



# CRITERION 1

## CURRICULAR ASPECTS

1.3.2: Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

ST.MARY'S COLLEGE  
SULTHAN BATHERY,  
WAYANAD, KERALA-673592

**ST.MARY'S COLLEGE, SULTHAN BATHERY**  
**DEPARTMENT OF BOTANY**  
**2017-2018**



**CHARACTERIZATION OF SOME COMMON MEMBERS  
OF THE FAMILY LAMIACEAE OF KUPPADY HILLS ON  
THE BASIS OF THE MORPHOLOGY OF TRICHOMES**



**Dissertation submitted to the University of Calicut in partial fulfillment  
of the requirement for the degree of Bachelor of Science in Botany**

**Name: .....**

**Reg.No: .....**



# CERTIFICATE

This is to certify that the dissertation entitled "**Characterization of some common members of the family Lamiaceae of Kuppady hills on the basis of the morphology of trichomes**" submitted to the University of Calicut in the partial fulfilment of the requirement for the award of the degree of Bachelor of Science in Botany is a record of original research done by ..... during the period of her study in the Department of Botany, St. Mary's college Sulthan Bathery, under my supervision and guidance.

*B. Thomas*  
Mrs. Rachel Thomas  
Department of Botany  
St. Mary's College  
Sulthan Bathery

*B. Thomas*  
Mrs. Rachel Thomas *6/4/2018*  
Head of the Department  
Department of Botany  
St. Mary's College  
Sulthan Bathery-673 592  
Sulthan Bathery

Examiners:-

- 1.....
- 2.....

ST.MARY'S COLLEGE, SULTHAN BATHERY  
DEPARTMENT OF BOTANY

2017-2018



LEAFY VEGETABLES USED AMONG THE COMMUNITY  
KATTUNAIKKANS OF MUTHANGA COLONY



Dissertation submitted to the University of Calicut in partial fulfilment of the requirement for the degree of Bachelor of Science in Botany.

Name:.....

Reg.No:.....



**DEPARTMENT OF BOTANY ST.MARYS COLLEGE**  
**SULTHAN BATHERY**

**CERTIFICATE**

This is to certify that the dissertation entitled "LEAFY VEGETABLES USED AMONG THE COMMUNITY KATTUNAYKKAN OF MUTHANGA COLONY" submitted to the University of Calicut in partial fulfilment of the requirement for the award of the Degree of Bachelor of Science in Botany is a record of original research done by .....during the period of his study in the Department of Botany, St, Mary's College, SulthanBathery, under my supervision and guidance.

Ms.Neethu K V  
Department of Botany  
St. Mary's College  
SulthanBathery

Mrs. Rachel Thomas  
Head of the Department  
St. Mary's College  
SulthanBathery

Examiners: -

1).....

2).....

**ST. MARY'S COLLEGE, SULTHAN BATHERY**  
**DEPARTMENT OF BOTANY**

**2017-2018**



**ETHNIC USES OF SOME PLANTS USED BY KURUMA'S OF  
MUTHANGA COLONY OF WAYANAD DISTRICT**



**Dissertation submitted to the University of Calicut in partial fulfillment of  
the requirement for the degree of Bachelor of Science in Botany**

**Name:**

**Reg No:**



**DEPARTMENT OF BOTANY**  
**ST. MARY'S COLLEGE, SULTHAN BATHERY**

**CERTIFICATE**

This to certify that the dissertation entitled "ETHNIC USES OF SOME PLANTS USED BY KURUMA'S OF MUTHANGA COLONY OF WAYANAD DISTRICT" submitted to the University of Calicut in partial fulfillment of the requirements for the award of the Degree of Bachelor of Science in Botany is a record of original research done by SHILPA V.S, SNEHA, AKHIL K GEORGE, ELDHO CHERIYAN, ELWIN MATHEW and VIBINKUMAR N.R during the period of his/her study in the Department of Botany, St. Mary's College, Sulthan Bathery, under my supervision and guidance.

Ms. Neethu K.V

Department of Botany

St. Mary's College

Sulthan Bathery

Mrs. Rachel Thomas

HOD of Botany

St. Mary's College

Sulthan Bathery

Examiners,

1.

2.

**ST.MARY'S COLLEGE, SULTHAN BATHERY**

**DEPARTMENT OF BOTANY**

**2017-2018**



**A FLORISTIC ANALYSIS OF THE WETLAND PLANTS  
WITH SPECIAL EFFECT ON RICE SEED GERMINATION**

**Dissertation submitted to the University of Calicut in partial  
fulfillment of the requirement for the Degree of Bachelor of  
Science in Botany**

**Name:.....**

**Reg.No:.....**



DEPARTMENT OF BOTANY  
ST.MARY'S COLLEGE, SULTHAN BATHERY

**CERTIFICATE**



**T**his is to certify that the dissertation entitled " **A FLORISTIC ANALYSIS OF THE WETLAND PLANTS WITH SPECIAL EFFECT ON RICE SEED GERMINATION**" submitted to the University of Calicut in partial fulfillment of the requirement for the award of Degree of Bachelor Of Science in Botany is a record of original research done by..... during the period of his/her study in the Department Of Botany, St. Mary's College, Sulthan Bathery under my supervision and guidance.

Dr. Raji.R  
Department of Botany  
St. Mary's College  
Sulathan Bathery

Mrs. Rachel Thomas  
HOD of Botany  
St. Mary's College  
Sulthan bathery

**DIFFUSION AND TRANSPORT OF PETROL, DIESEL  
AND KEROSENE THROUGH CROSSLINKED NBR-NiO  
NANOCOMPOSITE MEMBRANES**

*Project report submitted to the University of Calicut  
In partial fulfilment of the requirements for the award of the degree of*

**MASTER OF SCIENCE  
IN  
CHEMISTRY**

Under the faculty of chemistry  
St Mary's college, Sulthan Bathery.

By

**SONU P. R.**

**Reg no: SMAQMCH008**



**2016-2018**

**POST GRADUATE DEPARTMENT OF CHEMISTRY**

**St MARY'S COLLEGE, S BATHERY, WAYANAD**

**[NAAC Accredited with A grade]**



**POST GRADUATE DEPARTMENT OF CHEMISTRY**

**St MARY'S COLLEGE**

**SULTHAN BATHERY**



**CERTIFICATE**

This is to certify that the project entitled "*DIFFUSION AND TRANSPORT OF PETROL, DIESEL AND KEROSENE THROUGH CROSSLINKED NBR-NiO NANOCOMPOSITE MEMBRANES*" is an authentic work record of the project done by **Ms. Sonu P. R. (Reg no. SMAQMCH008)** under my supervision and guidance in partial fulfilment of the requirements for the award of degree of Master of Science in chemistry through Department of Chemistry, St Mary's college Sulthan Bathery, affiliated to the University of Calicut.

**Dr. George Mathew**  
Supervising teacher  
Chemistry

**Mrs. Latha Devi T.**  
Head of Department of

Submitted for viva-voce examination held on St Mary's college, Sulthan Bathery.

Examiners:

- 1.
- 2.
- 3.

**PREPARATION AND CHARACTERISATION OF  
NICKEL OXIDE NANOPARTICLE AND  
NANOCOMPOSITE BLEND BASED ON CHLORINATED  
STYRENE BUTADIENE RUBBER AND NITRILE  
RUBBER**

*Project report submitted to the University of Calicut*

*in partial fulfillment of the requirements*

*for the award of the degree of*

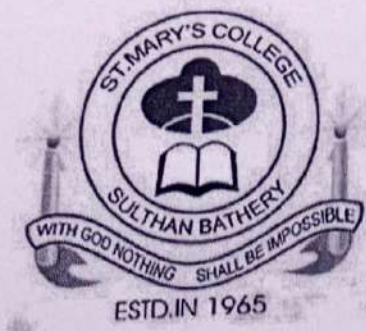
**MASTER OF SCIENCE**

**IN**

**CHEMISTRY**

**ARJUN K V**

**Reg.No. SMAQMCH 004**



*Checked  
Scanned by  
01/08/18*

*Da  
11/8/18*

**POST GRADUATE DEPARTMENT OF CHEMISTRY  
ST. MARY'S COLLEGE, S. BATHERY, WAYANAD  
[NAAC Reaccredited with A grade]**

*Checked  
11/8/18*

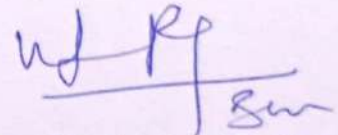


## CERTIFICATE

This is to certify that this thesis entitled "PREPARATION AND CHARACTERISATION OF NICKEL OXIDE NANOPARTICLE AND NANOCOMPOSITE BLEND BASED ON CHLORINATED STYRENE BUTADIENE RUBBER AND NITRILE RUBBER" is a bonafide record of research work carried out by **Mr.Arjun.K.V** under my supervision and guidance for the award of the degree of **Master of Science in Chemistry** from University of Calicut. I further certify that no part of this thesis has been submitted earlier for the award of any other degree.

C.U.Campus

Date: 29/7/18



**Dr. M.T. RAMESAN**

**PREPARATION AND CHARACTERISATION OF  
NICKEL OXIDE NANOPARTICLES AND  
NANOCOMPOSITE BASED ON CHLORINATED  
STYRENE BUTADIENE RUBBER**

*Project report submitted to the University of Calicut*

*In partial fulfillment of the requirements*

*for the award of the degree of*

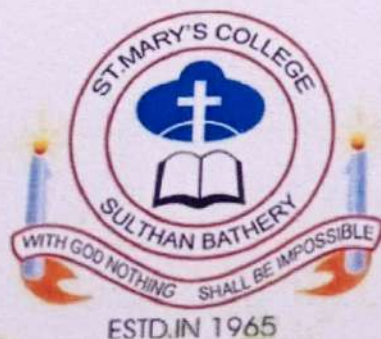
**MASTER OF SCIENCE**

**IN**

**CHEMISTRY**

**NEENU BABU**

**Reg.No. SMAQMCH 007**



*Scanned by  
01/08/18*

*Re  
1/8/18*

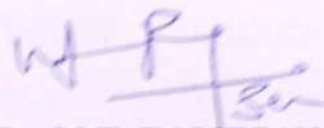
**POST GRADUATE DEPARTMENT OF CHEMISTRY  
ST. MARY'S COLLEGE, S. BATHERY, WAYANAD**

**NAAC Accredited with A grade**



## CERTIFICATE

This is to certify that this thesis entitled "PREPARATION AND CHARACTERISATION OF NICKEL OXIDE NANOPARTICLES AND NANOCOMPOSITE BASED ON CHLORINATED STYRENE BUTADIENE RUBBER " is a bonafide record of research work carried out by Ms. Neenu Babu under my supervision and guidance for the award of the degree of Master of Science in Chemistry from University of Calicut. I further certify that no part of this thesis has been submitted earlier for the award of any other degree.



Dr. M.T. RAMESAN

C.U.Campus

Date: 29/7/18

**DIFFUSION AND TRANSPORT OF ORGANIC  
SOLVENTS THROUGH NBR/CI-SBR BLEND/NiO  
NANOCOMPOSITE**

**Project report submitted to the University of Calicut  
In partial fulfillment of the requirements  
For the award of the degree of**

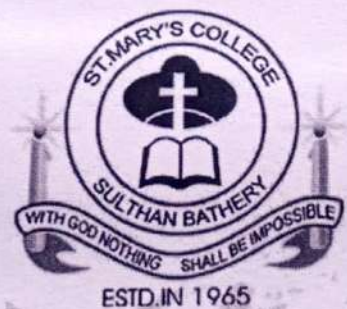
**MASTER OF SCIENCE  
IN  
CHEMISTRY**

**Under the faculty of chemistry  
St.Mary's college,Sulthan Bathery**

**By**

**SOORYA.K.S**

**RegNo.SMAQMCH009**



**2016-2018**

**POST GRADUATE DEPARTMENT OF CHEMISTRY  
ST.MARY'S COLLEGE ,S.BATHERY,WAYANAD**

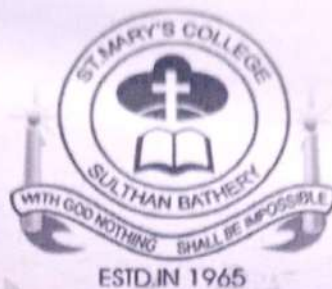
**[NAAC Accredited with A grade]**



POST GRADUATE DEPARTMENT OF CHEMISTRY

ST.MARY'S COLLEGE

SULTHAN BATHERY



## CERTIFICATE

This is to certify that the project entitled **“DIFFUSION AND TRANSPORT OF ORGANIC SOLVENTS THROUGH NBR/CI-SBR BLEND/ NiO NANOCOMPOSITE”** is an authentic record of the project done by Ms.SOORYA.K.S (Reg.No.SMAQMCH009) under my supervision and guidance in partial fulfillment of the requirements for the award of degree of master of science in chemistry through Department of Chemistry, St. Mary's college Sulthan Bathery, affiliated to the University of Calicut.

**Mr. George Mathew**

Supervising Teacher

**Mrs. Latha Devi.T**

Head, Department of Chemistry

Submitted for viva-voice examination held on St. Mary's college, Sulthan Bathery.

**Examiners,**

1.

2.

**A STUDY ON INVESTOR'S PERCEPTION TOWARDS  
POSTAL SAVINGS SCHEMES IN WAYANAD DISTRICT  
WITH SPECIAL REFERENCE TO KALPETTA  
MUNICIPALITY**

Submitted to University of Calicut in partial fulfillment for the award of  
the degree of

**MASTER OF COMMERCE**

Submitted by  
**MEERA P DAS**  
Reg.No: SMAQMCM019

Under the guidance of

**Mr. ARUN KUMAR T T**

(Assistant Professor, PG Dept. of Commerce & Management studies, St.  
Mary's College, Sulthan Bathery)



**P G DEPARTMENT OF COMMERCE AND  
MANAGEMENT STUDIES**

**ST MARY'S COLLEGE, SULTHAN BATHERY**

**(NAAC Re-accredited with 'A')**

**2016-2018**



**ST. MARY'S COLLEGE**  
**SULTHAN BATHERY**  
**WAYANAD**



**CERTIFICATE**

This is to certify that the project work entitled with **A STUDY ON INVESTOR'S PERCEPTION TOWARDS POSTAL SAVINGS SCHEMES IN WAYANAD DISTRICT WITH SPECIAL REFERENCE TO KALPETTA MUNICIPALITY** submitted to Calicut University in partial fulfillment of the award of the degree of the master of commerce is record of the original work done by **MEERA P DAS** under my supervision and guidance and that this project work has not formed the basis for the award of any degree/diploma/fellowship or similar title to any candidate of the university.

**Mr. Arun Kumar T.T**

Assistant Professor  
Department of Commerce  
St. Mary's College  
Sulthan Bathery

**Prof. Wilson M.A**

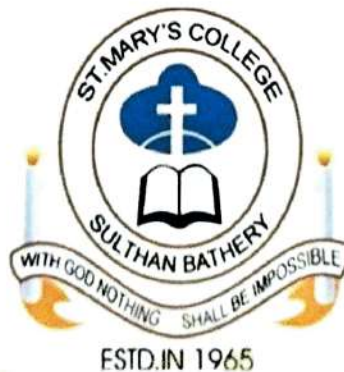
Head of the Department  
Department of Commerce  
St. Mary's College  
Sulthan Bathery

**“AWARENESS ON STOCK MARKET INVESTMENT- A  
COMPARATIVE STUDY ON PUBLIC AND PRIVATE  
SECTOR EMPLOYEES IN WAYANAD DISTRICT WITH  
SPECIAL REFERENCE TO SULTHAN BATHERY  
MUNICIPALITY”**

Submitted to University of Calicut in partial fulfillment for the award of  
the  
Degree of  
**MASTER OF COMMERCE**

Submitted by  
**DONA SUNNY**  
Reg.No: SMATMCM020

Under the guidance of  
**Asst. Prof. Dr. BALAKRISHNAN P**  
(PG Dept. of Commerce & Management studies, St. Mary’s college, Sulthan Bathery)



**P G DEPARTMENT OF COMMERCE  
ST MARY'S COLLEGE, SULTHAN BATHERY  
(NAAC Re-accredited with 'A') 2016-2018**





**P G DEPARTMENT OF COMMERCE  
ST MARY'S COLLEGE, SULTHAN BATHERY**



**CERTIFICATE**

This is to certify that the project work entitled with **“AWARENESS ON STOCK MARKET INVESTMENT- A COMPARATIVE STUDY ON PUBLIC AND PRIVATE SECTOR EMPLOYEES IN WAYANAD DISTRICT WITH SPECIAL REFERENCE TO SULTHAN BATHERY MUNICIPALITY”** submitted to Calicut university in partial fulfillment of the requirement for the award of the degree of Master of commerce is a record of the original work done by DONA SUNNY under my supervision and guidance and that this project work has not formed on the basis for the award of any degree/diploma/fellowship or similar title to any candidate of any University.

  
**Dr. BALAKRISHNAN P**  
PG Dept. of Commerce  
St. Mary's College  
Sulthan Bathery

  
**Wilson M. A**  
H.O.D  
PG Dept. of commerce  
St. Mary's College  
Sulthan Bathery



**A STUDY ON NURSES WELFARE WITH SPECIAL  
REFERENCE TO DM WAYANAD INSTITUTE OF MEDICAL  
SCIENCE MEPPADI, WAYANAD**

**PROJECT REPORT**

Submitted to University of Calicut in partial fulfillment for the award of the  
Degree of  
**MASTER OF COMMERCE**

Submitted by

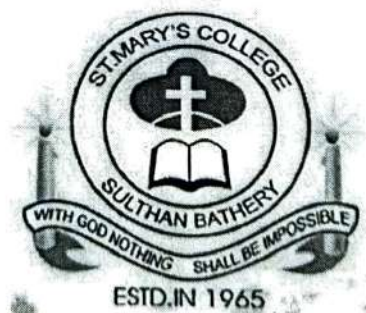
**SHIJI M.J**

Reg.No:SMAQMCM033

Under the guidance of

**Mrs. LINJIYA. S**

(PG Dept. of Commerce & Management studies, St. Mary's college, Sulthan  
Bathery)



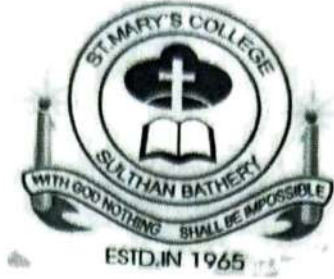
**P G DEPARTMENT OF COMMERCE**

**ST MARY'S COLLEGE, SULTHAN BATHERY**  
**(NAAC Re-accredited with 'A')**

**2016-2018**



**ST MARY'S COLLEGE  
SULTHAN BATHERY  
WAYANAD**



**CERTIFICATE**

This is to certify that the project work entitled with “**A STUDY ON NURSES WELFARE WITH SPECIAL REFERENCE TO DM WAYANAD INSTITUTE OF MEDICAL SCIENCE**” submitted to Calicut university in partial fulfillment of the requirement for the award of the P G of Master of commerce is a record of the original work done by **SHIJI M.J** under my supervision and guidance and that this project work has not formed on the basis for the award of any degree/diploma/fellowship or similar title to any candidate of any University

*Linjiya S*  
24/6/18.

**Mrs: LINJIYA S**  
PG Dept. of commerce  
St.Mary's College  
SulthanBathery  
SulthanBathery

*P.C.*  
2012/118.

**Mr.WILSON MA**  
H.O.D  
PG Dept. of commerce  
St.Mary's College

*Wilson*

*g.h.*

**A STUDY ON INVESTMENT PATTERN OF  
WORKING WOMEN WITH SPECIAL  
REFERENCE TO WAYANAD DISTRICT**

**PROJECT REPORT**

Submitted to University of Calicut in partial fulfillment for the award of  
the Degree of

**MASTER OF COMMERCE**

Submitted by

**SHILPA SLEEBA**

**Reg. No.SMAQMCMO34**

Under the guidance of

**Asst. Prof. DIVYA V.P**

Submitted in the

**UNIVERSITY OF CALICUT**



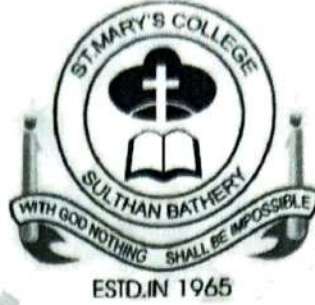
ESTD. IN 1965

**2016-2018**

**PG DEPARTMENT OF COMMERCE  
ST. MARY'S COLLEGE, SULTHAN BATHERLY  
(NAAC Re-accredited with 'A' Grade)**



**ST MARY'S COLLEGE  
SULTHAN BATHERY  
WAYANAD**



**CERTIFICATE**

This is to certify that the project work entitled with “**A STUDY ON INVESTMENT PATTERN OF WORKING WOMEN WITH SPECIAL REFERENCE TO WAYANAD DISTRICT**” submitted to Calicut university in partial fulfillment of the requirement for the award of the P G of Master of commerce is a record of the original work done by **SHILPA SLEEBA** under my supervision and guidance and that this project work has not formed on the basis for the award of any degree/diploma/fellowship or similar title to any candidate of any University

  
**Mrs. DIVYA V P**

PG Dept. of commerce

St. Mary's College

Sulthan Bathery

**Mr. Wilson M A**

H.O.D

PG Dept. of commerce

St. Mary's College

Sulthan Bathery



# **“EFFECT OF COVID 19 ON AUTOMOBILE SECTOR”**

Submitted to University of Calicut in partial fulfillment for the award of the  
Degree of  
**MASTER OF COMMERCE**

Submitted by  
**HARITHA HEMACHANDRAN**  
Reg.No: SMATMCM022

Under the guidance of

**Asst. Prof. SABIN BABY**

(PG Dept. of Commerce & Management studies, St. Mary's college, Sulthan Bathery)



**P G DEPARTMENT OF COMMERCE**

**ST MARY'S COLLEGE, SULTHAN BATHERY**

**(NAAC Re-accredited with 'A')**

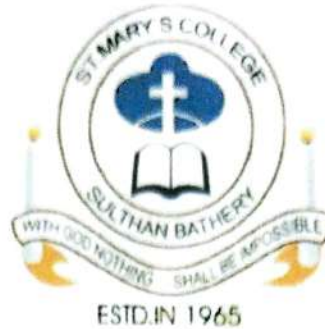
**2016-2018**



# ST MARY'S COLLEGE

SULTHAN BATHERY


WAYANAD



## CERTIFICATE

This is to certify that the project work entitled with "**Effect of covid 19 on automobile sector**" submitted to Calicut university in partial fulfillment of the requirement for the award of the PG of Master of commerce is a record of the original work done by **HARITHA HEMACHANDRAN** under my supervision and guidance and that this project work has not formed on the basis for the award of any degree/diploma/fellowship or similar title to any candidate of any University

**Sabin Baby**  
Assistant Professor  
PG Dept. of commerce  
St Mary's College  
Sulthan Batherly

  
**Wilson M A**  
H.O.D  
PG Dept. of commerce  
St Mary's College  
Sulthan Batherly

  
Asun

**A STUDY ON CUSTOMER SATISFACTION TOWARDS RELIANCE  
JIO  
WITH SPECIAL REFERENCE TO WAYANAD DISTRICT**

***PROJECT REPORT***

***Submitted to University of Calicut in partial  
Fulfillment of the requirements for the Award of the  
Degree of Master of Commerce***

**Submitted by**

**ANU JOSE**

**Reg.No.SMAQMCM006**

**Under the Supervision of**

**Asst.Prof.ARUN KUMAR T T**

*(dept.of Commerce &Mgt Studies, St.Marys College, Sulthan Bathery)*



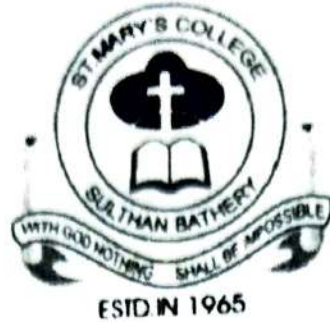
**2016-18**

**DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES  
ST.MARY'S COLLAGE, SULTHAN BATHERY**

**(NAAC Re-accredited with 'A' Grade)**



**ST. MARY'S COLLEGE  
SULTHAN BATHERY  
WAYANAD**




**CERTIFICATE**

*This is to certify that the Project work entitled with “ A STUDY ON CUSTOMER SATISFACTION TOWARDS RELIANCE JIO WITH SPECIAL REFERENCE TO WAYANAD DISTRICT” Submitted to Calicut University in partial fulfillment of the award of the degree of the master of commerce is record of the original work done Asst.PROF.ARUN KUMAR T T. Under my supervision and guidance and that this project work has not formed the basis for the award of any degree/diploma/fellowship or similar title to any candidate of the university.*

  
**PROF.ARUN KUMAR T T**

*Assistant Professor  
Department of Commerce*

**PROF.WILSON M A**

  
*Head of the Department  
Department of Commerce*

  
2017/18



**A STUDY ON BANCASSURANCE ON CUSTOMER  
SATISFACTION TOWARDS PUBLIC SECTOR BANKS AND  
PRIVATE SECTOR BANKS, WAYANAD DISTRICT**

**PROJECT REPORT**

Submitted to University of Calicut in partial fulfillment for the award of the  
Degree of

**MASTER OF COMMERCE**

Submitted by

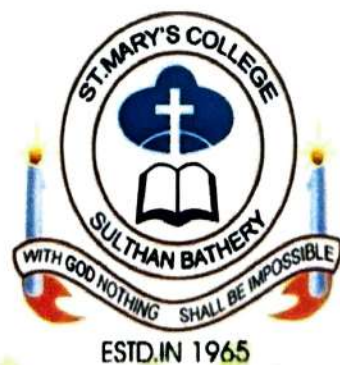
**MIDHULA DEVASSIA**

**Reg.No: SMAQMCM020**

Under the guidance of

**Asst. Prof. WILSON M A**

(PG Dept. of Commerce & Management studies, St. Mary's college,  
Sulthan Bathery)

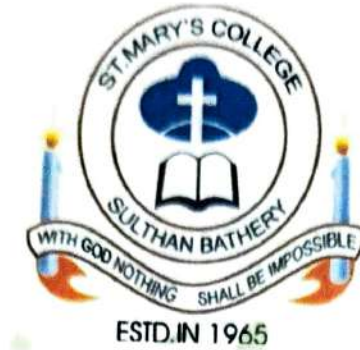


**P G DEPARTMENT OF COMMERCE  
ST MARY'S COLLEGE, SULTHAN BATHERY**

**(NAAC Re-accredited with 'A' Grade)**

**2016-2018**

**ST MARY'S COLLEGE  
SULTHAN BATHERY  
WAYANAD**



**CERTIFICATE**

This is to certify that the project work entitled with “**A Study On Bancassurance on customer satisfaction towards public sector and private sector banks Wayand district**“ submitted to Calicut university in partial fulfilment of the requirement for the award of the P G of Master of commerce is a record of the original work done by **MIDHULA DEVASSIA** under my supervision and guidance and that this project work has not formed on the basis for the award of any degree/diploma/fellowship or similar title to any candidate of any University

**Mr. Wilson M A**

PG Dept. of commerce

St. Mary's College

Sulthan Bathery

**Mr. Wilson M A**

H.O.D PG Dept. of commerce

St. Mary's College

Sulthan Bathery

*[Handwritten signature in green ink]*

*[Handwritten signature in blue ink]*  
20/12/18

*[Handwritten signature in green ink]*

*[Handwritten signature in purple ink]*



**“A STUDY ON CUSTOMER’S PERCEPTION TOWARDS  
ADVERTISEMENT IN MOBILE MARKET”**

Submitted to University of Calicut in partial fulfillment for the award of  
the Degree of

**MASTER OF COMMERCE**

Submitted by

**SHRUTHI.K**

Reg.No: SMAQMCM035

Under the guidance of

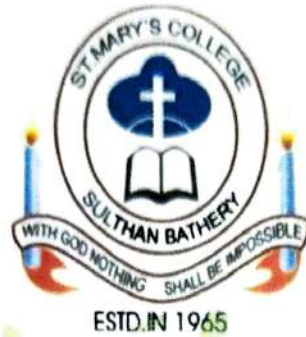
**Asst.Prof. GANESH R**

(PG Dept. of Commerce & Management studies, St. Mary’s college, Sulthan  
Bathery)



**P G DEPARTMENT OF COMMERCE  
ST MARY’S COLLEGE, SULTHAN BATHERY  
(NAAC Re-accredited with ‘A’)  
2016-2018**

**ST MARY'S COLLEGE**  
**ST MARY'S COLLEGE**  
**SULTHAN BATHERY**  
**WAYANAD**



**CERTIFICATE**

This is to certify that the project work entitled with "A Study On customer's perception towards advertisement in mobile marketing" submitted to Calicut university in partial fulfillment of the requirement for the award of the P G of Master of commerce is a record of the original work done by **SHRUTHI.Kunder** my supervision and guidance and that this project work has not formed on the basis for the award of any degree/diploma/fellowship or similar title to any candidate of any University

**Ganesh R**  
PG Dept. of commerce  
St.Mary's College  
Sulthan Bathery

Feb. 20/2/14

*[Handwritten signature in purple ink]*

20/2/14

**Wilson M A**  
H.O.D  
PG Dept. of commerce  
St.Mary's College  
Sulthan Bathery

*[Handwritten signature in green ink]*

**“A STUDY ON THE FINANCIAL PERFORMANCE OF  
CO-OPERATIVE MILK SOCIETY NO.W14(D)  
VAKERY, SULTHAN BATHERY  
WAYANAD”**

**PROJECT REPORT**

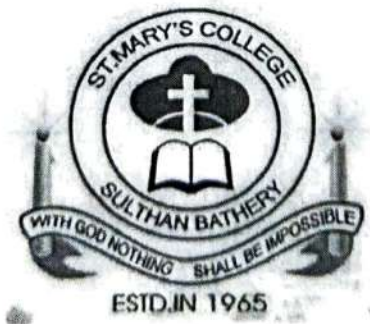
Submitted by  
**ABHIJITH SUNNY**  
REG NO: **SMAQMCM002**

Under the guidance of  
**Mrs. DHANYA ABRAHAM**

(Assistant Professor, PG Department of Commerce and Management Studies,  
St. Mary's college Sulthan Bathery, Wayanad)

Submitted to the university of Calicut in partial fulfillment of the requirement  
for the award of the Degree in

**MASTER OF COMMERCE**

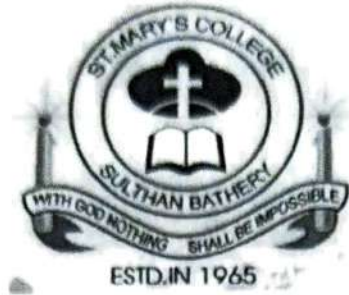


**P G DEPARTMENT OF COMMERCE  
ST MARY'S COLLEGE, SULTHAN BATHERY  
(NAAC Re-accredited with 'A' Grade)**

**2016-2018**




**ST MARY'S COLLEGE  
SULTHAN BATHERY  
WAYANAD**




**CERTIFICATE**

This is to certify that the project work entitled with “**A STUDY ON THE FINANCIAL PERFORMANCE OF CO-OPERATIVE MILK SOCIETY NO.W14(D) VAKERY, SULTHAN BATHERY, WAYANAD**” submitted to Calicut university in partial fulfillment of the requirement for the award of the P G of Master of commerce is a record of the original work done by **ABHIJITH SUNNY** under my supervision and guidance and that this project work has not formed on the basis for the award of any degree/diploma/fellowship or similar title to any candidate of any University

  
**Mrs. Dhanya Abraham**  
PG Dept. of commerce  
St. Mary's College  
Sulthan Bathery

**Mr. Wilson M A**  
H.O.D  
PG Dept. of commerce  
St. Mary's College  
Sulthan Bathery



  
2017/18



**A STUDY ON WOMEN ENTREPRENEURSHIP IN  
WAYANAD DISTRICT WITH SPECIAL REFERENCE  
TO SULTHAN BATHERY MUNICIPALITY**

**PROJECT REPORT**

Submitted to University of Calicut in partial fulfillment for the award of the  
Degree of

**MASTER OF COMMERCE**

Submitted by

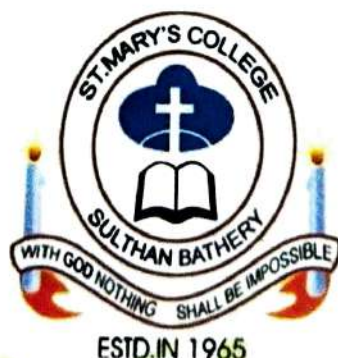
**ATHIRA P P**

**Reg.No: SMAQMCM011**

Under the guidance of

**Asst. Prof. JISHA T P**

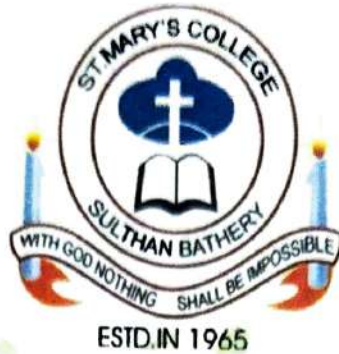
(PG Dept. of Commerce & Management studies, St. Mary's college,  
Sulthan Bathery)



**P G DEPARTMENT OF COMMERCE  
ST MARY'S COLLEGE, SULTHAN BATHERY  
(NAAC Re-accredited with 'A' Grade)**


**2016-2018**

**ST MARY'S COLLEGE  
SULTHAN BATHERY  
WAYANAD**




**CERTIFICATE**

This is to certify that the project work entitled with “A Study On Women Entrepreneurship In Wayanad District With Special Reference To Sulthan Bathery Municipality “submitted to Calicut university in partial fulfillment of the requirement for the award of the P G of Master of commerce is a record of the original work done by **ATHIRA P P** under my supervision and guidance and that this project work has not formed on the basis for the award of any degree/diploma/fellowship or similar title to any candidate of any University

  
**Jisha T P**  
PG Dept. of commerce  
St.Mary's College  
Sulthan Bathery

  
20/10/2018

**Wilson M A**  
H.O.D  
PG Dept. of commerce  
St.Mary's College  
Sulthan Bathery





**A STUDY ON CUSTOMER PERCEPTION AND BRAND  
IMAGE OF PATANJALI AYURVED LTD  
(WITH SPECIAL REFERENCE TO WAYANAD DISTRICT)**

*Project report submitted to the Calicut University in partial fulfillment for the  
requirements of the award of degree of*

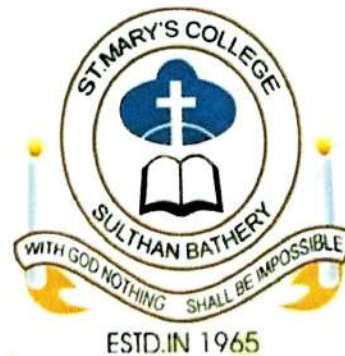
**MASTER OF COMMERCE**

Submitted by  
**ELDOS PAUL**  
Reg.No. SMAQMCM014

**Under the supervision of**

**Mr. ARUN KUMAR T T**

(Asst. Professor, Dept. of Commerce, St. Mary's College, Sulthan Bathery)



**DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES ST  
MARY'S COLLEGE**

**(NAAC Re-accredited with 'A' Grade)**

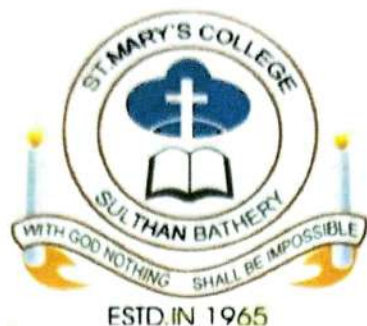
**SULTHAN BATHERY**

**2016-18**

# ST MARY'S COLLEGE

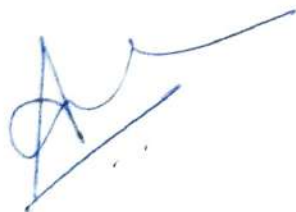
SULTHAN BATHERY

WAYANAD



## CERTIFICATE

This is to certify that the project work entitled with “**A STUDY ON CUSTOMER PERCEPTION AND BRAND IMAGE OF PATANJALI AYURVED LTD WITH SPECIAL REFERENCE TO WAYANAD DISTRICT**” is a bonafide record of the work done by **ELDOS PAUL** in partial fulfillment of the requirements for the award of Master of Commerce of University of Calicut under my guidance.



**MR. ARUN KUMAR T T**

Assistant Professor

Department of Commerce



**Prof. WILSON M A**

Head of the Department

Department of Commerce



**A STUDY ON IMPACT OF E-BANKING IN BANKING  
SECTOR WITH SPECIAL REFERENCE TO SULTHAN  
BATHERY MUNICIPALITY**

**PROJECT REPORT**

Submitted to University of Calicut in partial fulfillment for the award of  
the Degree of

**MASTER OF COMMERCE**

Submitted by

**MOHAMMED RAFI E K**

**Reg.No: SMAQMCM022**

Under the guidance of

**Asst.Prof. SABIN BABY**

(PG Dept. of Commerce & Management studies, St. Mary's college,  
Sulthan Bathery)

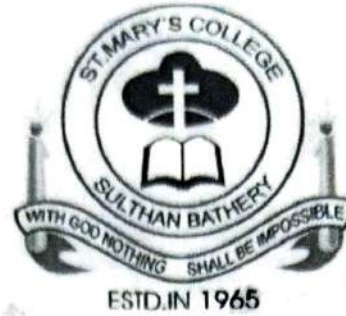


**P G DEPARTMENT OF COMMERCE  
ST MARY'S COLLEGE, SULTHAN BATHERY  
(NAAC Re-accredited with 'A' Grade)**

**2016-2018**



**ST MARY'S COLLEGE  
SULTHAN BATHERY  
WAYANAD**



**CERTIFICATE**

This is to certify that the project work entitled with “**A STUDY ON IMPACT OF E-BANKING IN BANKING SECTOR WITH SPECIAL REFERENCE TO SULTHAN BATHERY MUNICIPALITY**” submitted to Calicut university in partial fulfillment of the requirement for the award of the P G of Master of commerce is a record of the original work done by **MOHAMMED RAFI E K** under my supervision and guidance and that this project work has not formed on the basis for the award of any degree/diploma/fellowship or similar title to any candidate of any University

**Sabin Baby**

PG Dept. of commerce

St. Mary's College

Sulthan Bathery

*PC*  
20/7/18

**Wilson M A**

H.O.D

PG Dept. of commerce

St. Mary's College

Sulthan Bathery

**A COMPARITIVE STUDY ON THE OCCUPATIONAL  
STRESS OF PUBLIC AND PRIVATE SECTOR BANK  
EMPLOYEES (WITH SPECIAL REFERENCE TO SULTHAN  
BATHERY MUNICIPALITY)**

*Project report submitted to the Calicut University in partial fulfillment for the  
requirements of the award of degree of*

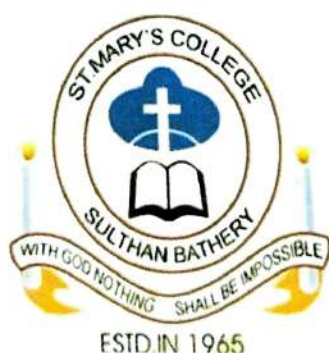
**MASTER OF COMMERCE**

Submitted by  
**ANUSHREE C M**  
Reg.No. **SMAQMCM007**

**Under the supervision of**

**Dr. BALAKRISHNAN. P**

(Asst. Professor, Dept. of Commerce, St. Mary's College, Sulthan Bathery)



**DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES**

**ST MARY'S COLLEGE**

**(NAAC Re-accredited with 'A' Grade)**

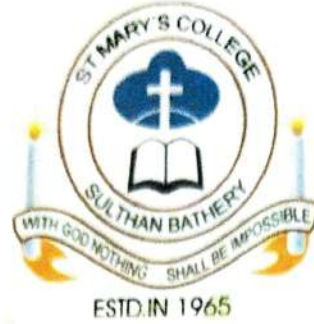
**SULTHAN BATHERY**

**2016-2018**

# ST MARY'S COLLEGE

SULTHAN BATHERY

WAYANAD



## CERTIFICATE

This is to certify that the project work entitled with “**A COMPARITIVE STUDY ON THE OCCUPATIONAL STRESS OF PUBLIC AND PRIVATE SECTOR BANK EMPLOYEES (WITH SPECIAL REFERENCE TO SULTHAN BATHERY MUNCIPALITY)**” is a bonafide record of the work done by **ANUSHREE C M** in partial fulfillment of the requirements for the award of Master of Commerce of University of Calicut under my guidance.

**Dr. BALAKRISHNAN. P**

Assistant Professor  
Department of Commerce

*Ri*  
20/12/18

**Prof. WILSON M A**  
Head of the Department  
Department of Commerce



**“A STUDY ON INCREASING DEMAND OF HEALTH  
INSURANCE WITH SPECIAL REFERENCE TO  
WAYANAD DISTRICT”**

**PROJECT REPORT**

Submitted to the university of Calicut in partial fulfillment of the  
requirements for the award of the Degree of

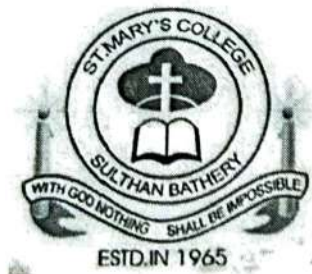
**MASTER OF COMMERCE**

Submitted by

**ASHIN POULOSE**  
**Reg.No:SMAQMCM009**

Under the guidance of  
**Asst.Prof: WILSON M A**

(Dept. of Commerce & Management studies, St. Mary's college, Sulthan Bathery)



**2016-2018**

**DEPARTMENT OF COMMERCE AND MANAGEMENT  
STUDIES**

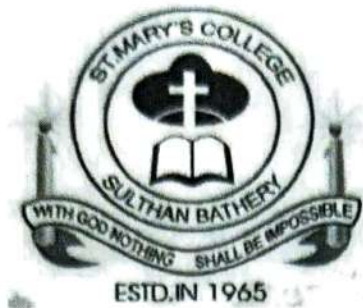
**ST MARY'S COLLEGE, SULTHAN BATHERY**

**(NAAC Re-accredit with "A" Grade)**

# ST MARY'S COLLEGE

SULTHAN BATHERY

WAYANAD



## CERTIFICATE

This is to certify that the project work entitled withsubmitted to Calicut university in "A STUDY ON INCREASING DEMAND ON HEALTH INSURANCE WITH SPECIAL REFERENCE TO WAYANAD DISTRICT "submitted to Calicut university inpartial fulfillment of the requirement for the award of the P G of Master of commerce is a record of the original work done by **ASHIN POULOSE** under my supervision and guidance and that this project work has not formed on the basis for the award of any degree/diploma/fellowship or similar title to any candidate of any University.

Asst.prof. **WILSON M A**

Department of commerce

St. Mary's College

Sulthan Bathery

Asst.prof. **WILSON M.A**

Head of the department

Department of commerce

St. Mary's College

Sulthan Bathery

**EXPERIENCE OF CUSTOMERS  
ON ONLINE TRADING THROUGH GEOJIT**

**PROJECT REPORT**

Submitted By

**SARATH B**

**Reg No: SMAQMCM031**

Under the Guidance of

Mrs.Linjiya

(Assistant Professor, PG Dept. of commerce St.Marys College, Sulthan Bathery)

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

**MASTER OF COMERCE**

**Of**

**UNIVERSITY OF CALICUT**



2016-2018

POST GRADUATE DEPARTMENT OF COMMERCE

ST.MARYS COLLEGE SULTHAN BATHERY WAYANAD



**POST GRADUATE DEPARTMENT OF COMMERCE**

**ST.MARYS COLLEGE**

**SULTHAN BATHERY WAYANAD**



ESTD. IN 1965

**CERTIFICATE**

This is to certify that the project report titled "**EXPERIENCE OF CUSTOMERS ON ONLINE TRADING THROUGH GEOJIT**" is a bona fide record of the work done by **SARATH B** in a partial fulfillment of the requirements for the award of MASTER OF COMERCE of UNIVERSITY OF CALICUT at ST.MARYS COLLEGE SULTHAN BATHERY WAYANAD.

**Mrs.Linjiya**

Assistant Professor

PG Dept. of commerce St.Marys College

Sulthan Batherly

*Linjiya*  
14/6/18

Place:

Date:

*P.C.*  
20/7/18

CounterSigned by : **Mr Wilson M A**

Head of The Department of Commerce

St.Marys College Sulthan Batherly

*Wilson M A*

*[Handwritten signature in pink]*

**A STUDY ON ECO TOURISM POTTENCIAL OF  
WAYANAD AND TOURIST SATISFACTION WITH  
SPECIAL REFERENCE TO EDAKKAL CAVE AND  
POOKODE LAKE**

**PROJECT REPORT**

*Submitted by*

**LINTA VARGHEESE**

**Reg. No. SMAPAECR 29**

*Under The Guidance Of*

**VINEESH O K**

[Guest Lecturer]

*Submitted in the partial fulfillment of the requirement  
for the award of the degree of*

**BACHELOR OF ECONOMICS**

**UNIVERSITY OF CALICUT**



ESTD. IN 1965

**DEPARTMENT OF ECONOMICS  
St. Mary's College, Sulthan Bathery  
(NAAC RE-Accredited with A Grade)**

**2015-2018.**

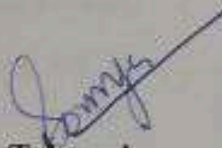


**ST MARY'S COLLEGE  
SULTHAN BATHERY  
WAYANAD**




**CERTIFICATE**

This Is To Certify That The Project Work Entitled "A STUDY ON THE ECO TOURISM POTTENTIAL OF WAYANAD AND TOURIST SATISFACTION WITH SPECIAL REFERENCE TO EDAKKAL CAVE AND POOKODE LAKE" submitted to Calicut university in partial fulfillment of the requirement for the award of the degree of bachelor of economics in a record of the original work done by ARUN KD, PRASIN PRAKASH, AISWARYA CS, LINTA VARGHEESE, SIKHA KK , ASWATHY MC under my supervision and guidance and that this project work has not formed the basis for the award of any degree/diploma/fellowship or similar title to any candidate of any university.

  
**Soumya T Joseph**  
Assistant Professor  
Head of the dept. of economics  
St. Mary's college  
Sulthan Batheri



  
**Vineesh O K**  
Guest Lecturer  
Dept. of economics  
St. Mary's college  
Sulthan Batheri



**CLIMATE CHANGE AND ITS AFFECT IN THE  
AGRICULTURAL SECTOR OF WAYANAD; A CASE STUDY OF  
AMBALAVAYAL PANCHAYATH**

**PROJECT REPORT**

Submitted By

<b>ARYA V P</b>	<b>SMAPAECR18</b>
<b>ADARSHA M VIJAYAN</b>	<b>SMAPAECR09</b>
<b>AMAL LAL P D</b>	<b>SMAPAECR46</b>
<b>JEENA N J</b>	<b>SMAPAECR27</b>
<b>NIDHUN K M</b>	<b>SMAPAECR55</b>
<b>RITHU UNNI</b>	<b>SMAPAECR37</b>

Under the guidance of

**Mr.VINEESH.OK** (Gust Lecturer. In Economic Department)

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

**BACHELOR OF ECONOMICS**

**UNIVERSITY OF CALICUT**



**DEPARTMENT OF ECONOMICS**

**ST.MARY'S COLLEGE SULTHAN BATHERY**

**(NAAC RE-ACCREDITED WITH 'A'GRADE)**

**2015-18**

## **ACKNOWLEDGEMENT**

This report was prepared and with the encouragement of so many people. It would be different for me to thank all of them individually and adequately.

We would like to heartily thank Sir Vineesh Ok, my research guide for her incisive and enlightening support of the project research.

We like to express our deep sense of gratitude to Miss. Soumya T. Joseph, Head of our department for his amiable support for the extension of data of submission of this report and also for enlightening my thought and study.

We also thank Dr. Gisha.P. Mathai, Our teacher for her unconditional support and guidance throughout the study.

We wish to thank to V. Ramachandren director general of statistical department in Kalpetta.

We also wish to thank our friends and also our group members Jeena.N.J, Arya v.p, Nidhun K.M, Rithu. Unni, Amal lal P.D and Adarsha M Vijayan who helped us doing project.

Lastly, we would like to express our sincere thanks to 40 farmers of Ambalavayal panchayath 1<sup>st</sup> and 2<sup>nd</sup> wards and also thanks to officer of Krishi Bhavan in Ambalavayal panchayath and each and every one who have directly and indirectly helped for this project work.

**JEENA.N.J**

**ARYA V.P**

**NIDHUN K.M**

**RITHU. UNNI**

**AMAL LAL P.D**

**ADARSHA M VIJAYAN**

## **DECLARATION**

As a part of our BA ECONOMICS CUCBCSS, Project work“**CLIMATE CHANGE AND ITS AFFECT IN THE AGRICULTURAL SECTOR OF WAYANAD; A CASE STUDY OF AMBALAVAYAL PANCHAYATH**” is a research work, carried out by me under the guidance of Lecture of department Gust Lecture Mr.VINEESH. O K for the award of BA. This project has not for need from the basis of any other similar title, associateship , fellowship or awarded for other degree. I declare that this research report is resulting of my own effort and in an original work.

Place: SulthanBathery

Date:

**JEENA.N.J**

**ARYA V.P**

**NIDHUN K.M**

**RITHU. UNNI**

**AMAL LAL P.D**

**ADARSHA M VIJAYAN**



# DEPARTMENT OF ECONOMICS ST.MARYS COLLEGE, SULTHAN BATHERY



## CERTIFICATE

This is to certify that the report titled “**CLIMATE CHANGE AND ITS AFFECT IN THE AGRICULTURAL SECTOR OF WAYANAD; A CASE STUDY OF AMBALAVAYAL PANCHAYATH**” is a record of project work done by Jeena.N.J, Arya v.p, Nidhun K.M, Rithu. Unni, Amal lal P.D and Adarsha M Vijayan a full time student of BA Economics at St. Mary’s College, S.Bathery. The period of his study in academic year 2015-18. This project report is a bonafide work of candidate under supervision and Guidance

**Assist. Prof. Soumya.T. Joseph**

HOD, Dept. of Economics

St. Marys’ College SulthanBathery

**Mr.Vineesh.O.K**

Gust.Lecturer Department of Economics

St.Mary’s College SulthanBathery

Place:

Date:

**AN ECONOMIC ANALYSIS OF SELF EMPLOYMENT AND  
SELF SUFFICIENCY IN HOME BASED BUSINESS IN  
BATHERY TALUK IN WAYANAD**

**PROJECT REPORT**

Submitted by

**DIHANALAKSHMI A V SMAPAECR23**

Under the guidance of

**DR GISILA P MATHAI (ASSISTANT, Prof)**

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

Of

**BACHELOR OF ECONOMICS**

**UNIVERSITY OF CALICUT**



**DEPARTMENT OF ECONOMICS**

**ST. MARY'S COLLEGE**

(NAAC Re- accredited with 'A' Grade)

**SULTHAN BATHERY**

2015-2018

DEPARTMENT OF ECONOMICS  
ST. MARY'S COLLEGE  
SULTHAN BATHERY



CERTIFICATE

This is to certify that the project report entitled "AN ECONOMIC ANALYSIS OF SELF EMPLOYMENT AND SELF SUFFICIENCY IN HOME BASED BUSINESS IN SULTHAN BATHERY TALUK, WAYANAD" is a record of work done by DHANALAKSHMI A V a full time student of BA Economics at St Mary's College Sulthan Bathery during the period of her study in academic year 2015-2018. This project report is a bonafide work of the candidate under my supervision and guidance.

Head of the Department

  
SOUMYA T JOSEPH

Assistant Professor  
Department of Economics  
St. Mary's College,  
Sulthan Bathery

  
GISHA P MATHAI

Assistant Professor  
Department of Economics  
St. Mary's College,  
Sulthan Bathery

Place : S. Bathery

Date : 20-4-2018





**A STUDY ON EMPLOYEE SATISFACTION AND WORKING ENVIRONMENT  
ON BRAHMAGIRI DEVELOPMENT SOCIETY**

**PROJECT REPORT**

*Submitted By*

**SWATHI KRISHNA P J (SMAPAECR43)**

*Under the guidance of*

**Ms.GISHA P MATHAI**

Assistant professor

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

**BACHELOR OF ECONOMICS**

**UNIVERSITY OF CALICUT**



ESTD. IN 1965

**DEPARTMENT OF ECONOMICS**

**ST.MARY'S COLLEGE**

**(NAAC Re-accredited with 'A' Grade)**

**Sulthan Bathery**

**2015-2018**

DEPARTMENT OF ECONOMICS

ST.MARY'S COLLEGE

SULTHAN BATHERY

WAYANAD



CERTIFICATE

This is to certify that the project work entitled with "A STUDY ON EMPLOYEE SATISFACTION AND WORKING ENVIRONMENT ON BRAHMAGIRI DEVELOPMENT SOCIETY" submitted to Calicut university in partial fulfillment of the award of the degree of the Bachelor of economics is good record of the original work done by SWATHI KRISHNA P.J under my supervision and guidance and that this project work has not formed the basis for the award of any degree/diploma/fellowship or similar title to any candidate of any university.

HEAD OF THE DEPARTMENT  
Ms.SOUMYA T JOSEPH  
Dept of Economics  
St. Mary's College  
Sulthan Batherly

Prof. GISHA P MATHAI  
Asst. professor  
Dept of Economics  
St. Mary's College  
Sulthan Batherly

Place: Sulthan Batherly

Date: 18/04/2018



**EXPLORING IDENTITY: AN ANALYTICAL VIEW ON THE  
CHARACTER OF SARAH IN *FRENCH LIEUTENANT WOMEN***

**BY JOHN FOWLES**

**DISSERTATION**

*Submitted to the University of Calicut  
In partial fulfillment of the requirements for  
the award of the degree of*

**MASTER OF ARTS**

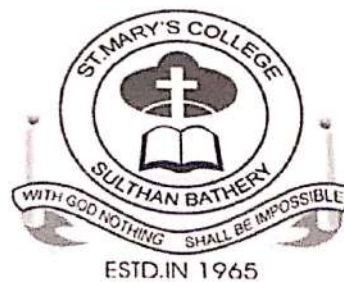
**IN**

**ENGLISH LANGUAGE AND LITERATURE**

**By**

**PRANAV C.H.**

**Reg No: SMAQMEG013**



**POST GRADUATE DEPARTMENT OF ENGLISH**

**ST. MARY'S COLLEGE**

**SULTHAN BATHERY**

**WAYANAD-673592**

**JULY 2018**



PG Department of English

St. Mary's College, Sulthan Bathery

Wayanad - 673592

### CERTIFICATE

This is to certify that the dissertation entitled *Exploring identity: An Analytical View on the character of Sarah in French Lieutenant Women* by John Fowles submitted to Calicut University in partial fulfillment of the requirement for the award of degree of MASTER OF ARTS IN ENGLISH is a record of original research work done by Pranav C.H. during the period of his study 2016-2018 in the PG Department of English, St Mary's College, Sulthan Bathery under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associateship/ Fellowship or any other similar titles elsewhere.

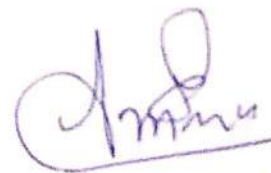
Place: Sulthan Bathery

Date: 18-07-2018

  
Aswani R. Jeevan

(Supervisor)



  
Amrutha K.R.

Head of Department

**BLATANT VOICE- OVER TRIBES: A COMPARATIVE  
STUDY OF NARAYAN'S *KOCHERTHI- THE ARAYA*  
WOMAN AND MAHASWETA DEVI'S  
*THE BOOK OF THE HUNTER***

**DISSERTATION**

*Submitted to the University of Calicut  
in partial fulfillment of the requirements for  
the award of the Degree of*

**MASTER OF ARTS  
IN  
ENGLISH LANGUAGE AND LITERATURE**

**BY**

**VARSHA PRABHUKUMAR**

**REG.NO: SMAQMEG018**



**ESTD. IN 1965**

**POST GRADUATE DEPARTMENT OF ENGLISH  
ST. MARY'S COLLEGE  
SULTHAN BATHERY  
WAYANAD- 673592  
JULY 2018**

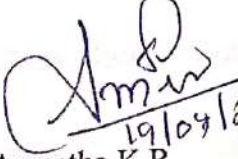
**PG Department of English**  
**St. Mary's College, Sulthan Bathery**  
**Wayanad- 673592**

## **CERTIFICATE**

This is to certify that the dissertation entitled **Blatant Voice- over Tribes: A Comparative Study of Narayan's *Kocharethi- the Araya Woman* and Mahasweta Devi's *The Book of the Hunter***, submitted to Calicut University in partial fulfillment of the requirements for the award of MASTER OF ARTS IN ENGLISH is a record of original research work done by Varsha Prabhukumar during the period of her study 2016-2018 in the PG Department of English, St. Mary's College, Sulthan Bathery, under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associateship/ Fellowship or any other similar titles elsewhere.


Place: Sulthan Bathery

Date: 18-07-2018

  
19/07/2018  
Amrutha K R

(Supervisor)



  
Amrutha K R.  
Head of the Department



**ROLE OF MAN IN NATURE: AN ANTHROPOCENTRIC  
STUDY ON YANN MARTEL'S *LIFE OF PI***

**DISSERTATION**

*Submitted to the University of Calicut  
in partial fulfillment of the requirements for  
the award of the Degree of*

**MASTER OF ARTS  
IN  
ENGLISH LANGUAGE AND LITERATURE**

**BY  
DONA SEBASTIAN  
REG.NO: SMAQMEG005**



**ESTD. IN 1965**

**POST GRADUATE DEPARTMENT OF ENGLISH  
ST. MARY'S COLLEGE  
SUTHAN BATHERY  
WAYANAD-673592  
JULY 2018**


**PG Department of English**  
**St.Mary's College, Sulthan Bathery**  
**Wayanad- 673592**

## **CERTIFICATE**


This is to certify that the dissertation entitled **Role of Man in Nature: An Anthropocentric Study on Yann Martel's *Life of Pi***, submitted to Calicut University in Partial fulfilment of the requirement for the award of MASTER OF ARTS IN ENGLISH is a record of original research work done by Dona Sebastian during the period of her study 2016-2018 in the PG Department of English, St. Mary's College Sulthan Bathery, under the supervision and guidance Ms.Aswani R.Jeevan, Assistant professor PG Department of English and that the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associateship/fellowship or any other similar title elsewhere.

Place: SulthanBathery

Date: 18-7-2018

  
Aswani R. Jeevan

(Supervisor)

  
Anantha K.R.  
Head of the department



**THE THEME OF CREATION AND DESTRUCTION IN MARY  
SHELLEY'S *FRANKENSTEIN***

**DISSERTATION**

*Submitted to the University of  
Calicut in partial fulfilment of the requirements for  
the award of the Degree of*

**MASTER OF ARTS  
IN  
ENGLISH LANGUAGE AND LITERATURE**

**BY  
NAVYA M. R.  
Reg.No: SMAQMEGO10**



**POST GRADUATE DEPARTMENT OF ENGLISH  
ST. MARY'S COLLEGE  
SULTHAN BATHERY  
WAYANAD-673592  
JULY 2018**



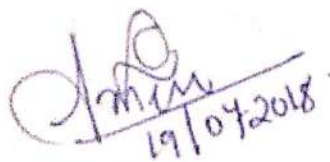
PG Department of English  
St. Mary's College Sulthan Bathery  
Wayanad-673592

## CERTIFICATE

This is to certify that the dissertation in titled **Theme of creation and Destruction in Mary Shelley's *Frankenstein***, submitted to Calicut University in partial fulfilment of the requirements for the award of MASTER OF ARTS IN ENGLISH is record of original research work done by Navya M R during the period of 2016-2018 in the PG Department of English, St Mary's college Sulthan Bathery, under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/ Diploma Associateship/ Fellowship or any other similar titles elsewhere.

Place: Sulthan Bathery

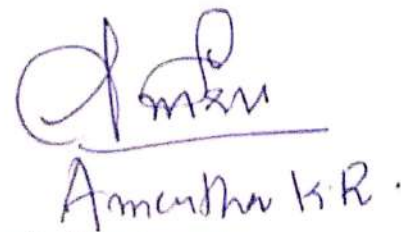
Date:18-07-2018

  
19/07/2018

Amrutha K R

(Supervisor)



  
Amrutha K R

Head of the Department

**REPRESENTATION OF INDIAN REALITY: A READING  
ON ARAVIND ADIGA'S *THE WHITE TIGER* AND  
ROHINTON MISTRY'S *A FINE BALANCE***

**DISSERTATION**

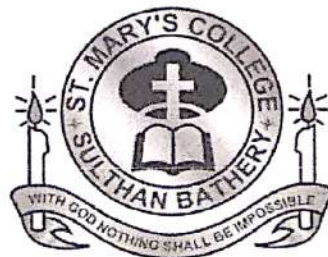
*Submitted to the University of Calicut  
in partial fulfillment of the requirements for  
the award of the Degree of*

**MASTER OF ARTS  
IN  
ENGLISH LANGUAGE AND LITERATURE**

BY

**ANJALI K. R.**

**REG NO: SMAQMEG004**



ESTD. IN 1965

**POST GRADUATE DEPARTMENT OF ENGLISH  
ST. MARY'S COLLEGE  
SULTHAN BATHERY  
WAYANAD-673592  
JULY 2018**

**PG Department of English**

**St. Mary's college, Sulthan Bathery**

**Wayanad- 673592**

## **CERTIFICATE**

This is to certify that the dissertation entitled **Representation of Indian Reality: A Reading on Aravind Adiga's *The WhiteTiger* and Rohinton Mistry's *A Fine Balance*** submitted to Calicut University in partial fulfillment of the requirements for the award of **MASTER OF ARTS IN ENGLISH** is a record of original research work done by Anjali K R during the period of her study 2016 - 2018 in the PG Department of English, St. Mary's College, Sulthan Bathery, under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associateship/ Fellowship or any other similar titles elsewhere.

Place: Sulthan Bathery

Date: 18-07-2018

  
ASWANI R. JEEVAN

(Supervisor)



  
Anjana K R.  
Head of the Department



**POSTCOLONIAL ASPECTS, A COMPARATIVE STUDY OF  
V.S. NAIPAUL'S *THE MIMIC MEN* AND *A HOUSE FOR  
MR. BISWAS***

**DISSERTATION**

*Submitted to the University of Calicut  
in partial fulfillment of the requirements for  
the award of the Degree of*

**MASTER OF ENGLISH  
IN  
ENGLISH LANGUAGE AND LITERATURE**

**BY  
JAMSHEENA K T  
REG.NO: SMAQMEG008**



**ESTD. IN 1965**

**POST GRADUATE DEPARTMENT OF ENGLISH  
ST. MARY'S COLLEGE  
SULTHAN BATHERY  
WAYANAD  
JULY 2018**

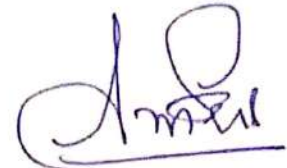
PG Department of English  
St. Mary's College, Sulthan Bathery  
Wayanad-673592

## CERTIFICATE

This is to certify that the dissertation entitled **Postcolonial aspects, A Comparative Study on *The Mimic Men* and *A House for Mr. Biswas***, submitted to Calicut University in partial fulfillment of the requirements for the award of MASTER OF ARTS IN ENGLISH is a record of original research work done by Jamsheena.K.T during the period of her study 2016-2018 in the PG Department of English, St. Mary's College, Sulthan Bathery, under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associateship/ Fellowship or any other similar titles elsewhere.

Place: Sulthan Bathery

Date: 18-07-2018



Anusheer K.R.

Head of the Department



Reshmi R Pillai

(Supervisor)



**RETURN TO NATURE: AN ANALYTICAL STUDY OF *LUCY GRAY* AND *SOLITARY REAPER* BY WILLIAM WORDSWORTH**

**DISSERTATION**

*Submitted to the University of Calicut  
in partial fulfillment of the requirements for  
the award of the Degree of*

**MASTER OF ARTS .**

**IN**

**ENGLISH LANGUAGE AND LITERATURE**

**BY**

**SONU THOMAS**

**REG.NO: SMAQMEG016**



**POST GRADUATE DEPARTMENT OF ENGLISH**

**ST. MARY'S COLLEGE (NAAC 'A' GRADE)**

**SULTHAN BATHERY**

**WAYAND-673592**

**JULY 2018**



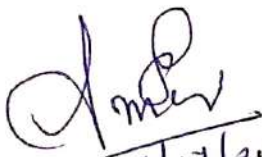
PG Department of English  
St. Mary's college, SulthanBathery  
Wayanad- 673592

## CERTIFICATE

This is to certify that the dissertation entitled **Return to Nature: An Analytical study of *Lucy Gray* and *Solitary Reaper* by William Wordsworth** ,submitted to Calicut University in Partial fulfillment of the requirements for the award of MASTER OF ARTS IN ENGLISH is a record of original research work done by Sonu Thomas during the period of his study 2016-2018 in the PG Department of English, St. Mary's College, Sulthan Bathery under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associateship/ Fellowship or any other similar titles elsewhere.

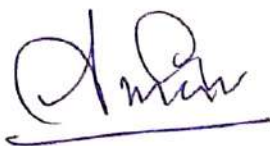
Place: SulthanBathery

Date:18/07/2018

  
19/07/2018  
Mrs. Amrutha K R

Supervisor



  
Amrutha K.R.  
Head of the Department

**PORTRAYAL OF DIFFERENT ASPECTS OF *HIJRA* LIFE WITH  
REFERENCE TO THE SELF NARRATIVES OF A. REVATHI AND  
LAXMI NARAYAN TRIPATHI.**

**DISSERTATION**

*Submitted to the University of Calicut  
In partial Fulfilment of the requirements for  
the Award for the Degree of*

**MASTER OF ARTS**

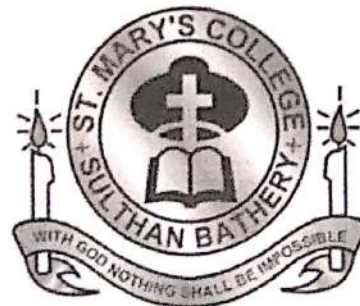
**IN**

**ENGLISH LANGUAGE AND LITERATURE**

**BY**

**AISWARYA P.R**

**REG.NO:SMAQMEG002**



**ESTD. IN 1965**

**POST GRADUATE DEPARTMENT OF ENGLISH**

**ST.MARY'S COLLEGE, SULTHAN BATHERY**

**WAYANAD-673592**

**JULY 2018**

PG Department of English

St. Marys College, Sulthan Bathery


Wayanad-673592

CERTIFICATE

This is to certify that the dissertation entitled **Portrayal of Different Aspects of Hijra Life With Reference to the Self Narratives of A. Revathi and Laxmi Narayan Tripathi** submitted to University of Calicut in partial fulfilment of the requirements for the award of degree MASTER OF ARTS IN ENGLISH is a record of original work done by **Aiswarya.P.R** during the period of her study 2016-2018 in the PG Department of English, St. Mary's College, Sulthan Bathery under the my supervision and guidance, and that the dissertation has not formed on the basis for the award of any Degree/Diploma/Associateship/Fellowship or any other similar titles elsewhere.

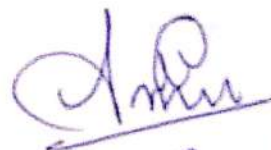
Place: Sulthan Bathery

Date: 18-07-2018

  
19/07/2018  
Amrutha K.R

(Supervisor)



  
Amrutha K.R.  
Head of the Department



**“A MAN CAN BE DESTROYED BUT NOT DEFEATED”: AN  
ANALYTICAL READING OF *THE OLD MAN AND THE SEA*  
DISSERTATION**

*Submitted to the University of Calicut  
in partial fulfillment of the requirements for  
the award of the Degree of*

**MASTER OF ARTS  
IN  
ENGLISH LANGUAGE AND LITERATURE**

**BY  
ABIN GEO BABU  
REG.NO: SMAQMEG001**



**POST GRADUATE DEPARTMENT OF ENGLISH  
ST. MARY'S COLLEGE (NAAC 'A' GRADE)  
SULTHAN BATHERY  
WAYANAD-673592  
2018**

PG Department of English  
St. Mary's college, Sulthan Bathery  
Wayanad- 673592

## CERTIFICATE

This is to certify that the dissertation entitled *A man can be Destroyed But not Defeated; an Analytical Reading of The old man and the sea*, submitted to Calicut University in Partial fulfillment of the requirements for the award of MASTER OF ARTS IN ENGLISH is a record of original research work done by Abin Geo Babu during the period of his study 2016-2018 in the PG Department of English, St. Mary's College, Sulthan Bathery under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associateship/ Fellowship or any other similar titles elsewhere.

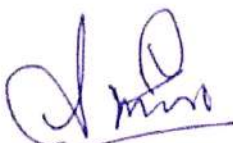
Place: Sulthan Bathery

Date: 18/07/2018

  
Mrs. Amrutha K R

Supervisor



  
Amrutha K R.  
Head of the department

**SILENCE SPEAKS: A READING OF DALIT FEMINISTIC  
ASPECTS IN BAMA'S KARUKKU**

**DISSERTATION**

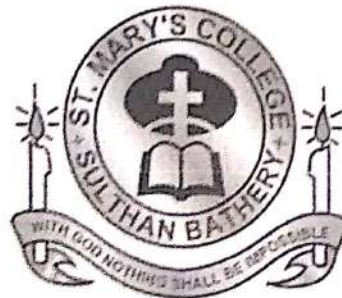
*Submitted to the University of Calicut  
in partial fulfillment of the requirements for  
the award of the Degree of*

**MASTER OF ARTS  
IN  
ENGLISH LANGUAGE AND LITERATURE**

**BY**

**HARISHMA H**

**REG.NO.SMAQMEG006**



**ESTD. IN 1965**

**POST GRADUATE DEPARTMENT OF ENGLISH**

**ST.MARY'S COLLEGE**

**SULTHAN BATHERY**

**WAYANAD-673592**

**JULY 2018**





PG Department of English

St. Mary's College, Sulthan Bathery

Wayand-673592

## CERTIFICATE

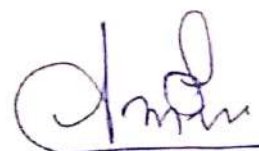
This is to certify that the dissertation entitled **SILENCE SPEAKS: A READING OF DALIT FEMINISTIC ASPECTS IN BAMA'S KARUKKU** submitted to Calicut University in Partial fulfillment of the requirements for the award of **MASTER OF ARTS IN ENGLISH** is a record of original research work done by Harishma H during the period of her study 2016-2018 in the PG Department of English, St. Mary's College, Sulthan Bathery, under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/Diploma/ Associateship/Fellowship or any other similar titles elsewhere.

Place: Sulthan Bathery

Date: 18-07-2018

  
Reshmi R Pillai

(Supervisor)



Arunsha K.R.  
Head of the Department

**FAVOURITISM: A COMPARATIVE STUDY OF WOLE  
SOYINKA'S *THE LION AND THE JEWEL* AND *DEATH AND THE  
KING'S HORSEMAN***

**DISSERTATION**

*Submitted to the University of Calicut*

*in partial fulfilment of the requirements for*

*the award of the Degree of*

**MASTER OF ARTS**

**IN**

**ENGLISH LANGUAGE AND LITERATURE**

**BY**

**AMAYA VIJAYAN**

**REG.NO: SMAQMEG003**



**POST GRADUATE DEPARTMENT OF ENGLISH**

**ST. MARY'S COLLEGE**

**SULTHAN BATHERY**

**WAYANAD -673592**

**JULY 2018**



PG Department of English

St. Mary's College, Sulthan Bathery

Wayanad - 673592

## CERTIFICATE

This is to certify that the dissertation entitled **Favouritism : A Comparative study of Wole Soyinka's *The Lion and the Jewel* and *Death and the king's Horseman***, submitted to Calicut University in partial fulfilment of the requirements for the award of MASTER OF ARTS IN ENGLISH is record of original research work done by Amaya Vijayan during the period of her study 2016-18 in the PG Department of English, St. Mary's College, Sulthan Bathery, under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associateship/ Fellowship or any other similar titles elsewhere.

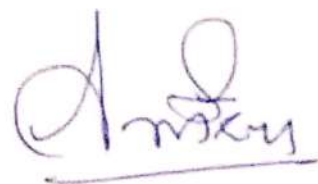
Place: Sulthan Bathery

Date: 18-07-2018

  
Reshmi R Pillai

(Supervisor)



  
Ameysha K.R.  
Head of the Department



**COMPARATIVE STUDY OF THE POEMS *THE MOSQUITO* BY  
D. H LAWRENCE, *THE MOSQUITO* BY JOHN UPDIKE, AND  
*MOSQUITOES* BY DAVID CAMPBELL**

**DISSERTATION**

*Submitted to the University of Calicut  
in partial fulfilment of the requirements for  
the award of the Degree of*

**MASTER OF ARTS**

**IN**

**ENGLISH LANGUAGE AND LITERATURE**

**BY**

**TEENA JOHN**

**REG.NO: SMAQMEG017**



ESTD. IN 1965

**POST GRADUATE DEPARTMENT OF ENGLISH**

**ST. MARY'S COLLEGE**

**WAYANAD-673595**

**JULY 2018**


**PG Department of English**  
**St. Mary's College, Sulthan Bathery**  
**Wayanad- 673592**

## **CERTIFICATE**

This is to certify that the dissertation entitled **Comparative study of the poems *The Mosquito* by D.H Lawrence, *The Mosquito* by John Updike and *Mosquitoes* by David Campbell**, submitted to Calicut University in partial fulfilment of the requirements for the award of MASTER OF ARTS IN ENGLISH is a record of original research work done by Teena John during the period of her study 2016-2018 in the PG Department of English, St. Mary's College, Sulthan Bathery, under my supervision and guidance and that the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associateship/ Fellowship or any other similar titles elsewhere.

Place: Sulthan Bathery

Date: 18-07-2018

  
Reshmi R Pillai  
(Supervisor)



  
Amritha K B  
Head of the Department

**AN ANALYSIS OF THE ROLE OF DAIRY FARMERS IN  
WAYANAD DISTRICT: A STUDY WITH SPECIAL  
REFERENCE TO PULPALLY PANCHAYATH**

**DISSERTATION**

*Submitted to the University of Calicut in partial fulfillment of the requirements*

*For the award of the degree of*

**MASTER OF ARTS**

**IN**

**ECONOMICS**

**BY**

**ANITHA JOSE A**

**REG. No: SMAQMEC001**



*Sub. 29/7/18*  
*Dr. Sreedh Krishnakumar T*  
*Asst. Professor, SNGI College*

**POST GRADUATE DEPARTMENT OF ECONOMICS**

**ST. MARY'S COLLEGE SULTHAN BATHERLY**

**Accredited by NAAC A Grade**

**WAYANAD- 673592**

**JUNE 2018**



**POST GRADUATE DEPARTMENT OF ECONOMICS  
ST. MARY'S COLLEGE (NAAC A Grade)**

**SULTHAN BATHERY  
WAYANAD-673592**



**CERTIFICATE**

This is to certify that the project entitled "AN ANALYSIS OF THE ROLE OF DAIRY FARMERS IN WAYANAD DISTRICT, A STUDY WITH SPECIAL REFERANCE TO PULPALLY PANCHAYATH." Submitted to University of Calicut in partial fulfillment of the requirement for the award of degree of MASTER OF ARTS IN ECONOMICS, is a record of original research work done by ANITHA JOSE A during the period of the study 2016-2018 in the PG Department of Economics, St. Mary's College Sulthan Bathery under my supervision and guidance, and that the dissertation has not formed that basic for the award of any Degree/ Diploma/ Associate/ Fellowship or any other similar titles elsewhere.

**Mr. Sinto. T.J**

**(Head of the Department)**

**Mr. Sinto. T.J**

**(Supervisor)**

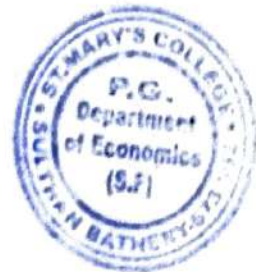
**Assistant Professor**

**PG Department of Economics**

**St. Mary's College Sulthan Bathery**

**Place:**

**Date:**



**THE ROLE OF TOURISM IN PROMOTING THE  
SOCIO-ECONOMIC DEVELOPMENT OF WAYANAD  
DISTRICT WITH SPECIAL REFERENCE TO EDAKKAL  
CAVES**

**DISSERTATION**

Submitted to the University of Calicut in partial fulfillment  
of the requirement for the award of the Degree of

**MASTER OF ARTS  
IN  
ECONOMICS**

**By**

**ASWATHY M. V.**

**Reg. No: SMAQMEC 002**



*Valued  
Signature  
Kishan K B*

**POST GRADUATE DEPARTMENT OF ECONOMICS  
ST. MARY'S COLLEGE (NAAC 'A' GRADE),  
SULTHAN BATHERY,  
WAYANAD, KERALA – 673592**

**JUNE 2018**

**POST GRADUATE DEPARTMENT OF ECONOMICS  
ST. MARY'S COLLEGE SULTHAN BATHERY  
WAYANAD, KERALA – 673592**



**CERTIFICATE**

This is to certify that the project report entitled " **The Role of Tourism in Promoting the Socio-Economic Development of Wayanad District with Special Reference to Edakkal Caves**" submitted to University of Calicut in partial fulfillment of the requirements for the award of degree of MASTER OF ARTS IN ECONOMICS is a record of original research work done by **Aswathy.M.V.** during the period of 2016-2018 in the P.G Department of Economics St. Mary's college under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/Diploma/Associateship/Fellowship or any other similar titles elsewhere.

  
**Mrs. REMYA K. R.**

(Supervisor)

Assistant professor

PG Department of Economics

St. Mary's College, Sulthan Batherly



**Prof. SINTO T. J.**

( Head of the Department )



Place :

Date :



**“A STUDY ON THE PERFORMANCE OF REGIONAL  
AGRICULTURAL RESEARCH STATION (RARS) FOR  
THE DEVELOPMENT OF AGRICULTURE SECTOR IN  
WAYANAD DISTRICT”**

**DISSERTATION**

*Submitted to University of Calicut in partial fulfillment of the requirements for  
the award of the Degree of*

**MASTER OF ARTS  
IN  
ECONOMICS**

**BY**

**ATHIRA C.R**

**REG.NO:SMAQMEC003**



**ESTD. IN 1965**

**POST GRADUATE DEPARTMENT OF ECONOMICS**

**ST.MARY'S COLLEGE**

**SULTHAN BATHERY**

**Accredited by NAAC A Grade**

**WAYANAD-673592**

**JUNE 2018**

*Valid*

**POST GRADUATE DEPARTMENT OF ECONOMICS**

**ST. MARY'S COLLEGE**

**Accredited by NAAC A Grade**

**SULTHAN BATHERY,**

**WAYANAD-673592**



**ESTD. IN 1965**

**CERTIFICATE**

This is to certify that the project entitled "A STUDY ON THE PERFORMANCE OF RARS FOR THE DEVELOPMENT OF AGRICULTURE SECTOR IN WAYANAD DISTRICT " submitted to University of Calicut in partial fulfillment of the requirements for the award of degree of MASTER OF ARTS IN ECONOMICS, is a record of original research work done by ATHIRA.C.R during the period of the study 2016-2018 in the PG Department of Economics, St. Mary's College, Sulthan Bathery Under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/Diploma/Associate/Fellowship or other similar title elsewhere.

**Mrs. Roshini Freeda Godfred**

(Supervisor)

Associate Professor

PG Department of Economics

St. Mary's College, Sulthan Bathery

**Mr. Sinto T J**

(Head of the Department)



**A STUDY ON THE SOCIO -ECONOMIC CONDITIONS  
OF THE COFFEE LABOURERS IN REGIONAL COFFEE  
RESEARCH STATION (RCRS), CHUNDALE**

**DISSERTATION**

*Submitted to the University of Calicut in partial fulfillment of the requirements for  
the award of the degree of*

**MASTER OF ARTS  
IN  
ECONOMICS**

**BY**

**IRIN JOY K. J.**

**REG. NO: SMAQMEC004**



*Valued  
K. J. Kall  
Kishanraj K. V.*

**POST GRADUATE DEPARTMENT OF ECONOMICS  
ST. MARY'S COLLEGE (NAAC 'A' GRADE),  
SULTHAN BATHERY  
WAYANAD-673592  
JUNE 2018**





**POST GRADUATE DEPARTMENT OF ECONOMICS  
ST. MARY'S COLLEGE (NAAC 'A' GRADE),  
SULTHAN BATHERY,  
WAYANAD-673592**



**CERTIFICATE**

This is to certify that the project entitled "A STUDY ON THE SOCIO-ECONOMIC CONDITIONS OF THE COFFEE LABOURERS IN REGIONAL COFFEE RESEARCH STATION (RCRS), CHUNDALE" submitted to University of Calicut in partial fulfillment of the requirements for the award of degree of MASTER OF ARTS IN ECONOMICS, is a record of original research work done by IRIN JOY K.J during the period of 2016-2018 in the PG Department of Economics, St. Mary's College, Sulthan Bathery under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/Diploma/Associate/ Fellowship or any other similar titles elsewhere.

  
Mrs. Remya K.R.  
(supervisor)

  
Mr.Sinto.T.J  
Assistant Professor  
(Head of the Department)  
PG department of  
Economics  
St. Mary's college  
Sulthan bathery

Place: *sulthan bathery.*  
Date: *24/07/2018*



**A STUDY ON THE SOCIO - ECONOMIC STATUS OF  
TEA PLANTATION WORKERS IN WAYANAD  
DISTRICT WITH SPECIAL REFERENCE TO  
PRIYADARSHINI TEA ESTATE IN MANATHAVADY**

**DISSERTATION**

*Submitted to the university of Calicut in partial fulfillment of the requirements for  
the award of the degree of*

**MASTER OF ARTS  
IN  
ECONOMICS**

**BY**

**JOLY K. J**

**REG. NO: SMAQMEC005**



*Valued  
K. J. J.*

**POST GRADUATE DEPARTMENT OF ECONOMICS**

**ST.MARYS COLLEGE (NACC 'A' GRADE),**

**WAYANAD - 673592**

**JUNE 2018**

# POST GRADUATE DEPARTMENT OF ECONOMICS

ST. MARY'S COLLEGE

SULTHAN BATHERY

WAYANAD – 673592



## CERTIFICATE

This is to certify that the project entitled **SOCIO – ECONOMIC STATUS OF TEA PLANTATION WORKERS WITH SPECIAL REFERENCE TO PRIYADARSHINI TEA ESTATE IN MANATHAVADY** submitted to Calicut university in partial fulfillment of the requirements for the award of degree of **MASTER OF ARTS IN ECONOMICS** is a record of original research work done by **JOLY K. J** during the period of her study 2016 - 2018 in the PG Department of Economics, St. Mary's college, Sulthan Bathery under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/Diploma/Associateship/Fellowship or any other similar titles elsewhere.

**Mr. Sinto.T.J**

(supervisor)

Head of the department

PG Department of Economics

St. Mary's College, Sulthan Bathery

**Sinto. T. J**

( Head of the department )



Place:

Date:



**AN ANALYSIS OF THE SOCIO ECONOMIC IMPACT  
OF ORGANIC FARMING IN WAYANAD DISTRICT: A  
STUDY BASED ON VANAMOOLIKA (ORGANIC  
WAYANAD AGRICULTURAL SOCIETY)**

**DISSERTATION**

*Submitted to the University of Calicut in partial fulfillment of the requirements for the  
award of the degree of*

**MASTER OF ARTS**

**IN**

**ECONOMICS**

**BY**

**NEETHU V.S.**

**REG.NO:SMAQMECO06**



**POST GRADUATE DEPARTMENT OF ECONOMICS**

**ST. MARY'S COLLEGE (NAAC 'A' GRADE)**

**SULTHAN BATHERY,**

**WAYANAD-673592**

**JUNE 2018**

**POST GRADUATE DEPARTMENT OF ECONOMICS  
ST. MARY'S COLLEGE (NAAC 'A' GRADE)  
SULTHAN BATHERY  
WAYANAD-673592**



**CERTIFICATE**

This is to certify that the project entitled “AN ANALYSIS OF THE SOCIO ECONOMIC IMPACT OF ORGANIC FARMING IN WAYANAD DISTRICT: A STUDY BASED ON VANAMOOLIKA (ORGANIC WAYANAD AGRICULTURAL SOCIETY)” submitted to University of Calicut in partial fulfillment of the requirement for the award of degree of **MASTER OF ARTS IN ECONOMICS**, is a record of original research work done by **NEETHU.V.S.**, during the period 2016- 2018 in the PG Department Of Economics, St. Mary's College, Sulthan Bathery Under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/Diploma/Associate/Fellowship or any other similar titles elsewhere.

**Mrs. Rejya K.R.**

(Supervisor)

Assistant Professor

PG Department of Economics

St. Mary's College, Sulthan Bathery

**Mr. Sinto T.J.**

(Head of the Department)



Place: Sulthan Bathery

Date:

**AN ANALYSIS OF CROPPING PATTERN  
TRANSFORMATION TOWARDS APPROPRIATE LAND  
USE IN WAYANAD DISTRICT WITH SPECIAL  
REFERENCE TO NENMENI PANCHAYATH**

**DISSERTATION**

*Submitted to the University of Calicut in partial fulfillment of the requirements for the  
award of the degree of*

**MASTER OF ARTS**

**IN**

**ECONOMICS**

**BY**

**SARITH BABU**

**REG.NO:SMAQMEC007**



*Valued  
Signature  
Sarith Babu*

**POST GRADUATE DEPARTMENT OF ECONOMICS**

**ST.MARY'S COLLEGE**

**(NAAC Re-Accredited with 'A' Grade)**

**SULTHAN BATHERLY**

**WAYANAD -673592**

**JUNE 2018**



**POST GRADUATE DEPARTMENT OF ECONOMICS**

**ST. MARY'S COLLEGE**

**(NAAC Re-Accredited with 'A' Grade)**

**SULTHAN BATHERY,**

**WAYANAD -673592**



**ESTD. IN 1965**

## **CERTIFICATE**

This is to certify that the project entitled **AN ANALYSIS OF CROPPING PATTERN TRANSFORMATION TOWARDS APPROPRIATE LAND USE IN WAYANAD DISTRICT WITH SPECIAL REFERENCE TO NENMENI PANCHAYATH** Submitted to University of Calicut in partial fulfillment of the requirements for the award of degree of **MASTER OF ARTS IN ECONOMICS**, is record of original research work done by **SARITH BABU** during the period of the study 2016-2018 in the PG Department of Economics, St. Mary's College Sulthan Bathery Under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/Diploma/Fellowship or any other similar titles elsewhere.

**Mr. Shinto T J**

(Supervisor)  
Assistant Professor  
PG Department of Economics  
St. Mary's College Sulthan Bathery  
Place: Sulthan Bathery  
Date :

**Shinto T J**

(Head of the Department)



**“A STUDY ON THE PERFORMANCE OF MODERN  
RESIDENTIAL SCHOOL FOR THE DEVELOPMENT OF  
TRIBAL COMMUNITIES IN WAYANAD DISTRICT: WITH  
SPECIAL REFERENCE TO KANIYAMBETTA  
PANCHAYATH”**

**DISSERTATION**

*Submitted to the University of Calicut in partial fulfillment of the requirements for the  
award of the degree of*

**MASTER OF ARTS**

**IN**

**ECONOMICS**

**BY**

**VANDANA.T**

**REG. NO: SMAQMEC008**



**POST GRADUATE DEPARTMENT OF ECONOMICS**

**ST. MARY'S COLLEGE**

**SULTHAN BATHERY**

**Accredited by NAAC 'A' Grade**

**WAYANAD -673592**

**JUNE 2018**

**POST GRADUATE DEPARTMENT OF ECONOMICS**

**ST. MARY'S COLLEGE (NAAC 'A' GRADE)**

**SULTHAN BATHERY,**

**WAYANAD -673592**



## **CERTIFICATE**

This is to certify that the project entitled **“A STUDY ON THE PERFORMANCE OF MODERN RESIDENTIAL SCHOOL FOR THE DEVELOPMENT OF TRIBAL COMMUNITIES IN WAYANAD DISTRICT : WITH SPECIAL SPECIAL REFERENCE TO KANIYAMBETTA PANCHAYATH”** Submitted to University of Calicut in partial fulfillment of the requirements for the award of degree of **MASTER OF ARTS IN ECONOMICS**, is record of original research work done by **VANDANA.T** during the period of the study 2016-2018 in the PG Department of Economics, St. Mary's College Sulthan Bathery Under my supervision and guidance, and that the dissertation has not formed the basis for the award of any Degree/Diploma/Fellowship or any other similar titles elsewhere.

**Mrs. Roshni Freeda Godfred**  
(Supervisor)  
Assistant Professor  
PG Department of Economics  
St. Mary's College Sulthan Bathery

**Sinto.TJ**  
(Head of the Department)

Place: Sulthan Bathery  
Date : 24/7/2018





# **A COMPREHENSIVE STUDY ON NATURAL RADIO ACTIVITY – BETA DECAY**

Dissertation submitted to

**University of Calicut**

*In partial fulfilment for the award*

*of the Degree of*

**Master of Science in Physics**

**July 2018**

By

**AKHIL A**

*Reg. No.: SMAQMPH001*

**Department of Physics**

St. Mary's College Sulthan Bathery



*Under the guidance*

*Of*

**MS. SENTHAMIL SLVI**

*Kudankulam Nuclear Power Plant*

*Kudankulam, Radhapuram*

*Tamil Nadu*

# BONAFIDE CERTIFICATE



This is to certify that this project entitled 'A COMPREHENSIVE STUDY ON NATURAL RADIO ACTIVITY – BETA DECAY', is the Bonafede record of independent work by 'AKHIL A'. Student of St. Marys College, Sulthan Bathery, during his period of study under my guidance and this work has not been included in any other project submitted previously for the award of any Post Graduation degree.

Supervising Guide

Ms. Senthamil Selvi  
Kudankulam Nuclear Power Plant  
Kudankulam, Radhapuram  
Tamil Nadu

Head Of The Department

Head of the Department  
P.G. Department of Physics  
St. Mary's College S. Bathery

Ms. Shibina T  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery



# **STUDY ON MATHEMATICAL FOUNDATION OF NONEXTENSIVE STATISTICAL MECHANICS WITH SPECIAL REFERENCE TO $q$ PRODUCT PROPERTIES**

Dissertation submitted to

**University of Calicut**

*In partial fulfilment for the award*

*of the Degree of*

**Master of Science in Physics**

By

**Ms. ANJALI V**

*Reg. No.: SMAQMPH002*

**Department of Physics**

St. Mary's College Sulthan Bathery



*Under the guidance*

*Of*

**MR. SREEJITH C S**

*Assistant Professor*

*Department of Physics,*

*St. Marys College, Sulthan Bathery*



# BONAFIDE CERTIFICATE



This is to certify that this project entitled ‘**STUDY ON MATHEMATICAL FOUNDATION OF NONEXTENSIVE STATISTICAL MECHANICS WITH SPECIAL REFERENCE TO  $q$  PRODUCT PROPERTIES**’, is the Bonafede record of independent work by ‘**ANJALI V**’. Student of St. Marys College, Sulthan Bathery, during his period of study under my guidance and this work has not been included in any other project submitted previously for the award of any Post Graduation degree.

Supervising Guide



Mr. Sreejith C  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery

Head Of The Department

**Head of the Department**  
**P.G. Department of Physics**  
**St. Mary's College S. Bathery**



Ms. Shibina T  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery



# **COMPARATIVE STUDY OF ONE DIMENSIONAL DIELECTIC PHOTONIC CRYSTALS AND DEFFECT PHOTONIC CRYSTALS**

Dissertation submitted to

**University of Calicut**

*In partial fulfilment for the award*

*of the Degree of*

**Master of Science in Physics**

**July 2018**

By

**ANJU GOPINATHAN**

*Reg. No.: SMAQMPH003*

**Department of Physics**

St. Mary's College Sulthan Bathery



*Under the guidance*

*Of*

**DR. BHAGYARAJ C**

*Assistant Professor*

*Department of Physics,*

*St. Marys College, Sulthan Bathery*

# BONAFIDE CERTIFICATE



This is to certify that this project entitled ‘COMPARATIVE STUDY OF ONE DIMENSIONAL DIELECTIC PHOTONIC CRYSTALS AND DEFFECT PHOTONIC CRYSTALS’, is the Bonafide record of independent work by ‘ANJU GOPINATHAN’. Student of St. Marys College, Sulthan Bathery, during her period of study under my guidance and this work has not been included in any other project submitted previously for the award of any Post Graduation degree.

Supervising Guide

Dr. Bhagyaraj C  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery

Head Of The Department

**Head of the Department**  
**P.G. Department of Physics**  
**St. Mary's College S. Bathery**

Ms. Shibina T  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery





# **COMPATIVE STUDY OF FORMANTS ESTIMATION TECHNIQUES UNDER DIFFERENT NOISY CONDITIONS**

Dissertation submitted to

**University of Calicut**

*In partial fulfilment for the award*

*of the Degree of*

**Master of Science in Physics**

By

**ARJUN A B**

*Reg. No.:* **SMAQMPH004**

**Department of Physics**

St. Mary's College Sulthan Bathery



*Under the guidance*

*Of*

**MR. SUNIL JOHN**

*Assistant Professor*

*Department of Physics,*

*St. Marys College, Sulthan Bathery*

# BONAFIDE CERTIFICATE



This is to certify that this project entitled 'COMPATIVE STUDY OF FORMANTS ESTIMATION TECHNIQUES UNDER DIFFERENT NOISY CONDITIONS', is the Bonafede record of independent work by 'ARJUN A B'. Student of St. Marys College, Sulthan Bathery, during his period of study under my guidance and this work has not been included in any other project submitted previously for the award of any Post Graduation degree.

Supervising Guide

Mr. Sunil John  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery

Head Of The Department

Ms. Shibina T  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery

**Head of the Department**  
**P.G. Department of Physics**  
**St. Mary's College S. Bathery**



# **IDENTIFICATION OF RELEVANT ACOUSTIC FEATURES FOR ACCENDIPENDENT MALAYALAM GRAPHEMES**

Dissertation submitted to

**University of Calicut**

*In partial fulfilment for the award*

*of the Degree of*

**Master of Science in Physics**

**July 2018**

By

**BHAVDEEP S**

*Reg. No.: SMAQMPH005*

**Department of Physics**

St. Mary's College Sulthan Bathery



*Under the guidance*

*Of*

**MR. SUNIL JOHN**

*Assistant Professor*

*Department of Physics,*

*St. Marys College, Sulthan Bathery*



# BONAFIDE CERTIFICATE



This is to certify that this project entitled ‘IDENTIFICATION OF RELEVANT ACOUSTIC FEATURES FOR ACCENDIPENDENT MALAYALAM GRAPHEMES’, is the Bonafede record of independent work by ‘BHAVDEEP S’. Student of St. Marys College, Sulthan Bathery, during his period of study under my guidance and this work has not been included in any other project submitted previously for the award of any Post Graduation degree.

Supervising Guide



Mr. Sunil John  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery

Head Of The Department



Ms. Shibina T  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery

**Head of the Department  
P.G. Department of Physics  
St. Mary's College S. Bathery**



# **DEVELOPMENT OF A PRINTED YAGI-UDA ANTENNA FOR WI-FI APPLICATION**

Dissertation submitted to

**University of Calicut**

*In partial fulfilment for the award*

*of the Degree of*

**Master of Science in Physics**

**July 2018**

By

**EMIL ANTONY**

*Reg. No.: SMAQMPH006*

**Department of Physics**

St. Mary's College Sulthan Bathery



*Under the guidance*

*Of*

**DR. ROHIT K RAJ**

*Assistant Professor*

*Department of Physics,*

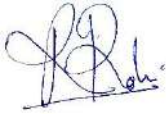
*Govt. College, Mananthavady*

# BONAFIDE CERTIFICATE



This is to certify that this project entitled ‘ELECTROMAGNETIC SIMULATION OF MUTUAL COUPLING BEHAVIOUR OF A TWO ELEMENT PRINTED YAGI ANTENNA ARRAY’, is the Bonafide record of independent work by ‘EMIL ANTONY’. Student of St. Marys College, Sulthan Bathery, during her period of study under my guidance and this work has not been included in any other project submitted previously for the award of any Post Graduation degree.

Supervising Guide



Dr. Rohit K Raj  
Assistant Professor  
Department of Electronics  
Govt. College, Mananthavady

Head Of The Department

**Head of the Department**  
**P.G. Department of Physics**  
**St. Mary's College S. Bathery**



Ms. Shibina T  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery



# **A COMPREHENSIVE STUDY ON NATURAL RADIO ACTIVITY**

Dissertation submitted to

**University of Calicut**

*In partial fulfilment for the award*

*of the Degree of*

**Master of Science in Physics**

**July 2018**

By

**IRFAN ALI K E**

*Reg. No.: SMAQMPH007*

**Department of Physics**

St. Mary's College Sulthan Bathery



*Under the guidance*

*Of*

**MS. SENTHAMIL SLVI**

*Kudankulam Nuclear Power Plant*

*Kudankulam, Radhapuram*

*Tamil Nadu*



# BONAFIDE CERTIFICATE



This is to certify that this project entitled 'A COMPREHENSIVE STUDY ON NATURAL RADIO ACTIVITY', is the Bonafede record of independent work by 'IRFAN ALI K E'. Student of St. Marys College, Sulthan Bathery, during his period of study under my guidance and this work has not been included in any other project submitted previously for the award of any Post Graduation degree.

Supervising Guide

Ms. Senthamil Selvi  
Kudankulam Nuclear Power Plant  
Kudankulam, Radhapuram  
Tamil Nadu

Head Of The Department

Head of the Department  
P.G. Department of Physics  
St. Mary's College S. Bathery

Ms. Shibina T  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery



# **ELECTROMAGNETIC SIMULATION OF MUTUAL COUPLING BEHAVIOUR OF A TWO ELEMENT PRINTED YAGI ANTENNA ARRAY**

Dissertation submitted to

**University of Calicut**

*In partial fulfilment for the award*

*of the Degree of*

**Master of Science in Physics**

**July 2018**

By

**NINU JOSEPH**

*Reg. No.: SMAQMPH008*

**Department of Physics**

St. Mary's College Sulthan Bathery



*Under the guidance*

*Of*

**DR. ROHIT K RAJ**

*Assistant Professor*

*Department of Physics,*

*Govt. College, Mananthavady*

# BONAFIDE CERTIFICATE



This is to certify that this project entitled 'ELECTROMAGNETIC SIMULATION OF MUTUAL COUPLING BEHAVIOUR OF A TWO ELEMENT PRINTED YAGI ANTENNA ARRAY', is the Bonafide record of independent work by 'NINU JOSEPH'. Student of St. Marys College, Sulthan Bathery, during her period of study under my guidance and this work has not been included in any other project submitted previously for the award of any Post Graduation degree.

Supervising Guide

Dr. Rohit K Raj  
Assistant Professor  
Department of Electronics  
Govt. College, Mananthavady

Head Of The Department

**Head of the Department**  
**P.G. Department of Physics**  
**St. Mary's College S. Bathery**

Ms. Shibina T  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery



# **STUDY OF OPTICAL PROPERTIES OF 1D PHOTONIC CRYSTALS BASED ON GRAPHENE LAYERS USING TRANSFER MATRIX METHOD**

Dissertation submitted to

**University of Calicut**

*In partial fulfilment for the award*

*of the Degree of*

**Master of Science in Physics**

**July 2018**

By

**PRIYA P V**

*Reg. No.: SMAQMPH009*

**Department of Physics**

St. Mary's College Sulthan Bathery



*Under the guidance*

*Of*

**DR. BHAGYARAJ C**

*Assistant Professor*

*Department of Physics,*

*St. Marys College, Sulthan Bathery*



# BONAFIDE CERTIFICATE



This is to certify that this project entitled ‘**STUDY OF OPTICAL PROPERTIES OF 1D PHOTONIC CRYSTALS BASED ON GRAPHENE LAYERS USING TRANSFER MATRIX METHOD**’, is the Bonafede record of independent work by ‘**PRIYA P V**’. Student of St. Marys College, Sulthan Bathery, during her period of study under my guidance and this work has not been included in any other project submitted previously for the award of any Post Graduation degree.

Supervising Guide



Dr. Bhagyaraj C  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery

Head Of The Department

**Head of the Department**  
**P.G. Department of Physics**  
**St. Mary's College S. Bathery**



Ms. Shibina T  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery



# **SYNTHESIS AND CHARACTERIZATION OF NICKEL OXIDE NANOPARTICLE**

Dissertation submitted to

**University of Calicut**

*In partial fulfilment for the award*

*of the Degree of*

**Master of Science in Physics**

**July 2018**

By

**SACHIN T OOMMEN**

*Reg. No.: SMAQMPH010*

**Department of Physics**

St. Mary's College Sulthan Bathery



*Under the guidance*

*Of*

**DR. PRAMOD K S**

*Assistant Professor*

*Department of Physics,*

*St. Marys College, Sulthan Bathery*

# BONAFIDE CERTIFICATE



This is to certify that this project entitled ‘**SYNTHESIS AND CHARACTERIZATION OF NICKEL OXIDE NANOPARTICLE**’, is the Bonafede record of independent work by ‘**SACHIN T OOMMEN**’. Student of St. Marys College, Sulthan Bathery, during his period of study under my guidance and this work has not been included in any other project submitted previously for the award of any Post Graduation degree.

Supervising Guide



Dr. Pramod K S  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery

Head Of The Department

**Head of the Department**  
**P.G. Department of Physics**  
**St. Mary's College S. Bathery**



Ms. Shibina T  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery



# **STUDY ON MATHEMATICAL FOUNDATION OF NONEXTENSIVE STATISTICAL MECHANICS AND ITS APPLICATIONS IN HIGH ENERGY PHYSICS**

Dissertation submitted to

**University of Calicut**

*In partial fulfilment for the award*

*of the Degree of*

**Master of Science in Physics**

**July 2018**

By

**Ms. SREESHMA P A**

*Reg. No.: SMAQMPH011*

**Department of Physics**

St. Mary's College Sulthan Bathery



*Under the guidance*

*Of*

**MR. SREEJITH C S**

*Assistant Professor*

*Department of Physics,*

*St. Marys College, Sulthan Bathery*



# BONAFIDE CERTIFICATE



This is to certify that this project entitled 'STUDY ON MATHEMATICAL FOUNDATION OF NONEXTENSIVE STATISTICAL MECHANICS AND ITS APPLICATIONS IN HIGH ENERGY PHYSICS', is the Bonafede record of independent work by 'SREESHMA P A'. Student of St. Marys College, Sulthan Bathery, during her period of study under my guidance and this work has not been included in any other project submitted previously for the award of any Post Graduation degree.

Supervising Guide

Mr. Sreejith C  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery

Head Of The Department

**Head of the Department**  
**P.G. Department of Physics**  
**St. Mary's College S. Bathery**

Ms. Shibina T  
Assistant Professor  
Department of Physics  
St.Marys College,S.bathery



**Green synthesis of silver nanoparticles using Mimosa Pudica Leaves and its optical characterisation**

*A Dissertation submitted to the **University of Calicut** In partial fulfilment for the award of the Degree of*

**BACHELOR OF SCIENCE IN PHYSICS**

Submitted by

Mr. Visshnu Raj	SMAPSPH041
Mr. Donald Steephan	SMAPSPH037
Mr. Emmanuel S Daniel	SMAPSPH038
Mr. Nithin Varghese P	SMAPSPH039
Mr. Abel K Paul	SMAPSPH033



**2015-2018**

**POST GRADUATE DEPARTMENT OF PHYSICS**

**St. MARY'S COLLEGE**

[Naac accredited A grade]

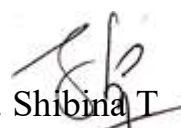
**SULTHAN BATHERLY**

**POST GRADUATE DEPARTMENT OF PHYSICS  
ST.MARY'S COLLEGE  
SULTHAN BATHERY**




**CERTIFICATE**

This is to certify that, Mr. Visshnu Raj, Mr. Donald Steephan,  
Mr. Emmanuel S Daniel, Mr. Nithin Varghese P, and Mr. Abel K Paulare are sixth semester  
B.Sc. Physics student of St.Mary's college Sulthan Bathery, Wayanad has worked on the  
project topic **“Green synthesis of silver nanoparticles using Mimosa Pudica  
Leaves and its optical characterisation”** under the guidance of Ms. Shibina. T, Asst.  
prof. Department of Physics St. Mary's college Sulthan Bathery. Being a bonafide it has been  
approved and forwarded to the University Examination of Calicut university.

  
Mr. Shibina T  
Supervising Teacher



  
Shibina T  
Head of The Department  
**Head of the Department  
P.G. Department of Physics  
St. Mary's College S. Bathery**

*A Study On physics of music with reference to Guitar*

*A Dissertation submitted to the **University of Calicut** In partial  
fulfilment for the award of the Degree of*

**BACHELOR OF SCIENCE IN PHYSICS**

Submitted by

Ms. Anitta Varghese      SMAPSPH023

Ms. Anila O C              SMAPSPH022

Ms. Hasna Sheren T K      SMAPSPH026

Ms. Akshya K Sasidharan   SMAPSPH020

Mr. Yadhukrishnan         SMAPSPH019



**2015-2018**

**POST GRADUATE DEPARTMENT OF PHYSICS**

**St.MARY'S COLLEGE**

[Naac accredited A grade]

**SULTHAN BATHERY**

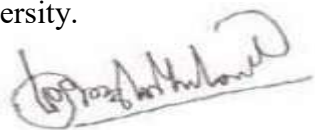


**POST GRADUATE DEPARTMENT OF PHYSICS  
ST. MARY'S COLLEGE  
SULTHAN BATHERY**

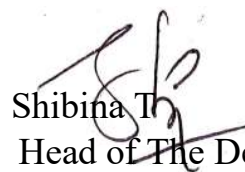


**CERTIFICATE**

This is to certify that, Ms. Anitta Varghese, Ms. Anila O C, Ms. Hasna Sheren T K, Ms. Akshya K Sasidharan and Mr. Yadhukrishnan are sixth semester B.Sc. Physics students of St. Mary's college Sulthan Bathery, Wayanad who have worked on the project topic "***A Study On physics of music with reference to Guitar***" under the guidance of Mr. Sreejith C S, Asst. prof. Department Of Physics St. Mary's college Sulthan Bathery. Being a bonafide it has been approved and forwarded to the University Examination of Calicut university.



Sreejith C S  
Supervising Teacher



Shibina T  
Head of The Department  
**Head of the Department**  
**P.G. Department of Physics**  
**St. Mary's College S. Bathery**

*Nuclear Shell Model*

*A Dissertation submitted to the **University of Calicut** In partial  
fulfilment for the award of the Degree of*

**BACHELOR OF SCIENCE IN PHYSICS**

Submitted by

Mr. Anand Vincent	SMAPSPH036
Mr. Amal Johnson	SMAPSPH035
Mr. Akhil Wilson	SMAPSPH034
Mr. Sudheesh N S	SMAPSPH040
Ms. Maya C K	SMAPSPH030



**2015-2018**

**POST GRADUATE DEPARTMENT OF PHYSICS**

**St.MARY'S COLLEGE**

[Naac accredited A grade]


**SULTHAN BATHERY**

**POST GRADUATE DEPARTMENT OF PHYSICS  
ST.MARY'S COLLEGE  
SULTHAN BATHERY**




**CERTIFICATE**

This is to certify that Mr. Anand Vincent, Mr. Amal Johnson, Mr. Akhil Wilson, Mr. Sudheesh N S, and Ms. Maya C K are sixth semester B.Sc. Physics student of St.Mary's college Sulthan Bathery, Wayanad has worked on the project topic “**Nuclear Shell Model**” under the guidance of Mr.Jayesh George Joseph, Asst. prof. Department Of Physics St .Mary's college Sulthan Bathery. Being a bonafide it has been approved and forwarded to the University Examination of Calicut university.

  
Mr.Jayesh George Joseph  
Supervising Teacher



  
Shibina T  
Head of The Department  
**Head of the Department  
P.G. Department of Physics  
St. Mary's College S. Bathery**

Basic implementation and study of gravity powered light

*A Dissertation submitted to the **University of Calicut** in partial  
fulfilment for the award of the Degree of*

**BACHELOR OF SCIENCE IN PHYSICS**

Submitted by

Ms. Mereena T Kuriyakose	SMASSPH007
Ms. Adarsh V	SMASSPH008
Ms. Krishnapriya M B	SMASSPH006
Ms. Helan Lawrence	SMASSPH005
Ms. Dinu T V	SMASSPH004



**2015-2018**

**POST GRADUATE DEPARTMENT OF PHYSICS**

**St. MARY'S COLLEGE**

[Naac accredited A grade]

**SULTHAN BATHERY**




**POST GRADUATE DEPARTMENT OF PHYSICS  
ST. MARY'S COLLEGE  
SULTHAN BATHERY**

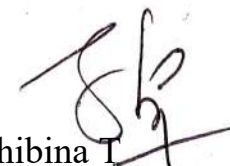


**CERTIFICATE**

This is to certify that, Ms. Mereena T Kuriyakose, Ms. Adarsh V, Ms. Krishnapriya M B, Ms. Helan Lawrence, and Ms. Dinu T V are sixth semester B.Sc. Physics student of St.Mary's college Sulthan Bathery, Wayanad has worked on the project topic **“Basic implementation and study of gravity powered light”** under the guidance of Dr. BhagyarajC, Asst. prof. Department Of Physics St .Mary's college Sulthan Bathery. Being a bonafide it has been approved and forwarded to the University Examination of Calicut university.

  
Dr. Bhagyaraj C  
Supervising Teacher



  
Shibina T  
Head of The Department  
**Head of the Department**  
**P.G. Department of Physics**  
**St. Mary's College S. Bathery**

**Construction and analysis of wildlife detectors using different sensors**  
*A Dissertation submitted to the **University of Calicut** in partial  
fulfilment for the award of the Degree of*  
**BACHELOR OF SCIENCE IN PHYSICS**

Submitted by

Mr. Anil Kumar P K	SMAPSPH009
Ms. Arjun C M	SMAPSPH010
Mr. Christo Kurian M George	SMAPSPH011
Ms. Staniya Thomas	SMAPSPH032
Ms. Sandra Maria Joby	SMAPSPH031



**2015-2018**

**POST GRADUATE DEPARTMENT OF PHYSICS**

**St. MARY'S COLLEGE**

[Naac accredited A grade]


**SULTHAN BATHERY**

**POST GRADUATE DEPARTMENT OF PHYSICS  
ST. MARY'S COLLEGE  
SULTHAN BATHERY**




**CERTIFICATE**

This is to certify that, Mr. Anil Kumar P K, Ms. Arjun C M, Mr. Christo Kurian M George, Ms. Staniya Thomas, and Ms. Sandra Maria Joby are sixth semester B.Sc. Physics student of St.Mary's college Sulthan Bathery, Wayanad has worked on the project topic "**Construction and analysis of wildlife detectors using different sensors**" under the guidance of Dr. Joby N G, Asst. prof. Department Of Physics St .Mary's college Sulthan Bathery. Being a bonafide it has been approved and forwarded to the University Examination of Calicut university.

  
Dr. Joby N G  
Supervising Teacher



  
Shibina T  
Head Of The Department  
**Head of the Department  
P.G. Department of Physics  
St. Mary's College S. Bathery**

**Comparative Evaluation of Various Soils in Wayanad: Special Focus on  
Plasticity, Firmness, Toughness and Colour**

*A Dissertation submitted to the **University of Calicut** in partial  
fulfilment for the award of the Degree of*

**BACHELOR OF SCIENCE IN PHYSICS**

Submitted by

Mr. Jibin Jose	SMAPSPH012
Mr. Vivek K P	SMAPSPH018
Mis. Apaarna Dayal	SMAPSPH025
Ms. Amrutha Venugopal	SMAPSPH021
Mr. Jithin P C	SMAPSPH013



**2015-2018**

**POST GRADUATE DEPARTMENT OF PHYSICS**

**St.MARY'S COLLEGE**

[Naac accredited A grade]

**SULTHAN BATHERLY**

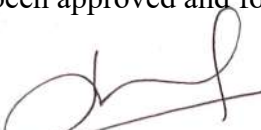


**POST GRADUATE DEPARTMENT OF PHYSICS  
ST. MARY'S COLLEGE  
SULTHAN BATHERY**



**CERTIFICATE**

This is to certify that, Mr. Jibin Jose, Mr. Vivek K P, Mis. Apaarna Dayal, Ms. Amrutha Venugopalare and Mr. Jithin P C, are sixth semester B.Sc. Physics student of St.Mary's college Sulthan Bathery, Wayanad has worked on the project topic **“Comparative Evaluation of Various Soils in Wayanad: Special Focus on Plasticity, Firmness, Toughness and Colour”** under the guidance of Dr. Pramod K S, Asst. prof. Department Of Physics St .Mary's college Sulthan Bathery. Being a bonafide it has been approved and forwarded to the University Examination of Calicut university.

  
Dr. Pramod K S  
Supervising Teacher



  
Shibina T  
Head of The Department

**Head of the Department  
P.G. Department of Physics  
St. Mary's College S. Bathery**

**Covariant and Contravariant Vectors**

*A Dissertation submitted to the **University of Calicut** in partial  
fulfilment for the award of the Degree of*

**BACHELOR OF SCIENCE IN PHYSICS**

Submitted by

Ms. Amrutha V M	SMAPSPH001
Ms. Aswathy K S	SMAPSPH002
Ms. Athira T	SMAPSPH003
Mr. Christo Kurian M George	SMAPSPH011
Mr. Jyothis K Jose	SMAPSPH014
Mr. Neeraj S	SMAPSPH015



**2015-2018**

**POST GRADUATE DEPARTMENT OF PHYSICS**

**St. MARY'S COLLEGE**

[Naac accredited A grade]

**SULTHAN BATHERY**

**POST GRADUATE DEPARTMENT OF PHYSICS  
ST. MARY'S COLLEGE  
SULTHAN BATHERY**



**CERTIFICATE**

This is to certify that, Ms. Amrutha V M, Ms. Aswathy K S, Ms. Athira T, and Mr. Christo Kurian M Georgeare, Mr. Jyothis K Jose, and Mr. Neeraj S sixth semester B.Sc. Physics student of St.Mary's college Sulthan Bathery, Wayanad has worked on the project topic **“Covariant and Contravariant Vectors”** under the guidance of Mr. Fabin Varghese T V, Asst. prof. Department Of Physics St .Mary's college Sulthan Bathery. Being a bonafide it has been approved and forwarded to the University Examination of Calicut university.

Mr. Fabin Varghese T V  
Supervising Teacher



Shibina T  
Head of The Department  
**Head of the Department  
P.G. Department of Physics  
St. Mary's College S. Bathery**

**Study of pitch variation of Malayalam vowels with different age and sex**

*A Dissertation submitted to the **University of Calicut** in partial  
fulfilment for the award of the Degree of*

**BACHELOR OF SCIENCE IN PHYSICS**

Submitted by

Ms. Jeena K	SMAPSPH027
Ms. Kavya Ganesh	SMAPSPH028
Ms. Liya Lalu	SMAPSPH029
Mr. Sooraj K S	SMAPSPH017
Mr. Ssivaprasd P C	SMAPSPH016



**2015-2018**

**POST GRADUATE DEPARTMENT OF PHYSICS**

**St.MARY'S COLLEGE**

[Naac accredited A grade]

**SULTHAN BATHERLY**




**POST GRADUATE DEPARTMENT OF PHYSICS  
ST. MARY'S COLLEGE  
SULTHAN BATHERY**




**CERTIFICATE**

This is to certify that, Ms. Jeena K, Ms. Kavya Ganesh, Ms. Liya Lalu, Mr. Sooraj K S, and Mr. Ssivaprasd P C, are sixth semester B.Sc. Physics student of St.Mary's college Sulthan Bathery, Wayanad has worked on the project topic "**Study of pitch variation of Malayalam vowels with different age and sex**" under the guidance of Mr. Sunil John, Asst. prof. Department of Physics St. Mary's college Sulthan Bathery. Being a bonafide it has been approved and forwarded to the University Examination of Calicut university.

  
Mr. Sunil John  
Supervising Teacher



  
Shibina T  
Head of The Department  
Head of the Department  
P.G. Department of Physics  
St. Mary's College S. Bathery