under my supervision to partial fulfilment of the requirements for the award of the Degree of Bachelor of Commerce in Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

  
Ms. MANJUSHA S.G.

  
Ms. VARSHAMOL PV

Head of the Department

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Department of Vocational Commerce

Department of Vocational

Commerce St. Dominic's College

St. Dominic's College

Kanjirappally

Kanjirappally

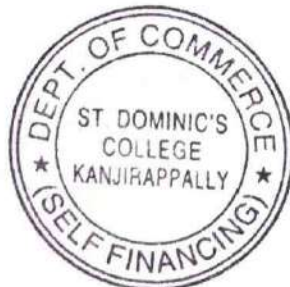
Viva voice examination held on...16-05-2022

  
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Internal Examiner

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External Examiner

Place : Kanjirappally

Date :





**DEPARTMENT OF VOCATIONAL COMMERCE**

**ST. DOMINIC'S COLLEGE, KANJIRAPPALLY**



**CERTIFICATE**

*This is to certify that the project work entitled "A CUSTOMER CENTRIC STUDY ON THE EFFECTIVENESS OF INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) ENABLED SERVICES PROVIDED BY SOUTH INDIAN BANK WITH SPECIAL REFERENCE TO KOTTAYAM DISTRICT" is a Bonafede piece of work done by AMAL BIJU (Reg no: 190021073648) ARJUN SHAJI (Reg no: 190021073654), THASLEEMA SUBAIR (Reg no: 190021073669), completed under my supervision to partial fulfilment of the requirements for the award of the Degree of Bachelor of Commerce in Mahatma Gandhi University, Kottayam. They are permitted to submit the report.*

**Ms. MANJUSHA S G**

Head of the Department

Department of Vocational Commerce

St. Dominic's College  
Kanjirappally

**Ms. JISHA MARY JAMES**

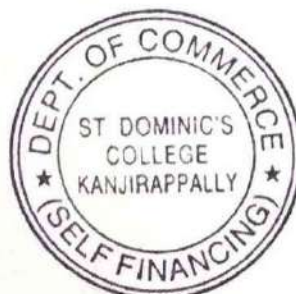
Project Guide

Department of Vocational Commerce

St. Dominic's College  
Kanjirappally

Viva voice examination held on 16/5/2022.....

**INTERNAL EXAMINER**



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**EXTERNAL EXAMINER**

Place: Kanjirappally

Date: / / 2022

**DEPARTMENT OF VOCATIONAL COMMERCE**  
**ST.DOMINIC'S COLLEGE, KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that project work entitled "A STUDY ON CONSUMER'S BRAND PREFERENCE TOWARDS MOBILE PHONE WITH SPECIAL REFERENCE TO KANJIRAPPALLY TALUK" is a bonafide piece of work done by **AKHIL ELIAS ABRAHAM** (Reg no.190021073645), **K.PRAVITHA** (Reg no.190021073665), **YEDHUKRISHNA S** (Reg no.190021073679) under my supervision and guidance and submitted to Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

*Rm*  
**MS.RIYA JAMES**

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Department of Vocational Commerce

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**Ms. MANJUSHA S.G**

Head of the Department

B.com Computer Application

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Viva voce examination held on ...16-05-2022

*Vivek*  
.....

Internal examiner

.....  
External examiner

Place: Kanjirappally

Date



**DEPARTMENT OF VOCATIONAL COMMERCE  
ST. DOMINIC'S COLLEGE, KANJIRAPALLY**



**CERTIFICATE**

This is to certify that the project work entitled "A STUDY ON ATTITUDE OF PEOPLE TOWARDS GREEN PRODUCTS" is a bonafide piece of work done by ABIN JACOB (190021073641) ANJANA MOL (190021073650) GEORGE JOSEPH(190021073661) completed under my supervision to partial fulfilment of the requirements for the award of the degree of bachelor of commerce in Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

**Mrs. MANJUSHA S.G**

Head of the Department

St. Dominic's College

Kanjirapally

Viva voice examination held on...14/05/2022..

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Internal Examiner

Place: Kanjirapally

Date:

**Dr. SEEMON THOMAS**

Principal

St. Dominic's College

Kanjirapally

**Mrs. RENJITHA**

Project Guide

St. Dominic's College

Kanjirapally

.....  
External Examiner





DEPARTMENT OF VOCATIONAL COMMERCE  
ST.DOMINIC'S COLLEGE, KANJIRAPPALLY



CERTIFICATE

This is to certify that project work entitled "A study on work-life balance among mompreneurs: with special reference to Kanjirappally taluk " is a bonafide piece of work done by Shehin Akbar, Anna Abraham, Kandathinkal Shithin Thambi under my supervision and guidance and submitted to Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

**Ms. RENJITHA RAJESH**

Project Guide

B.com Computer Application

Department of Vocational Commerce

St. Dominic's College, Kanjirappally

**Ms. MANJUSHA S.G**

Head of the Department

B.com Computer Application

St. Dominic's College, Kanjirappally

Viva voce examination held on ...16-05-2022...

Internal examiner

Place: Kanjirappally

Date



External examiner

**DEPARTMENT OF VOCATIONAL COMMERCE**

**ST.DOMINIC'S COLLEGE, KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that project work entitled **A STUDY ON CUSTOMER SATISFACTION TOWARDS DIFFERENT E-SHOPPING SITE WITH SPECIAL REFERENCE TO KANJIRAPPALLY TALUK** is a bonafide piece of work done by **TEBIN THOMAS**(Reg. No.190021073675 )**TONY JOY**(Reg. No.190021073677 )**DEVIKA ANILKUMAR**(Reg No:190021073660)completed under my supervision to partial fulfilment of the requirements for the award of the Degree of Bachelor of Commerce in Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

**Mrs. MANJUSHA SG**

Head of the Department

St.Dominic's College Kanjirappally

**Mrs. RIYA JAMES**

Project Guide

St.Dominic's College Kanjirappally

Viva voce examination held on 16-05-2022.....

.....

Internal examiner

Place: Kanjirappally

Date :



External examiner

**DEPARTMENT OF VOCATIONAL COMMERCE**  
**ST. DOMINIC'S COLLEGE, KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that project work entitled "A Study on financial literacy among college students with special reference to Kottayam district" is a bonafide piece of work done by Archana Rajeev(reg.no.190021073653) Alfin. T. Kochuveedan(reg.no19021073646) Joseph Mathews(reg.no.190021073664) under my supervision and guidance and submitted to Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

  
**Ms. ANJU TREESA SAJI**

Project Guide

B.com Computer Application

Department of Vocational Commerce

St. Dominic's College, Kanjirappally


  
**Ms. MANJUSHA S.G**

Head of the Department

B.com Computer Application

St. Dominic's College, Kanjirappally

Viva voce examination held on ...16/05/2022.....

  
.....

Internal examiner

.....  
External examiner

Place: Kanjirappally

Date





**DEPARTMENT OF VOCATIONAL COMMERCE**

**ST.DOMINIC'S COLLEGE, KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that project work entitled “A STUDY ON THE EFFECTIVENESS OF ONLINE BUSINESS AMONG WOMEN” is a bonafide piece of work done by AMAL BAIJU and GEORGIN ROY under my supervision and guidance and submitted to Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

  
Ms. MANJUSHA S.G

Head of the Department

B.com Computer Application

St. Dominic's College, Kanjirappally

  
Ms. Anju Treesa Saji

Project Guide

B.com Computer Application

Department of Vocational Commerce

St. Dominic's College, Kanjirappally

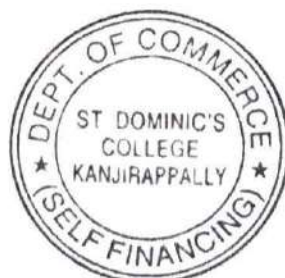
Viva voce examination held on 16/05/2022.....

  
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Internal examiner

Place: Kanjirappally

Date:



External examiner

DEPARTMENT OF VOCATIONAL COMMERCE  
ST.DOMINIC'S COLLEGE, KANJIRAPPALLY



CERTIFICATE

This is to certify that project work entitled "PERCEPTION OF EMPLOYEES OF NEW GENERATION BANKS TOWARDS TRAINING PROGRAMMES WITH SPECIAL REFERENCE TO KOTTAYAM DISTRICT" is a bonafide piece of work done by AISHWARYA MURALI, ASHISH REJI JOSEPH, MUHAMMED ASHIQU under my supervision and guidance and submitted to Mahatma Gandhi University, Kottayam. They are permitted to submit the report.

*Jessy*

Ms. JESSYMOL JOSE

Project Guide

B.Com Computer Application

Department of Vocational Commerce

St. Dominic's College, Kanjirappally

Ms. MANJUSHA S.G

Head of the Department

B.Com Computer Application

St. Dominic's College, Kanjirappally

Viva voce examination held on ... 16-05-2022 .....

Vazal  
.....

Internal examiner

Place: Kanjirappally

Date: 16/05/22



.....

External examiner

**HUMAN VERSUS FLESH: REDESIGNING CANNIBALISM  
THROUGH THE MOVIES *AAMIS (RAVENING)* AND *RAW***

Dissertation submitted to Mahatma Gandhi University, Kottayam  
in partial fulfillment of the requirements for the award of Degree of

**Master of Arts in English Language and Literature**

Submitted by

**ABHIRAMI R**

(Reg. No. 200011006571)

Under the Supervision and Guidance of

**MS. NANCY SATISH**



**Post Graduate Department of English**


**St. Dominic's College Kanjirapally, Kottayam**

**September, 2022.**



## Certificate

This is to certify that the dissertation entitled **HUMAN VERSUS FLESH : REDESIGNING CANNIBALISM THROUGH THE OF MOVIES AAMIS (RAVENING) AND RAW**, submitted by, **Ms. Abhirami R(Reg. No. 200011006571)**, in partial fulfillment of the requirement for the award of the Degree of Master of Arts in English Language and Literature of Mahatma Gandhi University, is a record of bonafide work carried out by her in the PG Department of English of this college and that no part of this work has been presented for any other degree or diploma earlier.

  
**Dr. Saju Joseph**  
Head of the PG Department of English

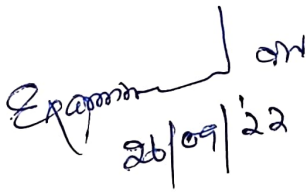
St. Dominic's College  
Kanjirappally

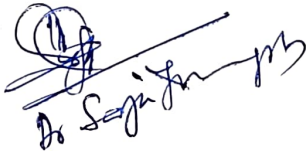
September, 2022.



**Dr. Seemon Thomas**  
Principal

St. Dominic's College  
Kanjirappally

  
26/09/22

  
Dr. Saju Joseph

TRACING LESBIAN SEXUALITIES AND  
MATERNAL DILEMMA IN TODD HAYNES' *CAROL*

Dissertation submitted to Mahatma Gandhi University, Kottayam  
in partial fulfillment of the requirements for the award of Degree of

**Master of Arts in English Language and Literature**

Submitted by

**Sumayya A Rasheed**

**(Reg. No. 200011006569)**

Under the Supervision and Guidance of

**Mrs. Naveena Claris Jose**



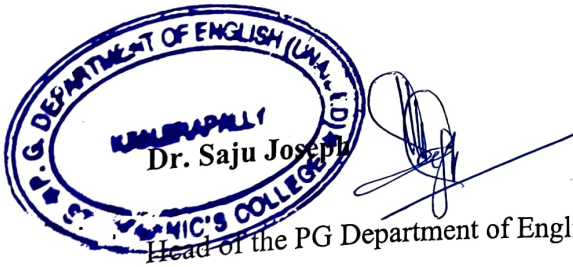
**Post Graduate Department of English (SF)**

**St. Dominic's College Kanjirappally, Kottayam**

**September, 2022.**

## Certificate

This is to certify that the dissertation entitled “**Tracing Lesbian Sexualities and Maternal Dilemma in Todd Haynes’ Carol**”, submitted by Ms. Sumayya A Rasheed (Reg. No. 200011006569), in partial fulfillment of the requirement for the award of the Degree of Master of Arts in English Language and Literature of Mahatma Gandhi University, is a record of bonafide work carried out by her in the PG Department of English of this college and that no part of this work has been presented for any other degree or diploma earlier.

  
Dr. Saju Joseph  
Head of the PG Department of English (SF)

St. Dominic's College

Kanjirappally

September, 2022.

*Examined on  
26/9/22*

*Sneha  
Sneha M. Sasanthy.*



Dr. Seemon Thomas

Principal

St. Dominic's College

Kanjirappally



**BLACK LITERATURE: RACISM, OPPRESSION AND SLAVERY- A QUEST  
FOR SURVIVAL**

Dissertation submitted to Mahatma Gandhi University, Kottayam  
in partial fulfillment of the requirements for the award of Degree of

**Master of Arts In English Language and Literature**

Submitted by

**Sandra Mathew**

**(Reg.No. 200011006568)**

Under the supervision and guidance of

Prof. J.C Kappan



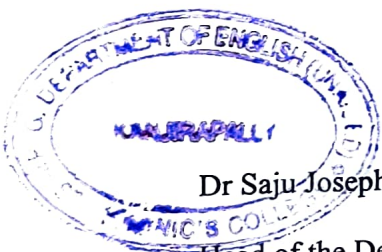
**Post Graduate Department of English (SF)**

**St. Dominic's College Kanjirapally, Kottayam.**

**September, 2022.**

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This is to certify that the Dissertation entitled “**Black Literature: Racism, oppression And Slavery-A Quest for Survival**” By Ms. Sandra Mathew, Reg. No. 200011006568, in partial fulfilment of the requirement for the Award of the Degree of Master of Arts in English Language and Literature of Mahatma Gandhi University, is a record of bonafide work carried out by her in the PG Department of English of this college and that no part of this work has been presented for any other degree or diploma earlier.



Dr Saju Joseph

Head of the Department of English (SF)

St. Dominic's College Kanjirapally

September, 2022.

Dr Seemon Thomas

Principal

St. Dominic's college

Kanjirapally

Examined on  
26/9/22

Sneha  
Sneha M Josantony

**THINKING FORBIDDEN THOUGHT:  
THE OEDIPUS COMPLEX AS A COMPLEX OF KNOWING**

Dissertation submitted to Mahatma Gandhi University, Kottayam  
in partial fulfillment of the requirements for the award of Degree of

**Master of Arts in English Language and Literature**

Submitted by

**RUBEENA P NAZAR**

**(Reg. No. 200011006567)**

Under the Supervision and Guidance of

**Prof. J C Kappan**



**Post Graduate Department of English (SF)**

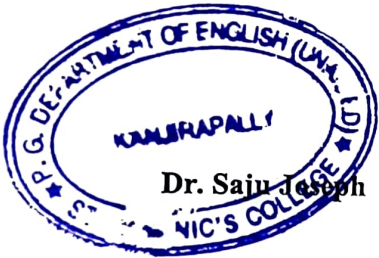
**St. Dominic's College, Kanjirapally, Kottayam**

**September, 2022.**



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This is to certify that the dissertation entitled "**Thinking Forbidden Thought : The Oedipus Complex as a Complex of Knowing**", submitted by Ms. Rubeena P Nazar, (Reg. No. 200011006567), in partial fulfillment of the requirement for the award of the Degree of Master of Arts in English Language and Literature of Mahatma Gandhi University, is a record of bonafide work carried out by her in the PG Department of English of this college and that no part of this work has been presented for any other degree or department earlier.



Dr. Saju Joseph

Head of the PG Department of English (SF)

St. Dominic's College

Kanjirapally

September 2022

Dr. Seemon Thomas

Principal

St. Dominic's College

Kanjirapally

*Examined on  
26/09/22*

*Sheha  
Sheha M. Antony*

**AN ICOSAHEDRON;  
ANTHROPOMORPHISM IN ANTHROPOCENE FAIRY- TALE;  
*THE SHAPE OF WATER***

Dissertation submitted to Mahatma Gandhi University, Kottayam  
In partial fulfillment of the requirements for the award of Degree of  
**Master of Arts in English Language and Literature**

Submitted by

**Neena Paul**

(Reg. No. 200011006566)

Under the Supervision and Guidance of

**Mr. J C Kappan**



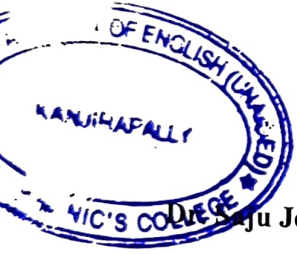
**Post Graduate Department of English**

**St. Dominic's College Kanjirapally, Kottayam**

**September 2022**

## Certificate

This is to certify that the dissertation entitled “An Icosahedron; Anthropomorphism in Anthropocene Fairy-tale; *The Shape of Water*”, submitted by Ms. Neena Paul (Reg. No. 200011006566), in partial fulfillment of the requirement for the award of the Degree of Master of Arts in English Language and Literature of Mahatma Gandhi University, is a record of bona fide work carried out by her in the PG Department of English of this college and that no part of this work has been presented for any other degree or diploma earlier.



Joseph

Head of the PG Department of English (SF)

St. Dominic's College

Kanjirapally

September 2022

Dr. Seemon Thomas

Principal

St. Dominic's College

Kanjirapally

Examined on  
26/9/22

Sneha M. SasanTong



**BREAKING THE SILENCE:**  
**A POSTCOLONIAL FEMINISTIC READING OF CHIMAMANDA**  
**NGOZI ADICHIE'S *PURPLE HIBISCUS***

Dissertation submitted to Mahatma Gandhi University, Kottayam  
in partial fulfillment of the requirements for the award of Degree of

**Master of Arts in English Language and Literature**

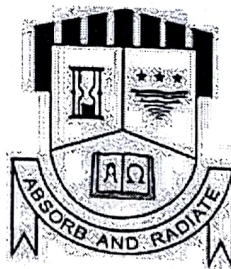
Submitted by

**M SAHILA NIZAR**

**(Reg. No. 200011006565)**

Under the Supervision and Guidance of

**Ms. Naveena Claris Jose**



**Post Graduate Department of English (SF)**  
**St. Dominic's College, Kanjirapally, Kottayam**

**September, 2022.**

## Certificate

This is to certify that the dissertation entitled “**Breaking The Silence : A Postcolonial Feministic Reading of Chimamanda Ngozi Adichie’s *Purple Hibiscus***”, submitted by Ms. M Sahila Nizar, (Reg. No. 200011006565), in partial fulfillment of the requirement for the award of the Degree of Master of Arts in English Language and Literature of Mahatma Gandhi University, is a record of bonafide work carried out by her in the PG Department of English of this college and that no part of this work has been presented for any other degree or diploma earlier.



S. J. Joseph

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September, 2022.

Dr. Seemon Thomas

Principal

St. Dominic's College

Kanjirapally

Examined on  
26/9/22

Sneha  
Sneha M Josambay.

***NJAN GANDHARVAN, A FILM BY P.PADMARAJAN – A CASE  
STUDY TO DETERMINE HOW MAGICAL REALISM IS USED  
IN MALAYALAM FILMS***

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

**Master of Arts in English Language and Literature**

Submitted by

**Kavya Manoj**

**(Reg. No. 200011006564)**

Under the Supervision and Guidance of

**Ms. Nancy Satish**



**Post Graduate Department of English (SF)**

**St. Dominic's College Kanjirapally, Kottayam**

**September, 2022.**



## Certificate

This is to certify that the dissertation entitled "*Njan Gandharvan, a film by P. Padmarajan – A Case Study to Determine How Magical Realism is Used in Malayalam Films*", submitted by Ms. Kavya Manoj (Reg. No. 200011006564), in partial fulfillment of the requirement for the award of the Degree of Master of Arts in English Language and Literature of Mahatma Gandhi University, is a record of bonafide work carried out by her in the PG Department of English of this college and that no part of this work has been presented for any other degree or diploma earlier.



Dr. Saju Joseph

Head of the PG Department of English (SF)

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Kanjirapally

September, 2022.

Dr. Seemon Thomas

Principal

St. Dominic's College

Kanjirapally

Examined on  
26/09/22

Dr. Saju Thomas

***The Platform: A Reflection of the Society and its Depravity.***  
**Analysing the Netflix's Sensation Movie as a Social Criticism**

Dissertation Submitted to Mahatma Gandhi University, Kottayam

in partial fulfilment of the requirements for the award of degree of

**Master of Arts in English Language and Literature**

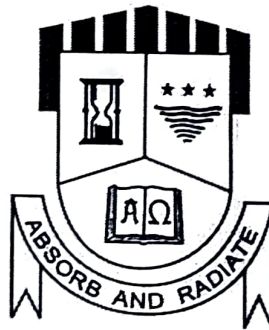
**Submitted by**

**Jissin Mathew**

**Reg: 200011006562**

Under the supervision and Guidance of

**Ms. Treesa Joseph**



**Post Graduate Department of English**

**St. Dominic's College Kanjirapally, Kottayam**

**September, 2022.**

## Certificate

This is to certify that the dissertation entitled "*The Platform: A Reflection of the Society and its Depravity. Analysing the Netflix's Sensation Movie as a Social Criticism*", submitted by Mr. Jissin Mathew, Reg: (200011006562) in partial fulfillment of the requirement for the award of the Degree of Master of Arts in English Language and Literature of Mahatma Gandhi University, is a record of bona fide work carried out by him in the PG Department of English of this College and that no part of this work has been presented for any other degree or diploma earlier.



Dr. Saju Joseph

Head of the PG Department of English(SF).

St. Dominic's College

Kanjirapally

September, 2022.

Dr. Seemon Thomas

Principal

St. Dominic's College Kanjirapally

Examined on 26/09/2022

Dr. Saju Joseph



***“Bharya and Njangal Santhushtaranu”*: The impact of these  
movies on the Kerala Community**

Dissertation submitted to Mahatma Gandhi University, Kottayam  
in partial fulfillment of the requirements for the award of Degree of  
**Master of Arts in English Language and Literature**

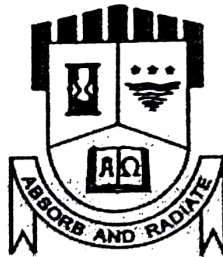
Submitted by

**Hannah Elizabeth Mathew**

**(Reg. No. 200011006561)**

Under the Supervision and Guidance of

**Dr. Saju Joseph**



**Post Graduate Department of English (SF)**

**St. Dominic's College Kanjirappally, Kottayam**

**September, 2022.**

## CERTIFICATE

This to certify that the dissertation entitled, "*Bharya and Njungal Santhushtaranu*": The impact of these movies on the Kerala Community submitted by Ms. Hannah Elizabeth Mathew (Reg. No. 200011006561), in partial fulfillment of the requirement for the award of the Degree of Master of Arts in English Language and Literature of Mahatma Gandhi University, is a record of bonafide work carried out by her in the PG Department of English of this college and that no part of this work has been presented for any other degree or diploma earlier.



Head of the PG Department of English (SF)

St. Dominic's College

Kanjirappally

September, 2022.

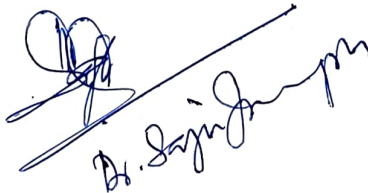


Dr. Seemon Thomas

Principal

St. Dominic's College Kanjirappally

Examined on  
26/09/2022



Dr. Saju Joseph

# **Gender Identity: A Phenomenal Exploration of Traumatic Experience of**

## **Transgenders in Manobi's *A Gift of Goddess Lakshmi***

Dissertation submitted to Mahatma Gandhi University, Kottayam

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

**Master of Arts in English Language and Literature**

Submitted by

**Gladia Mariya Abraham**

**(Reg. No. 200011006560)**

Under the Supervision and Guidance of

**Ms. Treesa Joseph**



**Post Graduate Department of English (SF)**

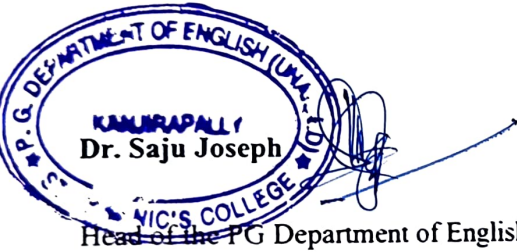
**St. Dominic's College Kanjirappally, Kottayam**

**September, 2022.**



## CERTIFICATE

This to certify that the dissertation entitled, "**Gender Identity: A Phenomenal Exploration of Traumatic Experience of Transgenders in Manobi's *A Gift of Goddess Lakshmi***", submitted by Ms.Gladia Mariya Abraham (Reg. No. 200011006560), in partial fulfillment of the requirement for the Degree of Master of Arts in English Language and Literature of Mahatma Gandhi University, is a record of bona fide work carried out by her in the PG Department of English of this college and that no part of this work has been presented for any other degree or diploma earlier.



Head of the PG Department of English (SF)

St. Dominic's College

Kanjirappally


September, 2022.

  
Dr. Seemon Thomas

Principal

St. Dominic's College Kanjirappally

Examined on  
26/09/22

  
Dr. Saju Joseph

**The Anatomy of Desire**

**A Queer Theory Analysis of Andria Aciman's**

***Call Me By Your Name***

Dissertation Submitted to Mahatma Gandhi University, Kottayam

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

**Master of Arts in English Language and Literature**

**Submitted by**

**Feby Varghese**

**Reg: 200011006559**

Under the supervision and Guidance of

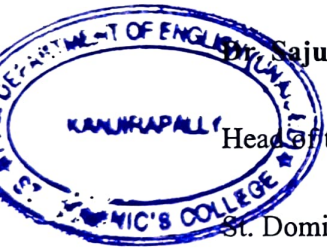
**Ms. Naveena Claris Jose**



**Post Graduate Department of English**  
**St.Dominic's College Kanjirappally, Kottayam**  
**September, 2022.**

## Certificate

This is to certify that the dissertation entitled, “**The Anatomy of Desire: A Queer Theory analysis of Andria Aciman's *Call Me By Your Name***”, submitted by Feby Varghese (Reg.no. 200011006559), in partial fulfillment of the requirement for the award of the Degree of Master of Arts in English Language and Literature of Mahatma Gandhi University, is a record of bonafide work carried out by her in the PG Department of English of this College and that no part of this work has been presented for any other degree or diploma earlier.



**Saju Joseph.**  
Head of the PG Department of English (SF)  
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Kanjirapally

September, 2022.

**Dr. Seemon Thomas**

Principal

St. Dominic's College

Kanjirappally

Examined on  
26/09/22

**Dr. Saji**



**EXPLORING THE SUPERNATURAL:**  
**A MAGICAL FEMINIST STUDY OF ISABEL AELLENDÉ'S**  
***THE HOUSE OF THE SPIRITS***

Dissertation submitted to Mahatma Gandhi University, Kottayam  
in partial fulfillment of the requirements for the award of Degree of  
**Master of Arts in English Language and Literature**

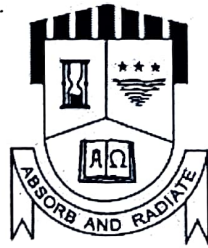
Submitted by

**Arya Sree Bose**

(Reg. No. 200011006558)

Under the Supervision and Guidance of

**Dr. Saju Joseph**



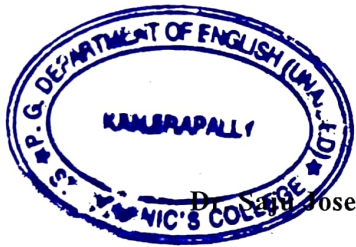
**Post Graduate Department of English (SF)**

**St. Dominic's College, Kanjirapally, Kottayam**

**September , 2022**

## Certificate

This is to certify that the dissertation entitled “Exploring the Supernatural : A Magical Feminist Study of Isabel Allende’s *The House of The Spirits*”, submitted by Ms. Arya Sree Bose, (Reg. No. 200011006558), in partial fulfillment of the requirement for the award of the Degree of Master of Arts in English Language and Literature of Mahatma Gandhi University, is a record of bonafide work carried out by her in the PG Department of English of this college and that no part of this work has been presented for any other degree or diploma earlier.



Dr. Saji Joseph

Head of the PG Department of English (SF)

St. Dominic's College

Kanjirapally

September, 2022

Dr. Seemon Thomas

Principal

St. Dominic's College

Kanjirapally

Examined on  
26/09/22

Dr. Saji Joseph

# **AUTOMATED VERTICAL AND HORIZONTAL INTEGRATED FARMING SYSTEM**

**A PROJECT REPORT SUBMITTED**

**BY**

**ABDULLA**

*For partial fulfillment for the award of the degree of*

**B. VOC. AGRICULTURE TECHNOLOGY**



**ST. DOMINIC'S COLLEGE KANJIRAPALLY,  
MAHATMA GANGHI UNIVERSITY,  
KOTTAYAM, KERALA**

**MARCH 2022**



# Kerala Agricultural University



DIRECTORATE OF EXTENSION

CENTRAL TRAINING INSTITUTE

Mannuthy, Thrissur 680 651, Kerala, India

## Certificate

55112

This is to certify that

Abdulla



has satisfactorily completed the

Training On Automated Vertical and

Horizontal Integrated Farming Systems.

conducted at

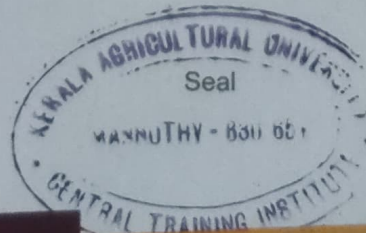
Hi-Tech Research & Training Unit, IF, VK17

from

03/03/2022 to 31/03/2022

Course Director

Head of Office



Director of Extension

# **AUTOMATED VERTICAL AND HORIZONTAL INTEGRATED FARMING SYSTEM**

**A PROJECT REPORT SUBMITTED**

**BY**

**ABHINAV B SHAJI**

*For partial fulfillment for the award of the degree of*

**B. VOC. AGRICULTURE TECHNOLOGY**



**ST. DOMINIC'S COLLEGE KANJIRAPALLY,**

**MAHATMA GANGHI UNIVERSITY,**

**KOTTAYAM, KERALA**

**MARCH 2022**



# Kerala Agricultural University



DIRECTORATE OF EXTENSION

**CENTRAL TRAINING INSTITUTE**

Mannuthy, Thrissur 680 651, Kerala, India

## Certificate

56232

This is to certify that

Abhinav . B . Shaji



has satisfactorily completed the

Training on Automated Vertical and Horizontal

Integrated Farming Systems.

conducted at

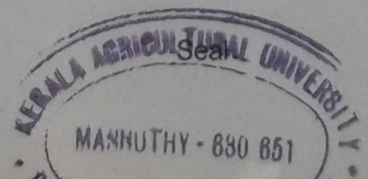
Hi-Tech Research and Training Unit, IF, VKA

from

03/03/2022 to 31/03/2022

Director

Head of Office



Director of Extension

500



**STANDARDIZATION OF TECHNOLOGY FOR PRODUCTION OF VALUE ADDED  
PRODUCT FIG FROM TROPICAL FRUITS**

**A project report submitted**

**By**

**ABHIRAMI L**

*For partial fulfilment for the award of the degree of*

**B.Voc. Agriculture Technology**

**Batch : 2019-2022**



**ST. DOMINIC'S COLLEGE KANJIRAPALLY,  
MAHATMA GANDHI UNIVERSITY,  
KOTTAYAM, KERALA**



## KERALA AGRICULTURAL UNIVERSITY

*Banana Research Station, Kannara., Thrissur-680 652*

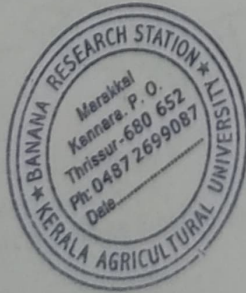
E-mail : [brskannara@kau.in](mailto:brskannara@kau.in), Ph No. 0487 - 2699087

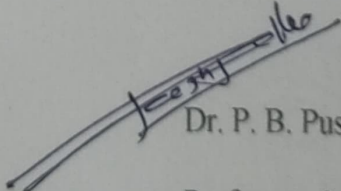
No: BRS (2) 820/21

Date: 19.03.2022

### Certificate

This is to certify that Ms. ABHIRAMI. L, B.Voc Agriculture Technology student from St. Dominic's college, Kanjirappally, Kottayam, has successfully completed her 15 days project work entitled "Standerdisation Of Technology For Production Of Value Added Product " Fig" From Tropical fruits" under the guidance of Dr. Manju P.R , Assistant Professor (Horticulture) during 2<sup>nd</sup> March to 19<sup>th</sup> March, 2022 at this station.



  
Dr. P. B. Pushpalatha

Professor & Head

Professor & Head  
Banana Research Station  
Kannara P. O.  
Thrissur - 680 652

# **AUTOMATED VERTICAL AND HORIZONTAL INTEGRATED FARMING SYSTEM**

**A PROJECT REPORT SUBMITTED**

**BY**

**AKARSH M NAIR**

*For partial fulfillment for the award of the degree of*

**B. VOC. AGRICULTURE TECHNOLOGY**



**ST. DOMINIC'S COLLEGE KANJIRAPALLY,**

**MAHATMA GANGHI UNIVERSITY,**

**KOTTAYAM, KERALA**

**MARCH 2022**



# Kerala Agricultural University



DIRECTORATE OF EXTENSION

**CENTRAL TRAINING INSTITUTE**

Mannuthy, Thrissur 680 651, Kerala, India

## Certificate

56231

This is to certify that

Akash . M. Nair



has satisfactorily completed the

Training On Automated Vertical and

Horizontal Integrated Farming Systems

conducted at

Hi-Tech Research and Training Unit, IF, VKA

from

03/03/2022 to 31/03/2022

Director

Head of Office



Director of Extension

EVALUATION OF FRUIT CHARACTERS OF DIFFERENT JACKFRUIT VARIETIES

A project report submitted

By

ALAN JOJI

For partial fulfilment for the award of the degree of

B.Voc. Agriculture Technology



ST. DOMINIC'S COLLEGE KANJIRAPALLY,  
MAHATMA GANDHI UNIVERSITY, KOTTAYAM, KERALA





## KERALA AGRICULTURAL UNIVERSITY

*Banana Research Station, Kannara., Thrissur-680 652*

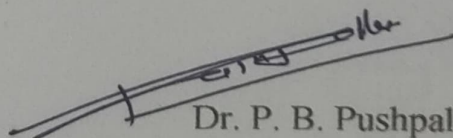
*E-mail : [brskannara@kau.in](mailto:brskannara@kau.in), Ph No. 0487 - 2699087*

No: BRS (2) 820/21

Date: 19.03.2022

### Certificate

This is to certify that **Mr. ALAN JOJI**, B.Voc Agriculture Technology student from St. Dominic's college, Kanjirappally, Kottayam, has successfully completed his 15 days project work entitled "**Evaluation of Fruit Characters of Different Jackfruit Varieties**" under the guidance of Dr. Manju P.R., Assistant Professor (Horticulture) during 2<sup>nd</sup> March to 19<sup>th</sup> March, 2022 at this station.



Dr. P. B. Pushpalatha



Professor & Head  
**Professor & Head**  
Banana Research Station  
Kannara P. O.  
Thrissur - 680 652



# TECHNIQUES FOR MAKING DRY FLOWERS

By

ANEENA PAUL

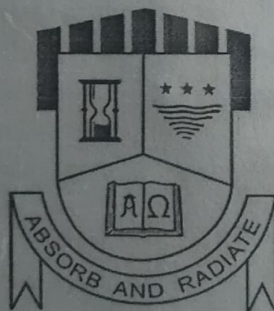
REGISTER NO: 190041001316

## PROJECT REPORT

*Submitted in partial fulfillment of the  
requirement for the degree of*

**B.Voc Agriculture Technology**

Mahatma Gandhi University, Kottayam-686560



**ST. DOMINIC'S COLLEGE**

Kanjirappilly – 686512

(Affiliated to Mahatma Gandhi University, Kottayam-686560)

MARCH 2022

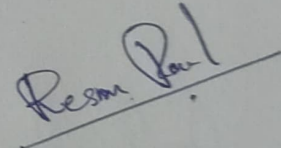
DECLARATION

### CERTIFICATE

This is to certify that the project work entitled "**Techniques for making dry flowers** " is a result of experiment carried out by Ms.Aneena Paul a student of B.Voc Agriculture Technology, St.Dominic's College, Kanjirappally, Kottayam, Kerala between 4<sup>th</sup> March to 31<sup>st</sup> March 2022 in Department of Floriculture and Landscape Architecture, College of Agriculture (KAU) Vellanikkara under my guidance.

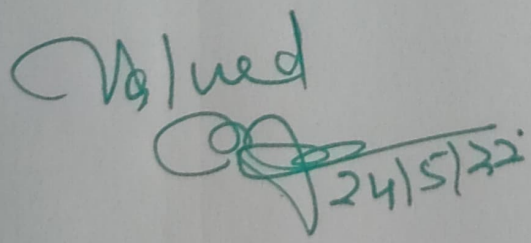
Place : Thrissur

Date : 31-03-2022



Dr. Resmi Paul

Assistant Professor



24/5/22

Nodel Officer  
Department of B.VOC. Programmes  
St. Dominic's College Kanjirappally



**STANDERDISATION OF TECHNOLOGY FOR PRODUCTION OF VALUE ADDED  
PRODUCT FIG FROM TROPICAL FRUITS**

**PROJECT REPORT**

**By**

**Anita Joseph**

*For partial fulfilment for the award of the degree of*

**B.Voc. Agriculture Technology**



**ST. DOMINIC'S COLLEGE KANJIRAPALLY,  
MAHATMA GANDHI UNIVERSITY,  
KOTTAYAM, KERALA**

**MARCH 2022**





## KERALA AGRICULTURAL UNIVERSITY

*Banana Research Station, Kannara., Thrissur-680 652*

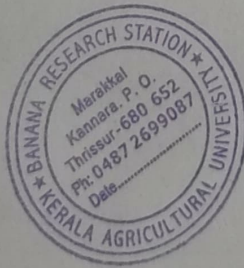
**E-mail : [brskannara@kau.in](mailto:brskannara@kau.in), Ph No. 0487 - 2699087**

No: BRS (2) 820/21

Date: 19.03.2022

### Certificate

This is to certify that **Ms. ANITA JOSEPH**, B.Voc Agriculture Technology student from St. Dominic's college, Kanjirappally, Kottayam, has successfully completed her 15 days project work entitled "**Standerdisation Of Technology For Production Of Value Added Product " Fig" From Tropical fruits**" under the guidance of Dr. Manju P.R., Assistant Professor (Horticulture) during 2<sup>nd</sup> March to 19<sup>th</sup> March, 2022 at this station.



Dr. P. B. Pushpalatha

Professor & Head  
Professor & Head  
Banana Research Station,  
Kannara P. O.  
Thrissur - 680 652

# DISTRICT AGRICULTURE FARM KOZHA

A PROJECT REPORT SUBMITTED

By

Anjali. P .Chacko

For partial fulfilment for the award of the degree of  
B.Voc. Agriculture Technology



ST.DOMINICS COLLEGE KANJIRAPALLY,  
MAHATMA GANDHI UNIVERSITY,  
KOTTAYAM, KERALA  
MARCH 2022

DEPARTMENT OF AGRICULTURE DEVELOPMENT AND FARMERS' WELFARE

**DISTRICT AGRICULTURAL FARM, KOZHA**

Kozha P.O, Kottayam District, Kerala 686633

Phone : 9383470721

dafkozha@gmail.com

**CERTIFICATE**

This is to certify that Anjali P Chacko, B Voc Agriculture Technology 6<sup>th</sup> Semester student of St. Dominic's College Kanjirapally have successfully completed the Project Work during the period from 02/03/2022 to 19/03/2022 and she has attended District Agricultural Farm Kozha for 15 days. They were trained in Protected cultivation, nursery and floriculture management, Seeds and Seedling production, propagation and plant protection methods of fruits, vegetables, spices, coconut, medicinal plants and commercial crops, compost production and farm labour management and also in office procedures.

This certificate is issued to produce before Nodal Officer, B Voc Programme St. Dominic's College Kanjirappally.

Kozha

24/03/2022



**Farm Superintendent**

*[Handwritten Signature]*  
**REGIMOL THOMAS**  
Farm Superintendent  
(Asst. Director of Agriculture)  
Pen No: 604070  
District Agricultural Farm  
Kozha, Kottayam - 686 633



**DISTRICT SOIL TESTING LAB AND PARASITE  
BREEDING STATION ,KOZHA, KOTTAYAM**

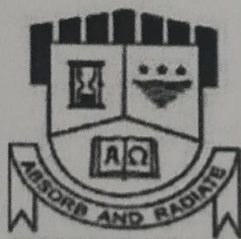
A project report submitted

By

**ANJANA SAJU**

*For a partial fulfillment for the award of the degree of*

**B Voc AGRICULTURE TECHNOLOGY**



**ST. DOMINIC'S COLLEGE, KANJIRAPALLY**

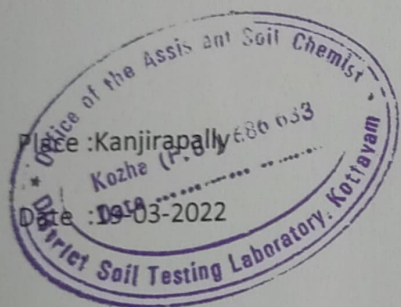
**MAHATMA GANDHI UNIVERSITY,**

**KOTTAYAM, KERALA**

**MARCH, 2022**

## CERTIFICATE

This is to certify that, the project work held at District Soil Testing Lab and Parasite Breeding Station, Kozha, Kottayam is a result of experiments carried out by Anjana Saju, a student of B Voc. Agriculture Technology, St. Dominic's College Kanjirapally, Kottayam, Kerala, between March 2 to March 19 2022 under my guidance.



Mrs. Sherly Zacharias

Assistant Soil Chemist

Kozha, Kottayam, Kerala

Email: dstlkozha@gmail.com

# NUTRITIONAL PROFILE OF SOME COMMON FRUITS AND VEGETABLES

A PROJECT REPORT SUBMITTED

BY

ANJU ANTONY

*For partial fulfillment for the award of the degree of*

**B. VOC. AGRICULTURE TECHNOLOGY**



**ST. DOMINIC'S COLLEGE KANJIRAPALLY,  
MAHATMA GANGHI UNIVERSITY,  
KOTTAYAM, KERALA  
MARCH 2022**





KERALA AGRICULTURAL UNIVERSITY  
COLLEGE OF AGRICULTURE, VELLANIKKARA

Professor & Head  
Department of Post harvest Technology  
Vellanikkara, Thrissur, Kerala – 680656.

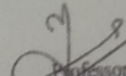
Phone: 0487-2370822\*8381

E-mail: cohptech@kau.in

CERTIFICATE

This is to certify that Ms. Anju Antony, B.Voc. Agricultural Technology, Student from St. Dominic's College Kanjirappally, Kottayam, has successfully completed her 25 days project work entitled "Nutritional profile of some common fruits and vegetables", under the guidance of Dr. Saji Gomez, Professor (Horticulture) during 7<sup>th</sup> March to 31<sup>st</sup> March 2022 in this Department.



  
Professor & Head  
Professor & Head  
Dept. of Post Harvest Technology  
College of Agriculture  
Kerala Agricultural University  
Vellanikkara-680 656

PEERMADE DEVELOPMENT SOCIETY

A Project report submitted

By

ANMARIYA JOSEPH

*For partial fulfillment for the award of the  
degree of*

**B.Voc. Agriculture Technology**



**ST.DOMINIC'S COLLEGE  
KANJIRAPALLY,**

**MAHATMA GANDHI UNIVERSITY,  
KOTTAYAM, KERALA**

28.3.2022

**DISTRICT SOIL TESTING LAB AND PARASITE BREEDING STATION, KOZHA,  
KOTTAYAM**

**A project report submitted**

**By**

**ANU JAMES**

*For partial fulfillment for the award of the degree of*

**B.VOC AGRICULTURE TECHNOLOGY**

**In**

**BATCH – 2019-2022**



**ST. DOMINIC'S COLLEGE, KANJIRAPALLY**

**MAHATMA GANDHI UNIVERSITY,**

**KOTTAYAM, KERALA**

**MARCH, 2022**



## CERTIFICATE

This is to certify that, the project work held at District Soil Testing Lab and Parasite Breeding Station, Kozha, Kottayam is a result of experiments carried out by Anu James , a student of B Voc. Agriculture Technology ,St. Dominic's College Kanjirapally, Kottayam, Kerala, between March 2 to March 19 2022 under my guidance



Mrs. Sherly Zacharias

Assistant Soil Chemist  
Kozha, Kottayam,  
Kerala.

Email ID : dstlkozha@gmail.com

**POST HARVEST EVALUATION AND MANAGEMENT  
OF CELERY (*Apium graveolens. L.*) GROWN IN  
KERALA**

**A PROJECT REPORT SUBMITTED**

**BY**

**APARNA ANILKUMAR**

*For partial fulfillment for the award of the degree of*

**B. VOC. AGRICULTURE TECHNOLOGY**



**ST. DOMINIC'S COLLEGE KANJIRAPALLY,  
MAHATMA GANGHI UNIVERSITY,  
KOTTAYAM, KERALA**

**MARCH 2022**



KERALA AGRICULTURAL UNIVERSITY  
COLLEGE OF AGRICULTURE, VELLANIKKARA

Professor & Head  
Department of Post harvest Technology  
Vellanikkara, Thrissur, Kerala – 680656.

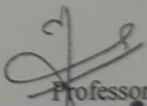
Phone: 0487-2370822\*8381

E-mail: cohptech@kau.in

CERTIFICATE

This is to certify that Ms. Aparna Anilkumar, B.Voc Agricultural Technology, Student from St. Dominic's College Kanjirappally, Kottayam, has successfully completed her 25 days project work entitled "Post harvest evaluation and management of Celery (*Apium graveolens.L*)", under the guidance of Smt. Anu Mary Markose, Assistant Professor (Horticulture) during 7<sup>th</sup> March to 31<sup>st</sup> March 2022 in this Department.



  
Professor & Head  
Professor & Head  
Dept. of Post Harvest Technology  
College of Agriculture  
Kerala Agricultural University  
Vellanikkara-680 656



EVALUATION OF FRUIT CHARACTERS OF DIFFERENT JACKFRUIT VARIETIES

A project report submitted

By

ARATHY SHAJI

For partial fulfilment for the award of the degree of

B.Voc. Agriculture Technology



ST. DOMINIC'S COLLEGE KANJIRAPALLY,  
MAHATMA GANDHI UNIVERSITY, KOTTAYAM, KERALA

MARCH 2022



## KERALA AGRICULTURAL UNIVERSITY

Banana Research Station, Kannara., Thrissur-680 652

E-mail : [brskannara@kau.in](mailto:brskannara@kau.in), Ph No. 0487 - 2699087

No: BRS (2) 820/21

Date: 19.03.2022

### Certificate

This is to certify that Ms. ARATHY SHAJI, B.Voc Agriculture Technology student from St. Dominic's college, Kanjirappally, Kottayam, has successfully completed her 15 days project work entitled "Evaluation of Fruit Characters of Different Jackfruit Varieties" under the guidance of Dr. Manju P.R., Assistant Professor (Horticulture) during 2<sup>nd</sup> March to 19<sup>th</sup> March, 2022 at this station.

Dr. P. B. Pushpalatha



Professor & Head  
Professor & Head  
Banana Research Station  
Kannara P. O.  
Thrissur - 680 652



# DISTRICT AGRICULTURE FARM KOZHA

A PROJECT REPORT SUBMITTED

BY

ARSHA A. S

For partial fulfilment for the award of the degree of  
B.Voc. Agriculture Technology



ST.DOMINICS COLLEGE KANJIRAPALLY,  
MAHATMA GANDHI UNIVERSITY,  
KOTTAYAM, KERALA

MARCH 2022



**CERTIFICATE**

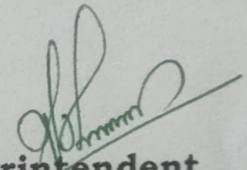
This is to certify that Arsha. A.S, B Voc Agriculture Technology 6<sup>th</sup> Semester student of St. Dominic's College Kanjirapally have successfully completed the Project Work during the period from 02/03/2022 to 19/03/2022 and she has attended District Agricultural Farm Kozha for 15 days. They were trained in Protected cultivation, nursery and floriculture management, Seeds and Seedling production, propagation and plant protection methods of fruits, vegetables, spices, coconut, medicinal plants and commercial crops, compost production and farm labour management and also in office procedures.

This certificate is issued to produce before Nodal Officer, B Voc Programme St. Dominic's College Kanjirappally.

Kozha

24/03/2022

**Farm Superintendent**

  
**REGIMOL THOMAS**  
Farm Superintendent  
(Asst. Director of Agriculture)  
Pen No: 604070  
District Agricultural Farm  
Kozha, Kottayam - 686 633



**DISTRICT SOIL TESTING LAB AND PARASITE  
BREEDING STATION ,KOZHA, KOTTAYAM**

A project report submitted

By

**ARYAMOL SUDHAKARAN**

*For a partial fulfillment for the award of the degree of*

**B Voc AGRICULTURE TECHNOLOGY**



**ST. DOMINIC'S COLLEGE, KANJIRAPALLY**

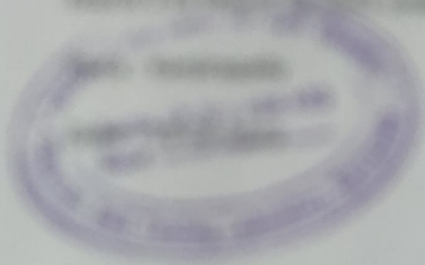
**MAHATMA GANDHI UNIVERSITY,**

**KOTTAYAM, KERALA**

**MARCH, 2022**

**DECLARATION**

I hereby declare that the above information is true and correct to the best of my knowledge and belief. I have not provided any false or misleading information in this declaration. I understand that providing false information is a criminal offense and I am aware of the consequences of such an offense.



Dr. [Name]  
[Title]  
[Address]  
[City]  
[State]  
[Zip]



# **AUTOMATED VERTICAL AND HORIZONTAL INTEGRATED FARMING SYSTEM**

**A PROJECT REPORT SUBMITTED**

**BY**

**ASWIN SAJEEV**

*For partial fulfillment for the award of the degree of*

**B. VOC. AGRICULTURE TECHNOLOGY**



**ST. DOMINIC'S COLLEGE KANJIRAPALLY,**

**MAHATMA GANGHI UNIVERSITY,**

**KOTTAYAM, KERALA**

**MARCH 2022**

# Kerala Agricultural University



DIRECTORATE OF EXTENSION

CENTRAL TRAINING INSTITUTE

Mannuthy, Thrissur 680 651, Kerala, India

## Certificate

56233

This is to certify that

Aswin Sajeev



has satisfactorily completed the

Training On Automated Vertical and

Horizontal Integrated Farming Systems.

conducted at

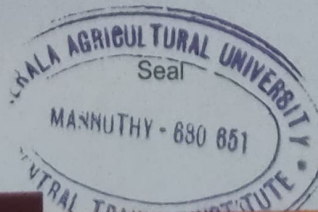
Hi-Tech Research & Training Unit, IF, VKA

from

03/03/2022 to 31/03/2022

Course Director

Head of Office



Director of Extension



**AUTOMATED VERTICAL AND HORIZONTAL INTEGRATED  
FARMING SYSTEM**

**A PROJECT REPORT SUBMITTED**

**BY**

**CELESTIN JIJI**

*For partial fulfillment for the award of the degree of*

**B. VOC. AGRICULTURE TECHNOLOGY**



**ST. DOMINIC'S COLLEGE KANJIRAPALLY,**

**MAHATMA GANGHI UNIVERSITY,**

**KOTTAYAM, KERALA**

**MARCH 2022**



# Kerala Agricultural University



DIRECTORATE OF EXTENSION  
CENTRAL TRAINING INSTITUTE

Mannuthy, Thrissur 680 651, Kerala, India

## Certificate

55111

This is to certify that

Celestin Jiji



has satisfactorily completed the

Training On Automated Vertical and

Horizontal In-Integrated Farming Systems.

conducted at

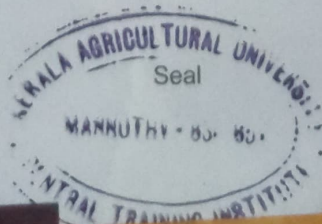
Hi-Tech Research & Training Unit, IF, VKIA

from

03/03/2022 to 31/03/2022

Director

Head of Office



Director of Extension

**STATE VEGETABLE FARM VANDIPERIYAR**

**INTERNSHIP REPORT SUBMITTED**

**BY**

**ESHA BHARATHAN**

**FOR PARTIAL FULFILMENT FOR THE AWARD OF DEGREE  
OF**

**B.VOC. AGRICULTURE TECHNOLOGY**



**St. DOMINIC'S COLLEGE KANJIRAPALLY**

**MAHATMA GANDHI UNIVERSITY,**

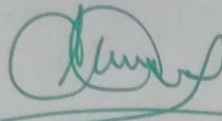
**KOTTAYAM, KERALA**

**MARCH 2022**



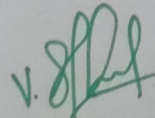
## CERTIFICATE

Certified that the Internship report is the record of internship work done at **STATE VEGETABLE FARM VANDIPERIYAR** independently by **Esha Bharathan** for the partial fulfillment of the requirement for the award of degree of Bachelor of Vocational programmes in Agriculture Technology

  
Venugopal R

Farm Superintendent

**FARM SUPERINTENDENT  
STATE VEGETABLE FARM  
VANDIPERIYAR  
IDUKKI-685 533**



SURESH. V

Agriculture Officer

**AGRICULTURAL OFFICER  
STATE VEGETABLE FARM  
VANDIPERIYAR  
IDUKKI- 685 533**

PLACE: KANJIRAPALLY

DATE : 25/3/2022



**EFFECT OF MEDIA ON HARDENING OF TISSUE CULTURE AND MACRO PROPAGATED  
PLANTS OF BANANA AND THEIR PERFORMANCE EVALUATION IN THE FIELD**

A Project report submitted

By FAHED NAZAR

For partial fulfillment for the award of the degree of

B.Voc .Agriculture Technology



**ST.DOMINIC'S COLLEGE, KANJIRAPALLY**

**MAHATMA GANDHI UNIVERSITY**

**KOTTAYAM, KERALA**

**MARCH 2022**



## KERALA AGRICULTURAL UNIVERSITY

Banana Research Station, Kannara., Thrissur-680 652

E-mail : [brskannara@kau.in](mailto:brskannara@kau.in), Ph No. 0487 - 2699087

No: BRS (2) 820/21

Date: 19.03.2022

### Certificate

This is to certify that **Mr. FAHED NAZAR**, B.Voc Agriculture Technology student from St. Dominic's college, Kanjirappally, Kottayam, has successfully completed his 15 days project work entitled "**Effect Of Media On Hardening Of Tissue Culture And Macropropagated Plants Of Banana And Their Performance Evaluation In The Field**" under the guidance of **Dr. Manju P.R.**, Assistant Professor (Horticulture) during 2<sup>nd</sup> March to 19<sup>th</sup> March, 2022 at this station.

Dr. P. B. Pushpalatha

Professor & Head

Professor & Head  
Banana Research Station  
Kannara P. O.  
Thrissur - 680 652



# **AUTOMATED VERTICAL AND HORIZONTAL INTEGRATED FARMING SYSTEM**

**A PROJECT REPORT SUBMITTED**

**BY**

**HREDHULAL B**

*For partial fulfillment for the award of the degree of*

**B. VOC. AGRICULTURE TECHNOLOGY**



**ST. DOMINIC'S COLLEGE KANJIRAPALLY,**

**MAHATMA GANGHI UNIVERSITY,**

**KOTTAYAM, KERALA**

**MARCH 2022**



# Kerala Agricultural University



DIRECTORATE OF EXTENSION

CENTRAL TRAINING INSTITUTE

Mannuthy, Thrissur 680 651, Kerala, India

## Certificate

55114

This is to certify that

Aneethul B



has satisfactorily completed the

Training On Automated Vertical and

Horizontal Integrated Farming Systems.

conducted at

Hi-Tech Research and Training Unit, IF, VKA

from

03/03/2022 to 31/03/2022

Director

Head of Office



Director of Extension

# DISTRICT AGRICULTURE FARM

## KOZHA

A PROJECT REPORT SUBMITTED

BY

JESNA GEORGE

For partial fulfilment for the award of the degree of

B.Voc. Agriculture Technology



ST.DOMINIC'S COLLEGE KANJIRAPALLY,

MAHATMA GANDHI UNIVERSITY,

KOTTAYAM, KERALA

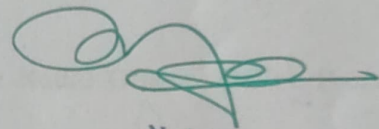
MARCH 2022

## CERTIFICATE

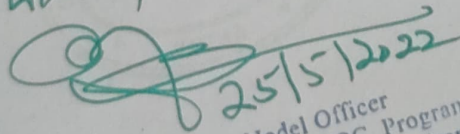
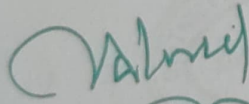
Certified that the project report is the record of project work done at DISTRICT  
AGRICULTURE FARM KOZHA independently by JESNA GEORGE for the partial fulfilment  
of the requirement for the award of degree of Bachelor of Vocational Programmes in Agriculture  
Technology

PLACE: KANJIRAPALLY

DATE: 30/08/2022



Nodel Officer  
Department of B.VOC. Programmes  
St. Dominic's College Kanjirappally



25/5/2022

Nodel Officer  
Department of B.VOC. Programmes  
St. Dominic's College Kanjirappally



**STANDERDISATION OF TECHNOLOGY FOR PRODUCTION OF VALUE ADDED  
PRODUCT FIG FROM TROPICAL FRUITS**

**An internship report submitted**

**By**

**JITHU GIJI**

*For partial fulfilment for the award of the degree of*

**B.Voc. Agriculture Technology**



**ST. DOMINIC'S COLLEGE KANJIRAPALLY,  
MAHATMA GANDHI UNIVERSITY,  
KOTTAYAM, KERALA**

**MARCH 2022**



## KERALA AGRICULTURAL UNIVERSITY

Banana Research Station, Kannara., Thrissur-680 652

E-mail : [brskannara@kau.in](mailto:brskannara@kau.in), Ph No. 0487 - 2699087

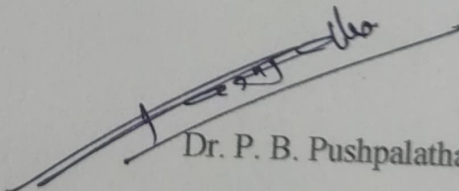
No: BRS (2) 820/21

Date: 19.03.2022

### Certificate

This is to certify that **Mr. JITHU GIJI**, B.Voc Agriculture Technology student from St. Dominic's college, Kanjirappally, Kottayam, has successfully completed his 15 days project work entitled "Standerdisation Of Technology For Production Of Value Added Product " Fig" From Tropical fruits" under the guidance of Dr. Manju P.R., Assistant Professor (Horticulture) during 2<sup>nd</sup> March to 19<sup>th</sup> March, 2022 at this station.



  
Dr. P. B. Pushpalatha

Professor & Head  
Professor & Head  
Banana Research Station  
Kannara P. O.  
Thrissur - 680 652

**STATE VEGETABLE FARM VANDIPERIYAR**

**INTERNSHIP REPORT SUBMITTED**

**BY**

**JUBIYA SEBASTIAN**

**FOR PARTIAL FULFILMENT FOR THE AWARD OF DEGREE  
OF**

**B.VOC. AGRICULTURE TECHNOLOGY**



**St. DOMINIC'S COLLEGE KANJIRAPALLY**

**MAHATMA GANDHI UNIVERSITY,**

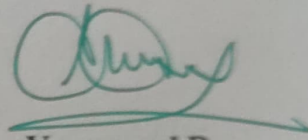
**KOTTAYAM, KERALA**

**MARCH 2022**



## CERTIFICATE

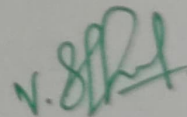
Certified that the Internship report is the record of internship work done at **STATE VEGETABLE FARM VANDIPERIYAR** independently by **Jubiya Sebastian** for the partial fulfillment of the requirement for the award of degree of Bachelor of Vocational programmes in Agriculture Technology



Venugopal R

Farm Superintendent

**FARM SUPERINTENDENT  
STATE VEGETABLE FARM  
VANDIPERIYAR  
IDUKKI-685 533**



SURESH. V

Agriculture Officer

**AGRICULTURAL OFFICER  
STATE VEGETABLE FARM  
VANDIPERIYAR  
IDUKKI- 685 533**

PLACE: KANJIRAPALLY

DATE : 25/03/2022

EVALUATION OF FRUIT CHARACTERS OF DIFFERENT JACKFRUIT VARIETIES

A project report submitted

By

LATHIKA PR

For partial fulfilment for the award of the degree of

B.Voc. Agriculture Technology



ST. DOMINIC'S COLLEGE KANJIRAPALLY,  
MAHATMA GANDHI UNIVERSITY, KOTTAYAM, KERALA



## KERALA AGRICULTURAL UNIVERSITY

*Banana Research Station, Kannara., Thrissur-680 652*

**E-mail : [brskannara@kau.in](mailto:brskannara@kau.in), Ph No. 0487 - 2699087**

No: BRS (2) 820/21

Date: 19.03.2022

### Certificate

This is to certify that **Ms. LATHIKA P. R.**, B.Voc Agriculture Technology student from St. Dominic's college, Kanjirappally, Kottayam, has successfully completed her 15 days project work entitled "**Evaluation of Fruit Characters of Different Jackfruit Varieties**" under the guidance of Dr. Manju P.R., Assistant Professor (Horticulture) during 2<sup>nd</sup> March to 19<sup>th</sup> March, 2022 at this station.

Dr. P. B. Pushpalatha

Professor & Head  
Professor & Head  
Banana Research Station,  
Kannara P. O.  
Thrissur - 680 652





# DISTRICT AGRICULTURE FARM KOZHA

A PROJECT REPORT SUBMITTED

BY

MARIYA SAJI

For partial fulfilment for the award of the degree  
of

B.Voc. Agriculture Technology



ST.DOMINIC'S COLLEGE KANJIRAPALLY,  
MAHATMA GANDHI UNIVERSITY,  
KOTTAYAM, KERALA

MARCH 2022

DEPARTMENT OF AGRICULTURE DEVELOPMENT AND FARMERS' WELFARE

**DISTRICT AGRICULTURAL FARM, KOZHA**

Kozha P.O, Kottayam District, Kerala 686633

Phone : 9383470721

dafkozha@gmail.com

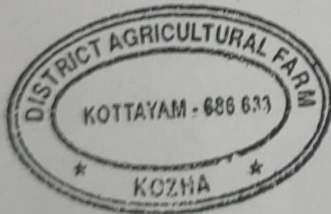
**CERTIFICATE**

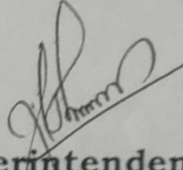
This is to certify that Mariya Saji, B Voc Agriculture Technology 6<sup>th</sup> Semester student of St. Dominic's College Kanjirapally have successfully completed the Project Work during the period from 02/03/2022 to 19/03/2022 and she has attended District Agricultural Farm Kozha for 15 days. They were trained in Protected cultivation, nursery and floriculture management, Seeds and Seedling production, propagation and plant protection methods of fruits, vegetables, spices, coconut, medicinal plants and commercial crops, compost production and farm labour management and also in office procedures.

This certificate is issued to produce before Nodal Officer, B Voc Programme St. Dominic's College Kanjirappally.

Kozha

24/03/2022



  
**Farm Superintendent**

**REGIMOL THOMAS**

Farm Superintendent

(Asst. Director of Agriculture)

Pen No: 604070

District Agricultural Farm

Kozha, Kottayam - 686 633

**STATE VEGETABLE FARM VANDIPERIYAR**

**INTERNSHIP REPORT SUBMITTED**

**BY**

**NIMISHA JOSEPH**

**FOR PARTIAL FULFILMENT FOR THE AWARD OF DEGREE  
OF**

**B.VOC. AGRICULTURE TECHNOLOGY**



**St. DOMINIC'S COLLEGE KANJIRAPALLY**

**MAHATMA GANDHI UNIVERSITY,**

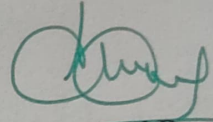
**KOTTAYAM, KERALA**

**MARCH 2022**



## CERTIFICATE

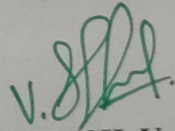
Certified that the Internship report is the record of internship work done at **STATE VEGETABLE FARM VANDIPERIYAR** independently by **Nimisha Joseph** for the partial fulfillment of the requirement for the award of degree of Bachelor of Vocational programmes in Agriculture Technology



Venugopal R

Farm Superintendent

**FARM SUPERINTENDENT  
STATE VEGETABLE FARM  
VANDIPERIYAR  
IDUKKI-685 533**



SURESH. V

Agriculture Officer

**AGRICULTURAL OFFICER  
STATE VEGETABLE FARM  
VANDIPERIYAR  
IDUKKI- 685 533**

PLACE: KANJIRAPALLY

DATE : 25/03/2022

# TECHNIQUES FOR MAKING DRY FLOWERS

By

**OSHIN K DAS**

## PROJECT REPORT

*Submitted in partial fulfillment of the  
requirement for the degree of*

**B.Voc Agriculture Technology**



**ST. DOMINIC'S COLLEGE KANJIRAPPALLY  
MAHATMA GANDHI UNIVERSITY,  
KOTTAYAM, KERALA**

**MARCH 2022**

## CERTIFICATE

This is to certify that the project work entitled "Techniques for making dry flowers " is a result of experiment carried out by Ms.Oshin K Das a student of B.Voc Agriculture Technology, St.Dominic's College, Kanjirappally, Kottayam, Kerala between 4<sup>th</sup> March to 31<sup>st</sup> March 2022 in Department of Floriculture and Landscape Architecture, College of Agriculture (KAU) Vellanikkara under my guidance.

*Shajma N.B*

Place : Thrissur

Dr.Shajma Nasfeesa Basheer

Date : 31-03-2022

Assistant Professor

*Valued*  
*on*  
*28/5/2022*

Nodel Officer  
Department of B.VOC. Programmes  
St. Dominic's College Kanjirappally





**EFFECT OF MEDIA ON HARDENING OF TISSUE CULTURE AND MACRO PROPAGATED  
PLANTS OF BANANA AND THEIR PERFORMANCE EVALUATION IN THE FIELD**

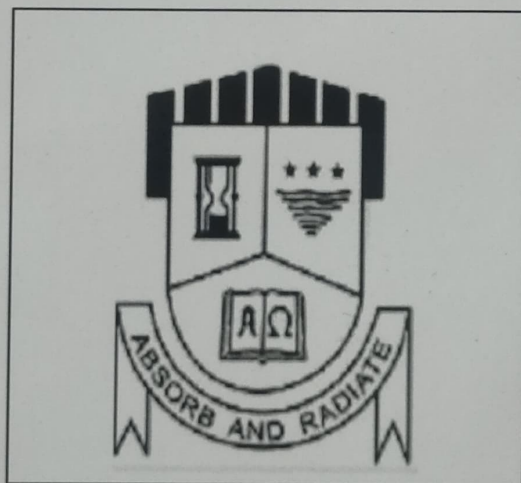
A Project report submitted

By

PRANAVIA D

For partial fulfillment for the award of the degree of

B.Voc .Agriculture Technology



**ST.DOMINIC'S COLLEGE, KANJIRAPALLY**

**MAHATMA GANDHI UNIVERSITY**

**KOTTAYAM, KERALA**

**MARCH 2022**



## KERALA AGRICULTURAL UNIVERSITY

Banana Research Station, Kannara., Thrissur-680 652

E-mail : [brskannara@kau.in](mailto:brskannara@kau.in), Ph No. 0487 - 2699087

No: BRS (2) 820/21

Date: 19.03.2022

### Certificate

This is to certify that Ms. PRANAVIA. D, B.Voc Agriculture Technology student from St. Dominic's college, Kanjirappally, Kottayam, has successfully completed her 15 days project work entitled "Effect Of Media On Hardening Of Tissue Culture And Macropropagated Plants Of Banana And Their Performance Evaluation In The Field" under the guidance of Dr. Manju P.R., Assistant Professor (Horticulture) during 2<sup>nd</sup> March to 19<sup>th</sup> March, 2022 at this station.



Dr. P. B. Pushpalatha

Professor & Head  
Professor & Head  
Banana Research Station  
Kannara P. O.  
Thrissur - 680 652



**DISTRICT SOIL TESTING LAB AND  
PARASITE BREEDING STATION , KOZHA,  
KOTTAYAM**

**A project report submitted**

**By**

**REEMA ANN REJI**

*For a partial fulfillment for the award of the degree of*

**B Voc AGRICULTURE TECHNOLOGY**



**ST. DOMINIC'S COLLEGE, KANJIRAPALLY**

**MAHATMA GANDHI UNIVERSITY,**

**KOTTAYAM, KERALA**

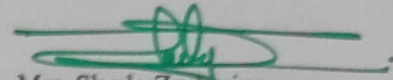
**MARCH, 2022**



## CERTIFICATE

This is to certify that, the project work held at District Soil Testing Lab and Parasite Breeding Station, Kozha, Kottayam is a result of experiments carried out by Reema Ann Reji, a student of B Voc. Agriculture Technology ,St. Dominic's College Kanjirapally, Kottayam, Kerala, between March 2 to March 19, 2022 under my guidance



  
Mrs. Sherly Zacharias

Assistant Soil Chemist

Kozha, Kottayam, Kerala.

Email ID : dstlkozha@gmail.com

# DISTRICT SOIL TESTING LAB AND PARASITE BREEDING STATION, KOZHA, KOTTAYAM

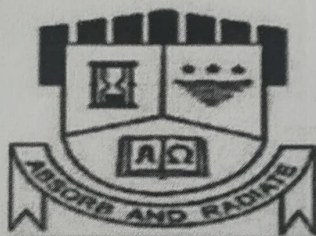
A project report submitted

By

**Riya James**

*For a partial fulfillment for the award of the degree of*

**B Voc AGRICULTURE TECHNOLOGY**



**ST. DOMINIC'S COLLEGE, KANJIRAPALLY**

**MAHATMA GANDHI UNIVERSITY,**

**KOTTAYAM, KERALA**

**MARCH, 2022**

## CERTIFICATE

This is to certify that, the project work held at District Soil Testing Lab and Parasite Breeding Station, Kozha, Kottayam is a result of experiments carried out by Riya James, a student of B Voc. Agriculture Technology ,St. Dominic's College Kanjirapally, Kottayam, Kerala, between March 2 to March 19 2022 under my guidance

Place : Kanjirapally

Date : 19-03-2022

Kozha (F.U ) 686 633

Date



  
Mrs. Sherly zacharias

Assistant soil chemist

Kozha, Kottayam, Kerala.

Email ID : dstlkozha@gmail.com



**EVALUATION OF PACKAGING AND STORAGE  
OF MINIMALLY PROCESSED YARD LONG BEAN**

*(Vigna unguiculata spp. sesquipedalis. L)*

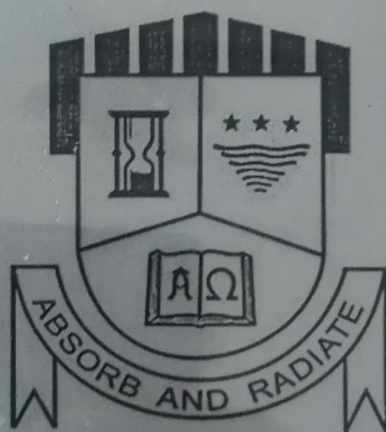
**A PROJECT REPORT SUBMITTED**

**BY**

**SANDRA SURESH**

*For partial fulfillment for the award of the degree of*

**B. VOC. AGRICULTURE TECHNOLOGY**



**ST. DOMINIC'S COLLEGE KANJIRAPALLY,  
MAHATMA GANGHI UNIVERSITY,  
KOTTAYAM, KERALA**

**MARCH 2022**



KERALA AGRICULTURAL UNIVERSITY  
COLLEGE OF AGRICULTURE, VELLANIKKARA

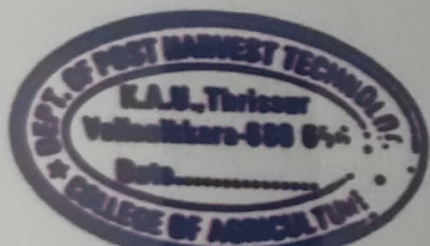
Professor & Head  
Department of Post harvest Technology  
Vellanikkara, Thrissur, Kerala – 680656.

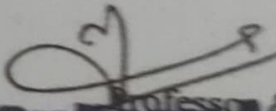
Phone: 0487-2370822\*8381

E-mail: cohptech@kau.in

CERTIFICATE

This is to certify that Ms. Sandra Suresh, B.Voc Agricultural Technology, Student from St. Dominic's College Kanjirappally, Kottayam, has successfully completed her 25 days project work entitled "Evaluation of packaging and storage of minimally processed yard long bean (*Vigna unguiculata ssp.sesquipedalis.L*)", under the guidance of Dr. Anupama T.V, Assistant Professor (Horticulture) during 7<sup>th</sup> March to 31<sup>st</sup> March 2022 in this Department.



  
Professor & Head  
Dept. of Post Harvest Technology  
College of Agriculture  
Kerala Agricultural University

**STATE VEGETABLE FARM VANDIPERIYAR**

**INTERNSHIP REPORT SUBMITTED**

**BY**

**SIBIYA**

**FOR PARTIAL FULFILMENT FOR THE AWARD OF DEGREE  
OF**

**B.VOC. AGRICULTURE TECHNOLOGY**



**St. DOMINIC'S COLLEGE KANJIRAPALLY**

**MAHATMA GANDHI UNIVERSITY,**

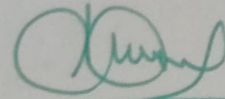
**KOTTAYAM, KERALA**

**MARCH 2022**



## CERTIFICATE

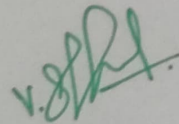
Certified that the Internship report is the record of internship work done at STATE VEGETABLE FARM VANDIPERIYAR independently by Sibiya for the partial fulfillment of the requirement for the award of degree of Bachelor of Vocational programmes in Agriculture Technology



Venugopal R

Farm Superintendent

**FARM SUPERINTENDENT  
STATE VEGETABLE FARM  
VANDIPERIYAR  
IDUKKI-685 533**



SURESH. V

Agriculture Officer

**AGRICULTURAL OFFICER  
STATE VEGETABLE FARM  
VANDIPERIYAR  
IDUKKI- 685 533**

PLACE: KANJIRAPALLY

DATE : 25/03/2022

**STATE VEGETABLE FARM VANDIPERIYAR**

**INTERNSHIP REPORT SUBMITTED**

**BY**

**SNEHAMOL SHAJI**

**FOR PARTIAL FULFILMENT FOR THE AWARD OF DEGREE  
OF**

**B.VOC. AGRICULTURE TECHNOLOGY**



**St. DOMINIC'S COLLEGE KANJIRAPALLY**

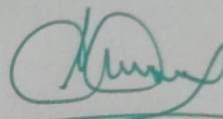
**MAHATMA GANDHI UNIVERSITY,**

**KOTTAYAM, KERALA**

**MARCH 2022**

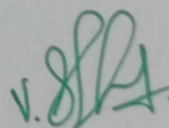
## CERTIFICATE

Certified that the Internship report is the record of internship work done at **STATE VEGETABLE FARM VANDIPERIYAR** independently by **Snehamol Shaji** for the partial fulfillment of the requirement for the award of degree of Bachelor of Vocational programmes in Agriculture Technology



Venugopal R

Farm Superintendent  
**FARM SUPERINTENDENT**  
**STATE VEGETABLE FARM**  
**VANDIPERIYAR**  
**IDUKKI-685 533**



SURESH. V

Agriculture Officer

PLACE: KANJIRAPALLY

DATE : 25/03/2022

**AGRICULTURAL OFFICER**  
**STATE VEGETABLE FARM**  
**VANDIPERIYAR**  
**IDUKKI- 685 533**



**EFFECT OF MEDIA ON HARDENING OF TISSUE CULTURE AND MACRO PROPAGATED  
PLANTS OF BANANA AND THEIR PERFORMANCE EVALUATION IN THE FIELD**

A Project report submitted

By TIBIN T B

For partial fulfillment for the award of the degree of  
B.Voc .Agriculture Technology



**ST.DOMINIC'S COLLEGE, KANJIRAPALLY**

**MAHATMA GANDHI UNIVERSITY**

**KOTTAYAM, KERALA**

**MARCH 2022**



## KERALA AGRICULTURAL UNIVERSITY

Banana Research Station, Kannara., Thrissur-680 652

E-mail : [brskannara@kau.in](mailto:brskannara@kau.in), Ph No. 0487 - 2699087

No: BRS (2) 820/21

Date: 19.03.2022

### Certificate

This is to certify that Mr.TIBIN T.B, B.Voc Agriculture Technology student from St. Dominic's college, Kanjirappally, Kottayam, has successfully completed his 15 days project work entitled "Effect Of Media On Hardening Of Tissue Culture And Macropropagated Plants Of Banana And Their Performance Evaluation In The Field" under the guidance of Dr. Manju P.R., Assistant Professor (Horticulture) during 2<sup>nd</sup> March to 19<sup>th</sup> March, 2022 at this station.



Dr. P. B. Pushpalatha

Professor & Head

Professor & Head  
Banana Research Station,  
Kannara P. O.  
Thrissur - 680 652

ICAR – KRISHI VIGYAN KENDRA, ALAPPUZHA

A PROJECT REPORT

*Submitted by*

VISHNUPRIYA BAIJU

*IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE  
DEGREE OF B. VOC AGRICULTURAL TECHNOLOGY*



ST. DOMINIC'S COLLEGE KANJIRAPALLY

MAHATMA GANDHI UNIVERSITY

KOTTAYAM, KERALA

MARCH 2022





भा.कृ.अ.प - कृषि विज्ञान केन्द्र - आलप्पुषा  
ICAR - KRISHI VIGYAN KENDRA -ALAPPUZHA  
ICAR - CENTRAL PLANTATION CROPS RESEARCH INSTITUTE

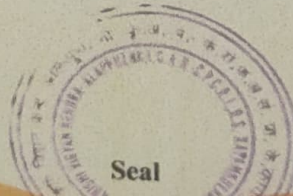


Regional Station, Kayamkulam, Krishnapuram-690 533, Kerala

### CERTIFICATE

This is to certify that Mr./Mrs./Ms. Vishnupriya Bajju, Kurasseritharayil (H), Kasinilam P.O  
Mundakayam, Kottayam has attended the <sup>internship</sup> ~~training~~ programme on Mushroom cultivation Techniques  
and Value addition of agriculture produce organized by the ICAR - Krishi Vigyan Kendra - Alappuzha, in collaboration  
with/~~headed by~~ St. Dominic's college, Kanjirappally on/from 02.03.2022 to 19.03.2022  
(15 days)

19.03.2022.  
Kayamkulam



Seal



*Biogenic Labs*

16/338, MULAKARA BUILDING, NETTOOR  
P.O., COCHIN, KERALA, INDIA - 682040

info@biogeniclabs.in


Ph: +91 484 2702900/01, Mob: +91 7025194385

05/04/2022

Ernakulam

CERTIFICATE

This is to certify that Mr.....ADITHYAN R.....pursuing B.Voc Agro Food Processing from St Dominics's college Kanjirappally, Kottayam has Successfully completed the project on the topic...."A STUDY OF QUALITY PARAMETERS ON LOCALLY AVAILABLE INDIAN YOGHURT IN COMPARISON TO PACKED YOGHURT WITH RESPECT TO SHELF LIFE".....held from 02/03/2022-31/03/2022 at Biogenic labs 16/338,Mulakkara Building,MarketRoad,Nettoor P.O,Cochin,Kerala-682040

  
Sangeeth K.S  
Lab Manager  
Biogenic labs,Nettoor





## HIGHRANGE FOODS (P) LTD

Panamattam 686522, Kottayam Kerala India  
Phone: 9946107155  
Email: Email: hrp.manager@lazza.co.in  
<https://lazza.co.in>



## CERTIFICATE

This is to certify that the work entitled "*Quality Assessment of Different Milk Brands Available in Kottayam District*" is a bona fide project work done by Aiswarya Prasad, student of St. Dominic's college Kanjirappally, in partial fulfilment of the degree in B.Voc Agro Food Processing during the period of April 1<sup>st</sup> to 30<sup>th</sup> 2022 under my guidance and supervision.

Manager

SREEJITH S

Supervision

SANGEETHA G NAIER

Production supervisor







# SCIRE SCIENCE R & D LABORATORY

BioNest-KRIBS, Kerala Technology Innovation Zone, Opp. Govt. Medical College, Kochi- 682035, India.

Phone: +91-(0) 4842972240

E-mail: [info@scire.co.in](mailto:info@scire.co.in)

Web: [www.scire.co.in](http://www.scire.co.in)

U74999KL2016OP04266

01-04-2022

Ernakulam

## CERTIFICATE

This is to certify that the work entitled "**Formulation, Development and Characterization of Healthy Gummy Jellies Employing Aloe Vera Gel**" is a bona fide project work done by **Akhila Vinod**, student of **St. Dominic's College, Kanjirappally**, in partial fulfillment of the Degree in B.Voc Agro Food Processing, during the period of 2<sup>nd</sup> March 2022 to 1<sup>st</sup> April 2022 under my guidance and supervision.

**Dr. Jikku Jose**  
Research Head and Director  
Scire Science Pvt. Ltd





**Kerala Veterinary and Animal Sciences University**  
**College of Veterinary and Animal Sciences, Mannuthy**  
**Meat Technology Unit & Department of Livestock Products**  
**Technology**  
**Mannuthy-Post, Thissur, Kerala- 680 651, India**


**Dr. Irshad A., M.V.Sc., MBA, PhD**  
Assistant Professor  
Department of Livestock Products and  
Technology & Meat Technology Unit

Phone (Office) :0487 2370956  
Mobile: 09895213500 / 7907789992  
Email.: irshad@kvasu.ac.in  
irshad2k6@gmail.com

Date: 31.03.2022

**CERTIFICATE**

This is to certify that the investigation entitled “**DEVELOPMENT AND QUALITY EVALUATION OF SHELF STABLE PORK ADA**” submitted by **ALBIN VARGHESE (Reg. No. 190041001412)** during the period of March 2022, in partial fulfilment for the award of the degree of Bachelor of B.voc Agro-Food Processing from St. Dominic’s College Kanjirappally, Mahatma Gandhi University, Kottayam, Kerala, is the result of an investigation carried out by him in the Department of Livestock Products Technology and Meat Technology Unit, at College of Veterinary and Animal Sciences, Mannuthy, Thrissur, under the guidance of Dr. Irshad A.

  
Dr. B Sunil  
Professor & Head  
Department of Livestock Products Technology  
Meat Technology Unit, Mannuthy

  
Dr. IRSHAD A., M.V.Sc., MBA, Ph.D.  
VCI Reg. No: 5301  
Assistant Professor  
Dept. of Livestock Products Technology  
& Meat Technology Unit  
College of Veterinary & Animal Sciences  
Mannuthy - 680 651, Thrissur, Kerala

Place: Thrissur  
Date: 31.03.2022



**Kerala Veterinary and Animal Sciences University**  
**College of Veterinary and Animal Sciences, Mannuthy**  
**Meat Technology Unit & Department of Livestock Products**  
**Technology**  
**Mannuthy-Post, Thissur, Kerala- 680 651, India**


**Dr. Irshad A., M.V.Sc., MBA, PhD**  
Assistant Professor  
Department of Livestock Products and  
Technology & Meat Technology Unit

Phone (Office) :0487 2370956  
Mobile: 09895213500 / 7907789992  
Email.: irshad@kvasu.ac.in  
irshad2k6@gmail.com


Date: 31.03.2022

**CERTIFICATE**

This is to certify that the investigation entitled “**DEVELOPMENT AND QUALITY EVALUATION OF CHICKEN SOUP INCORPORATED WITH CHICKEN MEAT POWDER**” submitted by **ALFIYA SHAHID (Reg. NO: 190041001413)** during the period of March 2022, in partial fulfilment for the award of the degree of Bachelor of B.voc Agro-Food Processing from St. Dominic’s College Kanjirappally, Mahatma Gandhi University, Kottayam, Kerala, is the result of an investigation carried out by her in the Department of Livestock Products Technology and Meat Technology Unit, at College of Veterinary and Animal Sciences, Mannuthy, Thrissur, under the guidance of Dr. Irshad A.

  
Dr. B Sunil  
Professor & Head  
Department of Livestock Products Technology  
Meat Technology Unit, Mannuthy

Place: Thrissur  
Date: 31.03.2022

  
Dr. IRSHAD A., M.V.Sc., MBA, Ph.D.  
VCI Reg. No: 5301  
Assistant Professor  
Dept. of Livestock Products Technology  
& Meat Technology Unit  
College of Veterinary & Animal Sciences  
Mannuthy - 680 651, Thrissur, Kerala



20/04/2022

### CERTIFICATE

This is to certify that the dissertation entitled “**NUTRITIONAL QUALITY EVALUATION OF NONFRIED COCONUT CHIPS**” is a bonafide record of the original research work done by **Mr. Amareesh Soman**, St. Dominic’s College Kanjirapally in partial fulfillment of the requirement for the award of Degree of **B.Voc Agro Food Processing** during the period of his study in the Department of Quality Control, under my direct supervision and guidance.



**Dr. K. S. Rishad**  
Technical Director)



**KERALA STATE POLLUTION CONTROL BOARD (KSPCB) APPROVED**

3<sup>rd</sup> FLOOR | CUSAT ROAD | SOUTH KALAMASSERY | COCHIN-22 | KERALA |  
SOUTH INDIA

Website: [www.albiotechnologies.com](http://www.albiotechnologies.com) | Email: [albiotechnologies@gmail.com](mailto:albiotechnologies@gmail.com)



*Biogenic Labs*

16/338, MULAKARA BUIDLING, NETTOOR  
P.O., COCHIN, KERALA, INDIA - 682040

info@biogeniclabs.in

Ph: +91 484 2702900/01, Mob: +91 7025194385

05/04/2022

Ernakulam

CERTIFICATE

This is to certify that Mr.....ANAND K.S.....pursuing B.Voc Agro Food Processing from St Dominics's college Kanjirappally, Kottayam has Successfully completed the project on the topic...."A STUDY ON QUALITY ANALYSIS OF WELL WATER ADJACENT TO DIFFERENT ZONES OF PERIYAR RIVER".....held from 02/03/2022-31/03/2022 at Biogenic labs 16/338,Mulakkara Building,MarketRoad,Nettoor P.O,Cochin,Kerala-682040

Sangeeth K.S  
Lab Manager  
Biogenic labs,Nettoor





**Kerala Veterinary and Animal Sciences University**  
**College of Veterinary and Animal Sciences, Mannuthy**  
**Meat Technology Unit & Department of Livestock Products**  
**Technology**  
**Mannuthy-Post, Thissur, Kerala- 680 651, India**


**Dr. Irshad A., M.V.Sc., MBA, PhD**  
Assistant Professor  
Department of Livestock Products and  
Technology & Meat Technology Unit

Phone (Office) :0487 2370956  
Mobile: 09895213500 / 7907789992  
Email.: irshad@kvasu.ac.in  
irshad2k6@gmail.com


Date: 31.03.2022

**CERTIFICATE**

This is to certify that the investigation entitled “**DEVELOPMENT AND QUALITY EVALUATION OF BEEF INCORPORATED SNACK (MURUKKU)**” submitted by **ANJITHA MARIA JOSE (Reg. NO: 190041001416)** during the period of March 2022, in partial fulfilment for the award of the degree of Bachelor of B.voc Agro-Food Processing from St. Dominic’s College Kanjirappally, Mahatma Gandhi University, Kottayam, Kerala, is the result of an investigation carried out by her in the Department of Livestock Products Technology and Meat Technology Unit, at College of Veterinary and Animal Sciences, Mannuthy, Thrissur, under the guidance of Dr. Irshad A.

  
Dr. B Sunil  
Professor & Head  
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Place: Thrissur  
Date: 31.03.2022

  
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### CERTIFICATE

This is to certify that the work entitled “**Studies on Extraction Process, Standardization and Organoleptic Analysis of Essential Oil from Orange (*Citrus x sinensis*)**” is a bona fide project work done by **Anju Mol Babu**, student of St. Dominic’s College, Kanjirappally, in partial fulfillment of the Degree in B.Voc Agro Food Processing, during the period of 2<sup>nd</sup> March 2022 to 1<sup>st</sup> April 2022 under my guidance and supervision.

**Dr. Jikku Jose**  
**Research Head and Director**  
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This is to certify that the work entitled “A Study on Sensory, Nutritive, Phytochemical and Antioxidant Properties of Cookies Incorporated with *Moringa olifera*” is a bona fide project work done by Ansu Joseph, student of St. Dominic’s College, Kanjirappally, in partial fulfillment of the Degree in B.Voc Agro Food Processing, during the period of 2<sup>nd</sup> March 2022 to 1<sup>st</sup> April 2022 under my guidance and supervision.

**Dr. Jikku Jose**  
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**CERTIFICATE**

This is to certify that the investigation entitled “**QUALITY CHARACTERISTICS OF DRIED BEEF LIVER POWDER PROCESSED BY CONVENTIONAL DRYING**” submitted by **ANTU SHAJI (Reg. No: 190041001419)** during the period of March 2022, in partial fulfilment for the award of the degree of Bachelor of B.voc Agro-Food Processing from St. Dominic’s College Kanjirappally, Mahatma Gandhi University, Kottayam, Kerala, is the result of an investigation carried out by him in the Department of Livestock Products Technology and Meat Technology Unit, at College of Veterinary and Animal Sciences, Mannuthy, Thrissur, under the guidance of Dr. Irshad A.

  
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**CERTIFICATE**

This is to certify that the investigation entitled “**COMPARATIVE EVALUATION OF QUALITY AND SENSORY PARAMETERS OF HALWA INCORPORATED WITH BEEF AND CARROT**” submitted by **ANUMOL JOSEPH (Reg. No.190041001420)** during the period of March 2022, in partial fulfilment for the award of the degree of Bachelor of B.voc Agro-Food Processing from St. Dominic’s College Kanjirappally, Mahatma Gandhi University, Kottayam, Kerala, is the result of an investigation carried out by her in the Department of Livestock Products Technology and Meat Technology Unit, at College of Veterinary and Animal Sciences, Mannuthy, Thrissur, under the guidance of Dr. Irshad A.

  
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**CERTIFICATE**

This is to certify that the dissertation entitled "PREPARATION AND NUTRITIONAL QUALITY EVALUATION OF COCONUT MILK INCORPORATED YOGHURT" is a bonafide record of the original research work done by Mr. Anumon S, St. Dominic's College Kanjirapally in partial fulfillment of the requirement for the award of Degree of B.Voc Agro Food Processing during the period of his study in the Department of Quality Control, under my direct supervision and guidance.



Dr. K. S. Rishad  
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Date: 31.03.2022

**CERTIFICATE**

This is to certify that the investigation entitled “**DEVELOPMENT AND QUALITY EVALUATION OF PORK SPREAD**” submitted by **ARATHI K. (Reg. NO: 190041001422)** during the period of March 2022, in partial fulfilment for the award of the degree of Bachelor of B.voc Agro-Food Processing from St. Dominic’s College Kanjirappally, Mahatma Gandhi University, Kottayam, Kerala, is the result of an investigation carried out by her in the Department of Livestock Products Technology and Meat Technology Unit, at College of Veterinary and Animal Sciences, Mannuthy, Thrissur, under the guidance of Dr. Irshad A.

  
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## CERTIFICATE

This is to certify that the work entitled “**Formulation and Evaluation of *Linum usitatissimum* Jelly**” is a bona fide project work done by **Aromal P Madhu**, student of St. Dominic’s College, Kanjirappally, in partial fulfillment of the Degree in B.Voc Agro Food Processing, during the period of 2<sup>nd</sup> March 2022 to 1<sup>st</sup> April 2022 under my guidance and supervision.

**Dr. Jikku Jose**  
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This is to certify that the dissertation entitled “**FORMULATION AND CHARACTERIZATION OF ENERGY BAR USING NUTS AND GRAINS AS EMERGENCY FOOD**” is a bonafide record of the original research work done by **Ms.Asna Sakeer**, St. Dominic’s College Kanjirapally in partial fulfillment of the requirement for the award of Degree of **B.Voc Agro Food Processing** during the period of her study in the Department of Quality Control, under my direct supervision and guidance.



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**CERTIFICATE**

This is to certify that the investigation entitled “**A COMPARATIVE STUDY ON THE PHYSICO CHEMICAL AND SENSORY ATTRIBUTES OF SAUSAGE PREPARED FROM CHICKEN, QUAIL AND DUCK MEAT**” submitted by **ASWANI NAIR (Reg. NO: 190041001425)** during the period of March 2022, in partial fulfilment for the award of the degree of Bachelor of B.voc Agro-Food Processing from St. Dominic’s College Kanjirappally, Mahatma Gandhi University, Kottayam, Kerala, is the result of an investigation carried out by her in the Department of Livestock Products Technology and Meat Technology Unit, at College of Veterinary and Animal Sciences, Mannuthy, Thrissur, under the guidance of Dr. Irshad A.

  
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This is to certify that the dissertation entitled “**NUTRIENT ENRICHED BREAD FOR LACTATING MOTHERS FROM SECONDARY EDIBLE PARTS OF FRUITS AND VEGITABLES**” is a bonafide record of the original research work done by **Ms. Aswathy Jayachandran**, St. Dominic’s College Kanjirapally in partial fulfillment of the requirement for the award of Degree of **B.Voc Agro Food Processing** during the period of her study in the Department of Quality Control, under my direct supervision and guidance.



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This is to certify that the investigation entitled “**DEVELOPMENT AND QUALITY ASSESSMENT OF ENROBED CHICKEN FEET FINGERS**” submitted by **BABITH S BABU (Reg. No.190041001427)** during the period of March 2022, in partial fulfilment for the award of the degree of Bachelor of B.voc Agro-Food Processing from St. Dominic’s College Kanjirappally, Mahatma Gandhi University, Kottayam, Kerala, is the result of an investigation carried out by him in the Department of Livestock Products Technology and Meat Technology Unit, at College of Veterinary and Animal Sciences, Mannuthy, Thrissur, under the guidance of Dr. Irshad A.

  
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This is to certify that the investigation entitled “**DEVELOPMENT AND SENSORY QUALITY EVALUTAION OF READY TO EAT SAMOSA INCOPORATED WITH PORK AND VEGETABLE**” submitted by BIPINA B (Reg. No.190041001428) during the period of March 2022, in partial fulfilment for the award of the degree of Bachelor of B.voc Agro-Food Processing from St. Dominic’s College Kanjirappally, Mahatma Gandhi University, Kottayam, Kerala, is the result of an investigation carried out by her in the Department of Livestock Products Technology and Meat Technology Unit, at College of Veterinary and Animal Sciences, Mannuthy, Thrissur, under the guidance of Dr. Irshad A.

  
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This is to certify that the investigation entitled “**DEVELOPMENT AND QUALITY EVALUATION OF KUZHALAPPAM (TRADITIONAL KERALA SNACK) INCORPORATED WITH BEEF**” submitted by **BONNY JOHNSON (Reg. No.190041001429)** during the period of March 2022, in partial fulfilment for the award of the degree of Bachelor of B.voc Agro-Food Processing from St. Dominic’s College Kanjirappally, Mahatma Gandhi University, Kottayam, Kerala, is the result of an investigation carried out by her in the Department of Livestock Products Technology and Meat Technology Unit, at College of Veterinary and Animal Sciences, Mannuthy, Thrissur, under the guidance of Dr. Irshad A.

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## CERTIFICATE

This is to certify that the work entitled "**Nutritional Assessment of Diet Bar Prepared from *Avena Sativa* and *Pennisetum glaucum***" is a bona fide project work done by **Divya Thomas**, student of St. Dominic's College, Kanjirappally, in partial fulfillment of the Degree in B.Voc Agro Food Processing, during the period of 2<sup>nd</sup> March 2022 to 1<sup>st</sup> April 2022 under my guidance and supervision.

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This is to certify that the work entitled "**Feasibility of Bioethanol Production from *Saccharum officinarum* and *Musa paradisiaca***" is a bona fide project work done by **Farsana Shamsudeen**, student of St. Dominic's College, Kanjirappally, in partial fulfillment of the Degree in B.Voc Agro Food Processing, during the period of 2<sup>nd</sup> March 2022 to 1<sup>st</sup> April 2022 under my guidance and supervision.

**Dr. Jikku Jose**  
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This is to certify that the dissertation entitled “**FORMULATION AND EVALUATION OF SEED COOKIE FOR DIABETIC PATIENTS FROM PALM SUGAR AND HEALTHY SEEDS**” is a bonafide record of the original research work done by **Ms. Faseeja Beevi K J**, St. Dominic’s College Kanjirapally in partial fulfillment of the requirement for the award of Degree of **B.Voc Agro Food Processing** during the period of her study in the Department of Quality Control, under my direct supervision and guidance.



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This is to certify that the work entitled “**Potential of Aloe vera Gel Based Edible Coating to Improve Shelf Life of *Psidium guajava***” is a bona fide project work done by **Gopika Pavithran**, student of St. Dominic’s College, Kanjirappally, in partial fulfillment of the Degree in B.Voc Agro Food Processing, during the period of 2<sup>nd</sup> March 2022 to 1<sup>st</sup> April 2022 under my guidance and supervision.

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This is to certify that Mr.....JASEEL T.N.....pursuing B.Voc Agro Food Processing from St Dominics's college Kanjirappally, Kottayam has Successfully completed the project on the topic...".QUALITY COMPARISON OF BLACK PEPPER WHOLE COLLECTED FROM DIFFERENT AREAS OF KERALA".....held from 02/03/2022-31/03/2022 at Biogenic labs 16/338,Mulakkara Building,MarketRoad,Nettoor P.O,Cochin,Kerala-682040

Sangeeth K.S  
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Sangeeth K.S  
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### CERTIFICATE

This is to certify that the work entitled “**Herbal Tea Formulation Using *Mentha spicata* and its Sensory and Phytochemical Analysis**” is a bona fide project work done by **Mahima K R**, student of St. Dominic’s College, Kanjirappally, in partial fulfillment of the Degree in B.Voc Agro Food Processing, during the period of 2<sup>nd</sup> March 2022 to 1<sup>st</sup> April 2022 under my guidance and supervision.

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Sangeeth K.S  
Lab Manager  
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**CERTIFICATE**

This is to certify that the dissertation entitled “**MEMORY BOOSTING JAM PREPARED FROM BRAHMI**” is a bonafide record of the original research work done by **Ms. Nawren Fathima**, St. Dominic’s College Kanjirapally in partial fulfillment of the requirement for the award of Degree of **B.Voc Agro Food Processing** during the period of her study in the Department of Quality Control, under my direct supervision and guidance.



**Dr. K. S. Rishad**  
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**CERTIFICATE**

This is to certify that the investigation entitled "**DEVELOPMENT AND QUALITY ASSESSMENT OF SPICE MIX FOR CHICKEN 65**" submitted by **PRINCE FRANCIS (Reg. No.190041001443)** during the period of March 2022, in partial fulfilment for the award of the degree of Bachelor of B.voc Agro-Food Processing from St. Dominic's College Kanjirappally, Mahatma Gandhi University, Kottayam, Kerala, is the result of an investigation carried out by him in the Department of Livestock Products Technology and Meat Technology Unit, at College of Veterinary and Animal Sciences, Mannuthy, Thrissur, under the guidance of Dr. Irshad A.

  
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Place: Thrissur  
Date: 31.03.2022



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CERTIFICATE

This is to certify that Ms.....PRIYANKA V.P.....pursuing B.Voc Agro Food Processing from St Dominics's college Kanjirappally, Kottayam has Successfully completed the project on the topic....."QUALITY COMPARISON OF DIFFERENT BRANDS OF ATTA AVAILABLE IN LOCAL MARKET".....held from 02/03/2022-31/03/2022 at Biogenic labs 16/338,Mulakkara Building, MarketRoad, Nettoor P.O,Cochin,Kerala-682040

Sangeeth K.S  
Lab Manager  
Biogenic labs, Nettoor







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Sangeeth K.S  
Lab Manager  
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20/04/2022

## CERTIFICATE

This is to certify that the dissertation entitled “**FORMULATION AND EVALUATION OF IRON RICH CUP CAKES FOR ANAEMIC ADOLESCENT FROM GREEN LEAFY VEGETABLES**” is a bonafide record of the original research work done by **Ms. Resiya P Shaji**, St. Dominic’s College Kanjirapally in partial fulfillment of the requirement for the award of Degree of **B.Voc Agro Food Processing** during the period of her study in the Department of Quality Control, under my direct supervision and guidance.



**Dr. K. S. Rishad**  
(Technical Director)

**KERALA STATE POLLUTION CONTROL BOARD (KSPCB) APPROVED**

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## CERTIFICATE

This is to certify that the work entitled “**Standardisation and Quality Evaluation of Vitamin C Enriched *Fragaria ananassa* and *Actinidia deliciosa***” is a bona fide project work done by **Thejas Anand S**, student of St. Dominic’s College, Kanjirappally, in partial fulfillment of the Degree in B.Voc Agro Food Processing, during the period of 2<sup>nd</sup> March 2022 to 1<sup>st</sup> April 2022 under my guidance and supervision.

**Dr. Jikku Jose**  
**Research Head and Director**  
**Scire Science Pvt. Ltd**







**Kerala Veterinary and Animal Sciences University**  
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**CERTIFICATE**

This is to certify that the investigation entitled “**DEVELOPMENT AND QUALITY EVALUATION OF SHELF STABLE BEEF ADA**” submitted by **VIJAYALAKSHMI R. (Reg. NO: 190041001451)** during the period of March 2022, in partial fulfilment for the award of the degree of Bachelor of B.voc Agro-Food Processing from St. Dominic’s College Kanjirappally, Mahatma Gandhi University, Kottayam, Kerala, is the result of an investigation carried out by her in the Department of Livestock Products Technology and Meat Technology Unit, at College of Veterinary and Animal Sciences, Mannuthy, Thrissur, under the guidance of Dr. Irshad A.

  
Dr. B Sunil  
Professor & Head  
Department of Livestock Products Technology  
Meat Technology Unit, Mannuthy

Place: Thrissur  
Date: 31.03.2022

  
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