

Animating Humanity: The Role of Anthropomorphism in *Kung Fu Panda*
and *Mickey Mouse Clubhouse*

A Dissertation Submitted to Mahatma Gandhi University, Kottayam, Kerala

In partial fulfillment of the requirements for the award of the

Master of Arts in English Language and Literature

Submitted by,

Stanly Sabu

(Reg.No. 220011028556)

Under the Supervision and Guidance of

Ms. Sheethal Sushama.S



ESTD. 1981

Postgraduate Department of English

St. Mary's College, Manarcaud

June 2024

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Anush
25/7/24

**Unheard Voices: Re-examining Subalternity in Kadangot Makkam and
Neeliyar Bhagavathi Theyyam, a Contemporary Reflection**

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

in partial fulfillment of the requirements for the award of the

Master of Arts in English Language and Literature

Submitted by,

Hadiya J.S

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Ms. Divya George

Assistant Professor



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Patriarchy in Theory and Cultural Milieu: A Critique of Leena Yadav's *Parched*
and Abhishek Shah's *Hellaro*

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

in partial fulfillment of the requirements for the award of

Master of Arts in English Language and Literature

Submitted by

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Tumbbad's Whispers of the Unknown: Unveiling the Magic of the Unseen

A Dissertation Submitted to Mahatma Gandhi University, Kottayam, Kerala

In partial fulfillment of the requirements for the award of the

Master of Arts in English Language and Literature

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Creating a New Self: A Postcolonial Critique of Chimamanda Ngozi Adichie's

Half of a Yellow Sun and Americanah

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

In partial fulfilment of the requirements for the award of the

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Unravelling Subalternity in Ramayana: Reflections from Kavita Kane's

Sita's Sister and Lanka's Princess

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

in partial fulfillment of the requirements for the award of the

Master of Arts in English Language and Literature

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Diasporic Dilemmas: Caste, Class and Cultural Identity in *Desirable*

Daughters and The Lowland

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

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Master of Arts in English Language and Literature

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July 2024

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"Breaking Silence: An Examination of Queer Trauma in

Gender Queer and We are Okay"

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

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Empowering Voices: The Sensitive and Realistic Portrayal of Acid Attack

Survivors in *Chhapaak* and *Uyare*

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

In partial fulfilment of the requirements for the award of the

Master of Arts in English Language and Literature

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Beyond the Human: A Posthumanist Reading of Jennifer Haley's

The Nether and Jordan Harrison's *Marjorie Prime*

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

in partial fulfillment of the requirements for the award of the

Master of Arts in English Language and Literature

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കാതൽ ദി കോർ എന്ന മലയാളം സിനിമ
മുന്നോട്ടുവെക്കുന്ന സാമഹ്യ പ്രശ്നങ്ങൾ - ഒരു പഠനം

Dissertation

Submitted to the Mahatma Gandhi University

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

Master of Arts in Historical Studies

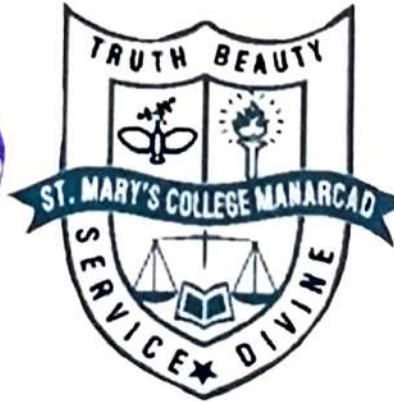
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ARYA.R

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Under the supervision of

Shine O.V



**P.G DEPARTMENT OF HISTORY
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KOTTAYAM

JULY 2024

Dr. Shine O.V
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Dr. Shine O.V

TRACKS OF THE EMPIRE IN MALABAR: FROM BEYPORE TO TIRUR

Dissertation

Submitted to the Mahatma Gandhi University

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

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**P. G. DEPARTMENT OF HISTORY
ST. MARY'S COLLEGE, MANARCAUD
KOTTAYAM**

JULY 2024

കുനായി തൊമ്മൻ ചെപ്പേടിൻ്റെ അടിസ്ഥാനത്തിൽ

കുനാനായ കുടിയേറ്റ ചരിത്രം: ഒരു വിശദ പഠനം

Dissertation

Submitted to the Mahatma Gandhi University

In partial fulfillment of the requirement for the award of degree of Master of Arts in

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BY

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JULY 2024



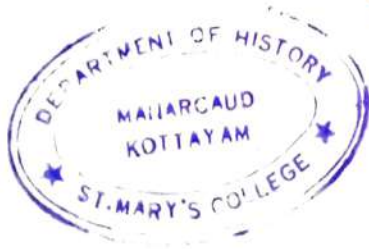
നീലംപേരൂർ പ്രളയം 2018 ഓർമ്മകൾ: ചരിത്രം,
വർത്തമാനം, ഓർമ്മ

Dissertation Work

*Submitted to Mahathma Gandhi University in partial Fulfilment of the requirements for
the award of the Degree of Master of Arts in Historical Studies*

KEERTHANA RAJKUMAR

(Reg No: 220011033000)



Under the supervision of

Mr. MOIDEEN. C.

PG Department of History

St. Mary's College, Manarcaud

July 2024

Dr. Beena Paul
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കിഴാളു ജീവിതവുഢ
ക്രിസ്ത്യൻ മിഷണറിമാരൂഢ

DISSERTATION

Submitted to the Mahatma Gandhi University

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

Master of Arts in Historical Studies

BY

NIJU ANILKUMAR

Reg. No: 220011033001

Under the supervision of

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Niju Anilkumar
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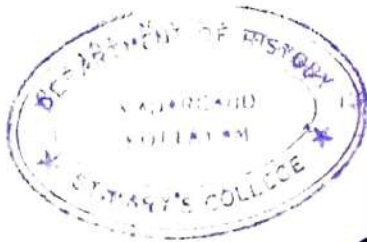
നാടുവാഴിത്തം, മരുമക്കത്തായം,
സ്ത്രീ സ്വാധീനം: അറക്കൽ രാജവംശം
ഒരു പഠനം

*Dissertation submitted to Mahatma Gandhi University in partial fulfillment
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By
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POST GRADUATE DEPARTMENT OF HISTORICAL STUDIES
ST. MARY'S COLLEGE MANARCAD
2024

ഖാദി ഗ്രാമ വ്യവസായത്തിന്റെ സാമൂഹിക -
സാമ്പത്തിക സ്ഥിതി: ഇലന്തൂർ ഖാദി യൂണിറ്റ് ഒരു
വിശദപഠനം.

*Dissertation submitted to Mahatma Gandhi University in partial fulfillment for the award of the
degree of Masters of Arts in Historical Studies*

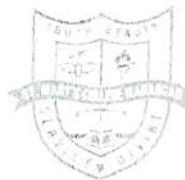
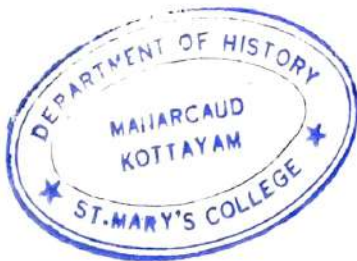
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കോവിഡ് 19: അനുഭവ ചരിത്രത്തിന്റെ
ആർക്കൈവുകൾ

Dissertation

Submitted to the Mahatma Gandhi University

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

Master of Arts in Historical Studies

BY

SANJU PHILIP

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**P. G. DEPARTMENT OF HISTORY
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കേരള നവോത്ഥാനം : അയ്യൻകാളി ഒരു പഠനം

Dissertation submitted to Mahatma Gandhi University in partial
fulfilment for the award of the degree of Masters of Art in Historical Studies

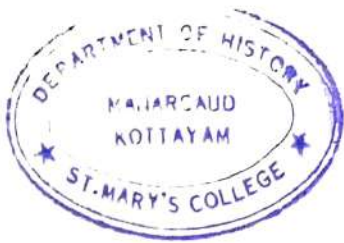
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SEBIMOL BABU

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KOTTAYAM - KERALA

Dr. Beena Paul
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കൊളോണിയൽ “അടിമത്ത കാലത്തെ”

കാപ്പിരി മുത്തപ്പൻ - ഒരു പഠനം

DISSERTATION

Submitted to the Mahatma Gandhi University

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P.G DEPARTMENT OF HISTORY

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Contribution of Moothans in the Society with special Reference to Palakkadu

*A Dissertation submitted in partial fulfilment of the requirements
for the award of the degree of*

Master of Arts in Historical Studies

By

SHEFIN SABU

(Reg No:220011033008)

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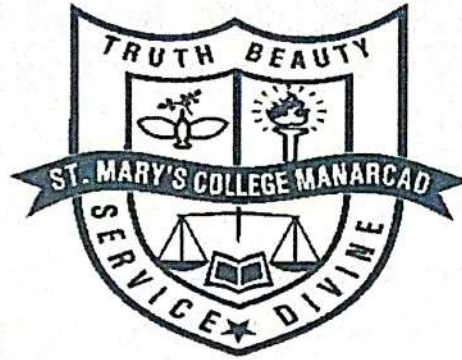


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JUNE, 2024

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ST MARY'S COLLEGE
MANARCAUD**

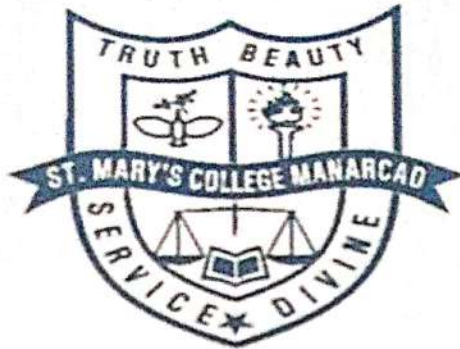


DEPARTMENT OF ZOOLOGY

**STUDY ON SPIDER DIVERSITY IN VECHOR PANCHAYATH,
KOTTAYAM**

**Submitted by
VARSHAMOLS
(Reg no:220011016924)**

Dissertation submitted to the Mahatma Gandhi University
In partial fulfilment of the requirements of the award of Master's degree in
zoology



CERTIFICATE

This is to certify that dissertation entitled "STUDY ON SPIDER DIVERSITY IN VECHOOR PANCHAYATH, KOTTAYAM" is an authentic work carried out by VARSHAMOLS in partial fulfilment of the award of Master's degree in Zoology by the Mahatma Gandhi University and that no part of this work has been submitted of any degree or diploma.

Internal Guide

Mrs Neethu S Mohanan

Head of the department

Mrs Niecy Abraham



Certified that we had examined the candidate in the project viva - voce examination held at St Mary's college Manarcaud.

Valuing examiners

1.

Dr. Deepthi S.R.

2.

Dr. Ambili T.R.

MAHATMA GANDHI UNIVERSITY
ST. MARY'S COLLEGE
MANARCAUD



DEPARTMENT OF ZOOLOGY

INSECT ATTRACTION TO ARTIFICIAL LIGHT SOURCES:
A COMPARATIVE STUDY OF DIVERSITY

submitted by

NEERAJA P R

Reg.no. 220011016922

*Dissertation submitted to Mahatma Gandhi University
in partial fulfilment for the award of the degree of*

MASTER OF SCIENCE IN ZOOLOGY



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This is to certify that the dissertation entitled "INSECT ATTRACTION TO ARTIFICIAL LIGHT SOURCES: A COMPARATIVE STUDY OF DIVERSITY" is an authentic work carried out by NEERAJA P R in partial fulfilment of the award of Master of Science in Zoology by Mahatma Gandhi University and that no part of this work has been submitted of any degree or diploma.

Internal Guide

Mrs Neethu S Mohanan

For the head of the department

Mrs Niecy Abraham

Certified that we had examined the candidate in the project viva-voice examination held at St Mary's College Manarcadu on.....24/7/24..

Examiners

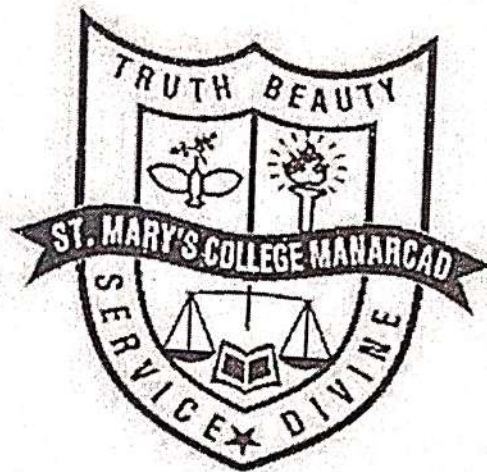
1. Dr. Deepthi G.R

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24/7/24

**MAHATMA GANDHI UNIVERSITY
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DEPARTMENT OF ZOOLOGY

**COMPARATIVE STUDY OF ANT BIODIVERSITY IN
KOZHA AND MANARCAUD**

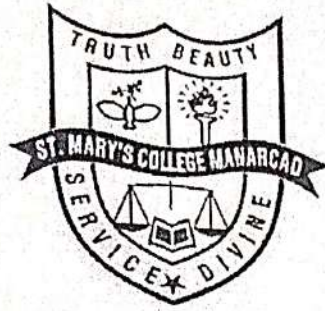
submitted by

ANUJA T.S.

Reg.no. 220011016917

*Dissertation submitted to Mahatma Gandhi University
in partial fulfilment for the award of the degree of*

MASTER OF SCIENCE IN ZOOLOGY



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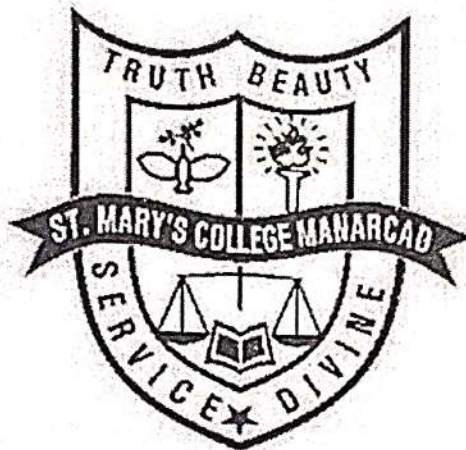


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**MAHATMA GANDHI UNIVERSITY
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MANARCAUD**



DEPARTMENT OF ZOOLOGY

**A STUDY ON ACCUMULATION OF HEAVY METALS IN
THE TISSUES OF FISHES FROM MEENACHIL RIVER**

submitted by

AKHIL MARTIN

Reg.no. 220011016913

*Dissertation submitted to Mahatma Gandhi University
- in partial fulfilment for the award of the degree of*

MASTER OF SCIENCE IN ZOOLOGY



CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON ACCUMULATION OF HEAVY METALS IN THE TISSUES OF FISHES FROM MEENACHIL RIVER" is an authentic work carried out by AKHIL MARTIN in partial fulfilment of the award of Master of Science in Zoology by Mahatma Gandhi University and that no part of this work has been submitted of any degree or diploma.

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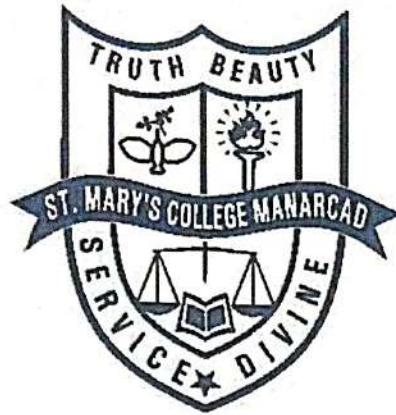


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**MAHATMA GANDHI UNIVERSITY
ST. MARY'S COLLEGE
MANARCAUD**



**DEPARTMENT OF ZOOLOGY
QUALITY ANALYSIS OF DIFFERENT
RAW MILK AND PACKED MILK**

Project was undertaken at

Submitted by

ATHULYA K SUDHAKARAN

(REG NO: 220011016918)

Dissertation submitted to the Mahatma Gandhi University in partial fulfilment of the requirements of the award of Master's Degree in Zoology

DEPARTMENT OF ZOOLOGY



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This is to certify that dissertation entitled “**Quality Analysis of Different Raw Milk And Packed Milk**” being submitted by **Athulya K Sudhakaran** to Mahatma Gandhi University, Kottayam in partial fulfilment of the requirement for the award of Master’s degree in Zoology by the Mahatma Gandhi University and that no part of this work has been submitted of any degree or diploma.

Internal guide

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For the head of the department

Mrs. Niecy Abraham

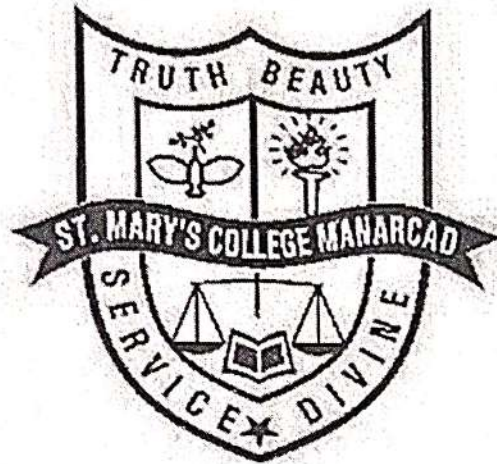
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Valuing examiners

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2. Dr. Ambili T.R. 23/7/24



**MAHATMA GANDHI UNIVERSITY
ST. MARY'S COLLEGE
MANARCAUD**



DEPARTMENT OF ZOOLOGY

**THE STUDY ON THE LARVICIDAL EFFECT OF HERBAL
EXTRACTS AGAINST MOSQUITO LARVAE**

submitted by

ALJO JOSE

Reg.no. 220011016914

*Dissertation submitted to Mahatma Gandhi University
in partial fulfilment for the award of the degree of*

MASTER OF SCIENCE IN ZOOLOGY



CERTIFICATE

This is to certify that the dissertation entitled "THE STUDY ON THE LARVICIDAL EFFECT OF HERBAL EXTRACTS AGAINST MOSQUITO LARVAE" is an authentic work carried out by ALJO JOSE in partial fulfilment of the award of Master of Science in Zoology by Mahatma Gandhi University and that no part of this work has been submitted of any degree or diploma.

Internal Guide

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For the head of the department

Mrs Niecy Abraham



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23/7/24

**MAHATMA GANDHI UNIVERSITY
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DEPARTMENT OF ZOOLOGY

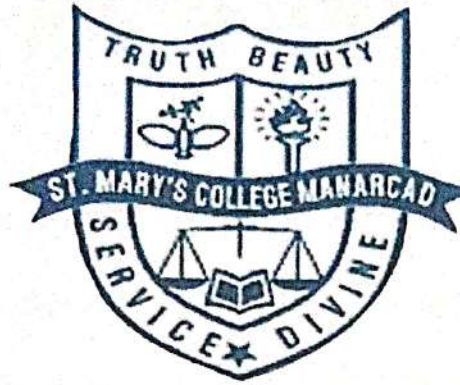
WHEY PROTEIN AS A FOOD PRESERVATIVE

Submitted by

ADITHYA.S

(Reg no:220011016912)

*Dissertation submitted to the Mahatma Gandhi University
In partial fulfilment of the requirements of the award of Master's
degree in zoology*



CERTIFICATE

This is to certify that dissertation entitled “**WHEY PROTEIN AS A FOOD PRESERVATIVE**” is an authentic work carried out by **ADITHYA S** in partial fulfilment of the award of Master’s degree in Zoology by the Mahatma Gandhi University and that no part of this work has been submitted of any degree or diploma.

Internal Guide

Mrs Neethu S Mohanan

For the head of the department

Mrs Niecy Abraham

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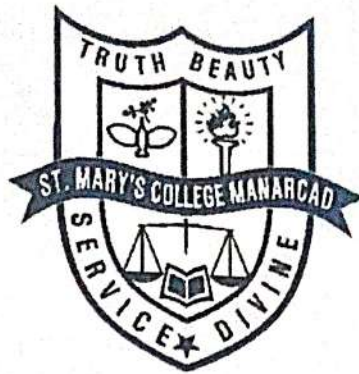
Valuing examiners

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2. Dr. Ambili T.R.



**COMPARISON OF THE THREE CURDS OBTAINED
FROM COW , GOAT AND SOYA MILK ON THE BASIS
OF PROTEIN CONTENT AND BACTERIAL COUNT**



*Project report submitted to the Mahatma Gandhi University for partial
fulfilment of the requirements for the award of Master of Degree in
Zoology under the faculty of Science .*

Submitted By ,

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Reg . No : 220011016921

Under the guidance of

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St . Mary 's College , Manarcaud

DEPARTMENT OF ZOOLOGY

ST . MARY ' S COLLEGE , MANARCAUD

(Affiliated to Mahatma Gandhi University)

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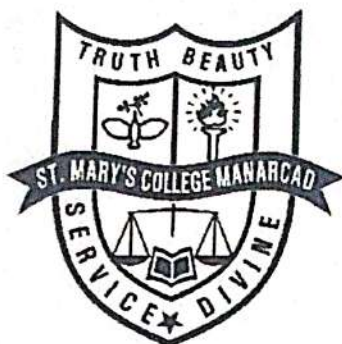
2022 – 2024

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DEPARTMENT OF ZOOLOGY

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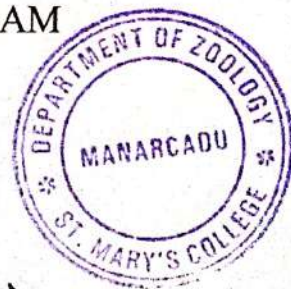


CERTIFICATE

This is to certify that the project " COMPARISON OF THE THREE CURDS OBTAINED FROM COW , GOAT AND SOYA MILK ON THE BASIS OF PROTEIN CONTENT AND BACTERIAL COUNT " submitted to Mahatma Gandhi University , Kottayam in partial fulfilment of the requirement for the award of the degree of Master of Zoology by MEGHA ANNA AJI is an original individual work carried out by her , under my guidance and supervision .

Mrs . NIECY ABRAHAM

Nicy Supervisor



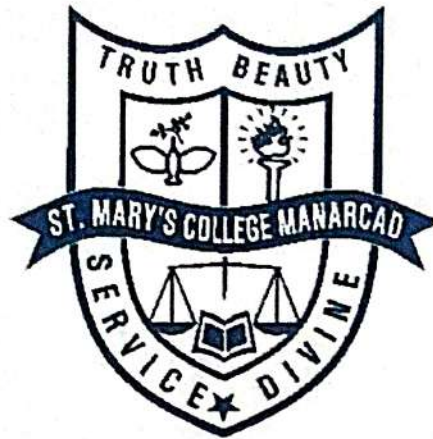
Countersigned by ,

Dr. Deepthi G.R. *Deepthi*
24/7/24

Ally
FOR Head of the Department

Dr. Ambika T.R. *Ambika*
24/7/24

**MAHATMA GANDHI UNIVERSITY
ST. MARY'S COLLEGE
MANARCAUD**



DEPARTMENT OF ZOOLOGY

**A STUDY ON BIOLOGICAL ASPECTS OF SELECTED FISH SPECIES
IN VEMBANAD LAKE**

SUBMITTED BY

**KAVYA. P. S
(REG NO:220011016920)**



**Dissertation submitted to the Mahatma Gandhi University in partial fulfilment of the
requirements of the award of Master's degree in Zoology**

DEPARTMENT OF ZOOLOGY

2024



CERTIFICATE

This is to certify that the thesis entitled "A STUDY ON BIOLOGICAL ASPECTS OF SELECTED FISH SPECIES IN VEMBANAD LAKE" being submitted by Kavya P S to Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the award of the degree of master of Zoology in St. Mary's College, Manarcaud during 2022-2024 and no parts of the thesis has formed the basis for the award of any degree.

Internal Guide

(Mrs. NEETHU S MOHANAN)

For
Head of the Department

(Mrs. NIECY ABRAHAM)

Certified that we examined the candidate in the project viva-voice examination held at

St. Mary's College Manarcaud on 24/7/24

Examiners

1. Dr. Deepthi G.R

24/7/24

2. Dr. Ambili T.R.

24.7.24

**DIVERSITY AND TAXONOMICAL STUDY OF PEST
IN SELECTED VEGETABLE CROPS OF WAYANAD DISTRICT**



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Master of Degree in Zoology under the faculty of science

Submitted By

Shinto K Johnson

(Reg no:210011016923)

Department of Zoology

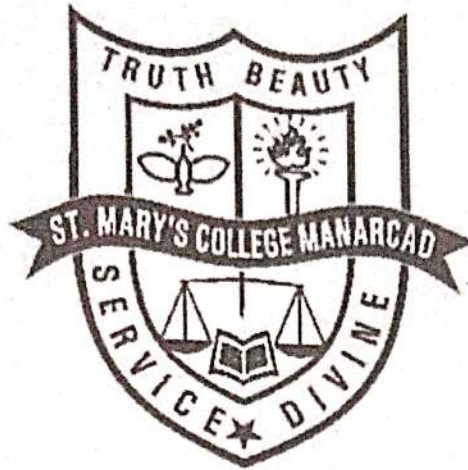
St Mary's College, Manarcadu.

(Affiliated to Mahatma Gandhi University)

Kottayam

2022-2024





CERTIFICATE

This is to certify that the thesis entitled "DIVERSITY AND TAXONOMICAL STUDY OF PESTS IN SELECTED VEGETABLE CROPS OF WAYANAD DISTRICT" being submitted by Shinto K Johnson to Mahatma Gandhi University, Kottayam in partial fulfilment of the requirement for the award of the degree of master of Zoology in St. Mary's College Manarcadu during 2022-2024 and no part of thesis has formed the basis for the award of any degree.

Place : Manarcadu

Date : 4/6/24

Valamed Joy

1) Dr. Deepthi . G . R *[Signature]*
24/7/24

2. Dr. Ambili T.R. *[Signature]*
24.07.24

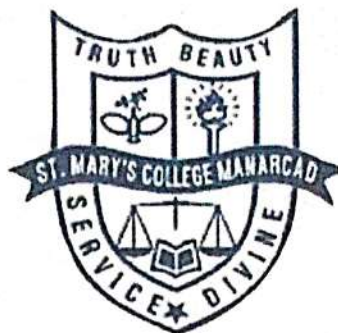
[Signature]
Niecey Abraham



MAHATMA GANDHI UNIVERSITY

ST. MARY'S COLLEGE

MANARCADU



DEPARTMENT OF ZOOLOGY

**EVALUATION OF DIFFERENT BRANDS OF SUNSCREEN USING
PHYTOCHEMICAL, ANTIMICROBIAL AND ANTIOXIDANT TESTS**

SUBMITTED BY

AMALA JAIMON

(REG NO: 220011016915)

**Dissertation submitted to the Mahatma Gandhi University in partial fulfilment of the
requirements of the award of Master's degree in Zoology**

DEPARTMENT OF ZOOLOGY

2024



CERTIFICATE

This is to certify that dissertation entitled "EVALUATION OF DIFFERENT BRANDS OF SUNSCREEN USING PHYTOCHEMICAL, ANTIMICROBIAL AND ANTIOXIDANT TESTS" is an authentic work carried out by AMALA JAIMON in partial fulfilment of the award of Master's degree in Zoology by the Mahatma Gandhi University and that no part of this work has been submitted for award of any degree or diploma.

Internal Guide

(Mrs. NIECY ABRAHAM)

For
Head of the Department

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St Mary's College Manarcadu on .23.07.2024

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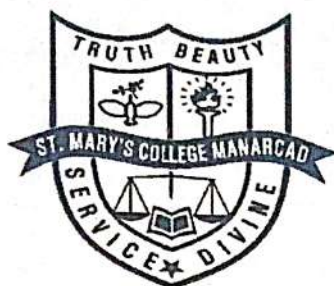
2. Dr. Ambili T.R.

Deepthi G.R
23/7/24

Ambili T.R.
23/7/24



A STUDY ON ADSORPTIVE REMOVAL OF HEAVY METALS BY BANANA, ORANGE, LEMON AND POTATO PEELS



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Master of Degree in Zoology under the faculty of science

Submitted by,

Anita Joy

220011016916

Under the guidance of

Mrs. Niecy Abraham

(Lecture Department of zoology)

St. Mary's college Manarcaud

DEPARTMENT OF ZOOLOGY

ST. MARY'S COLLEGE MANARCAUD

(Affiliated to Mahatma Gandhi University)

Kottayam

2022-2024

ST. MARY'S COLLEGE
MANARCAUD

DEPARTMENT OF ZOOLOGY

(Affiliated to M. G University, Kottayam)



CERTIFICATE

This is to certify that the project "A STUDY ON ADSORPTIVE REMOVAL OF HEAVY METALS BY BANANA, ORANGE, LEMON AND POTATO PEELS submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of the requirement of award of master of Zoology by ANITA JOY is an original individual work carried out by her, under my guidance and supervision.

Mrs. NIECY ABRAHAM

Supervisor

For Head of the Department

Countersigned By,

1) Dr. Deepthi G.R.

2) Dr. Ambili T.R.



A STUDY ON IMPACT OF NPA ON SCHEDULED COMMERCIAL BANKS

PROJECT REPORT

*Submitted to Mahatma Gandhi University
for the partial fulfilment of the
Requirements for the Degree of Master of Commerce*

By

ASWATHY SATHEESH

Reg. No:220011005041

Under the guidance of

NISHA M ABRAHAM, M. Com

Assistant Professor



**P. G. DEPARTMENT OF COMMERCE
ST. MARY'S COLLEGE MANARCAD**

20 MAY 2024

**PERCEIVED ATTITUDE OF YOUTH TOWARDS
CRYPTOCURRENCY INVESTMENT WITH
SPECIAL REFERENCE TO KOTTAYAM TOWN**

PROJECT REPORT

*Submitted to Mahatma Gandhi University
for the partial fulfilment of the
Requirements for the Degree of Master of Commerce*

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P. G. DEPARTMENT OF COMMERCE

ST. MARY'S COLLEGE MANARCAUD

20 MAY 2024

**LONGITUDAL ANALYSIS OF FINANCIAL
PERFORMANCE OF SELECTED INSURANCE
COMPANIES USING CAMELS MODEL**

PROJECT REPORT

*Submitted to Mahatma Gandhi University
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P. G. DEPARTMENT OF COMMERCE

ST. MARY'S COLLEGE MANARCAUD

20 MAY 2024

COMPARATIVE ANALYSIS OF MUTUAL FUND SCHEMES – A STUDY ON TOP 5 MIDCAP EQUITY FUNDS

PROJECT REPORT

*Submitted to Mahatma Gandhi University
for the partial fulfilment of the
Requirements for the Degree of Master of Commerce*

By

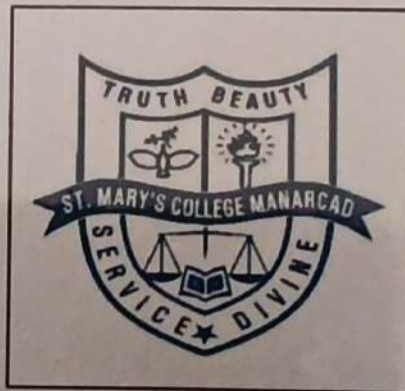
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P. G. DEPARTMENT OF COMMERCE

ST. MARY'S COLLEGE MANARCAD

20 MAY 2024

SYNTHESIS, CHARACTERISATION AND METAL ION SENSING APPLICATION OF BIODERIVED CARBON DOT

Project report submitted to Mahatma Gandhi University Kottayam in partial fulfilment for the award of degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted by

AMRUTHA SURESH

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ST. MARY'S COLLEGE MANARCAUD



Under the guidance of

Prof. (Dr) SURESH MATHEW



SCHOOL OF CHEMICAL SCIENCE

MAHATMA GANDHI UNIVERSITY

KOTTAYAM

JULY 2024

**ZIF-8 DERIVED ZnO/MoS₂ COMPOSITE WITH
ENHANCED PHOTOCATALYTIC ACTIVITY**

**Project report submitted to Mahatma Gandhi University, Kottayam, in
partial fulfillment of requirements for the award of the degree of**

MASTER OF SCIENCE

In

CHEMISTRY

SUBMITTED BY

ASHIN ABRAHAM

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**POSTGRADUATE DEPARTMENT OF CHEMISTRY
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School of Chemical Sciences
Mahatma Gandhi University
Priyadarshini Hills P.O
Kottayam, Kerala - 686 560
JULY 2024

**ANALYTICAL STUDY ON PHYSICAL, CHEMICAL AND
MECHANICAL PROPERTIES OF NATURAL RUBBER
VULCANIZATE WITH PCC AS FILLER**

*Dissertation submitted to Mahatma Gandhi University in partial fulfillment for
the award of the degree of*

MASTER OF SCIENCE IN CHEMISTRY

ANNMARIYA PETER

REG No-220011011642



POSTGRADUATE DEPARTMENT OF CHEMISTRY

ST.MARY'S COLLEGE, MANARCAUD

GUIDED BY

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CHENGANACHERRY

THERMO RESPONSIVE SHAPE MEMORY POLYURETHANE NANOCOMPOSITES FOR SHAPE MEMORY APPLICATIONS

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

SUBMITTED BY

SHAHANA SHANAVAS

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Under the supervision of

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School of Chemical Sciences
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Kottayam, Kerala
686 560

***Acalypha indica* DERIVED CARBON
QUANTUM DOTS FOR HIGHLY SELECTIVE
AND SENSITIVE DETECTION OF CEPHALEXIN**

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



SUBMITTED BY

ANJANA A NAIR
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UNDER THE GUIDANCE OF

Dr Beena Mathew



School of Chemical Sciences
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PHOTODEGRADATION OF ORGANIC POLLUTANTS USING MODIFIED ZnO AS A PHOTOCATALYST

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



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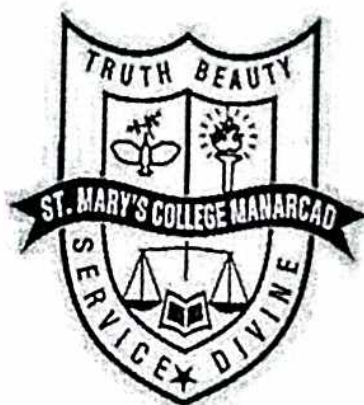
Kottayam, Kerala

686560

STUDY ON THE EFFECT OF TAMARIND SHELL POWDER ON THE PHYSICAL, MECHANICAL AND CHEMICAL PROPERTIES OF PBR MODIFIED NATURAL RUBBER VULCANIZATE

*Dissertation submitted to Mahatma Gandhi University in partial fulfillment for the
award of the degree of*
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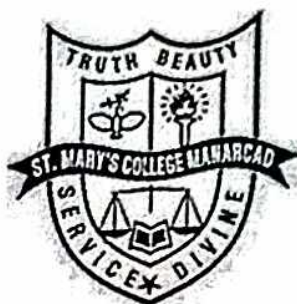
CHANGANACHERRY

COBALT FORMATE COORDINATION POLYMERS: SOLVOTHERMAL SYNTHESIS, CRYSTAL STRUCTURE AND THERMOCHROMISM

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

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Under the supervision of

Prof. (Dr.) SURESH MATHEW



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CRYSTAL STRUCTURE AND SOLVATOCHROMISM IN SELF-ASSEMBLED DISCRETE COBALT BASED COORDINATION COMPLEX

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

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SYNTHESIS AND CHARACTERISATION OF CARBON DOTS AND METAL ION SENSING STUDY

A project report submitted to Mahatma Gandhi University Kottayam in partial fulfilment for
the award of degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted by

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Under the guidance of
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**SCHOOL OF CHEMICAL SCIENCE
MAHATMA GANDHI UNIVERSITY
KOTTAYAM
JULY 2024**

**SYNTHESIS OF NR-NBR COMPOSITE WITH COIR AS
FILLER AND STUDY OF ITS CHEMICAL, PHYSICAL AND
MECHANICAL PROPERTIES**

*Dissertation submitted to Mahatma Gandhi University in partial fulfillment for
the award of the degree of*

MASTER OF SCIENCE IN CHEMISTRY

ATHIRA BIJU

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Ami Susan Prasad

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CHANGANACHERRY

**SYNTHESIS AND CHARACTERIZATION OF MOLYBDENUM
DISULFIDE (MOS₂) QUANTUM DOTS**

Project report submitted to Mahatma Gandhi University, Kottayam in
partial fulfillment of requirements for the award of degree of

MASTER OF SCIENCE

In

CHEMISTRY

SUBMITTED BY

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(2022-2024)



**DEPARTMENT OF CHEMISTRY
ST. MARY'S COLLEGE, MANARCAUD**

Under the guidance of

Prof. (Dr.) SURESH MATHEW



**School of Chemical Sciences
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May 2024**

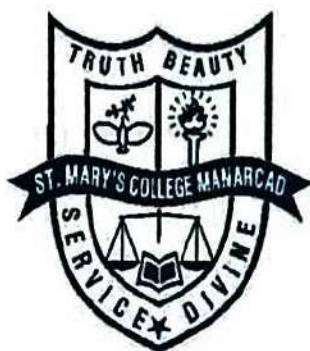
Valued
Dr. Suresh Mathew
Arumalakkudy
Radwan

Amu
Amu Susana Prasad

**ANALYSIS AND STUDY ON THE IMPACT OF
MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES OF
NATURAL RUBBER VULCANIZATE WITH ACTIVATED
CHARCOAL AS FILLER**

Dissertation submitted to Mahatma Gandhi University in partial fulfillment for the
award of the degree of
MASTER OF SCIENCE IN CHEMISTRY

**KAVITHA K S
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CHANGANACHERRY**

Unveiling the Dark Triad: A Study of Intricacies in *Mukundan Unni*
Associates

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala
in partial fulfillment of the requirements for the award of the
Degree of Bachelor of Arts in English (Model II Voc. Copy Editor)

Submitted by,

Abyjith Biju

(Reg. No. 210021005748)

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Unveiling the Machiavellian Mindset: A Psychoanalytic Exploration of

The 48 Laws of Power

A Dissertation Submitted to Mahatma Gandhi University, Kottayam, Kerala

In partial fulfilment of the requirements for the award of the
Degree of Bachelor of Arts in English (Model II Voc. Copy Editor)

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Racism in the Novel

Americanah

A dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala, in
Partial fulfillment of the requirements for the award of the Degree of
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A Study on Feminism in "Sita's Sister"

Written by Kavita Kane

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Dissertation Submitted to Mahatma Gandhi University, Kottayam, Kerala
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Contemporary Indian Politics and Conflicts of Indian History in

K.R Meera's novel *Aarachar*

A Dissertation Submitted to Mahatma Gandhi, Kottayam,
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Role of Women Characters in R. K. Narayan's Novel

The Painter of Signs and The Dark Room

A dissertation submitted to Mahatma Gandhi University, Kottayam Kerala in

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A Comparative Study of Women Identity in the Films *Mitr - My Friend* and *How Old Are You*

A Dissertation Submitted to Mahatma Gandhi University, Kottayam

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Amray

Vent of the Voiceless: Feminist Reading of Shashi Deshpande's *That
Long Silence*

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala
in partial fulfillment of the requirements for the award of the Degree of
Bachelor of Arts in English (Model II Voc. Copy Editor)

Submitted by

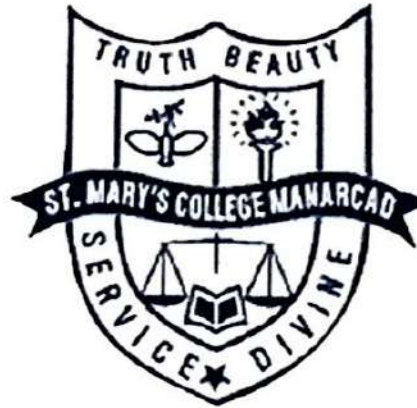
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Breaking Barriers: Feminism in Anita Desai's *Cry the Peacock*

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

in partial fulfillment of the requirements for the award of the

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Submitted by

Jayalakshmi V S

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The Indian Girl : A Woman's Journey Towards True Self-Independence

A dissertation Submitted to Mahatma Gandhi University, Kottayam, Kerala,

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(Reg. No. 210021005755)

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Assistant Professor



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Post Graduate Department of English

St. Mary's College Manarcaud

April, 2024

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Anupa

Teashop on Cultural Hubs Thematical reading of

Vellimoonga and Drishyam

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

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

Bachelor of Arts in English (Model II Voc. Copy Editor)

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St. Mary's College, Manarcaud

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*Valued by
A nraj*

Contesting Gender Issues and Patriarchal Values in Relationships: Jeo Baby's

The Great Indian Kitchen

A Dissertation Submitted to Mahatma Gandhi, Kottayam,
Kerala, in partial fulfillment of the requirements for the award of the
Degree of Bachelor of Arts in English (Model II Voc. Copy Editor)

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Kevin K Cherian

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April, 2024

Midhun Manuel Thomas's *Anjaam Pathira: A Reality*

Check of Trauma and its Impact

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

in partial fulfillment of the requirements for the award of the

Degree of Bachelor of Arts in English (Model II Voc. Copy Editor)

Submitted by,

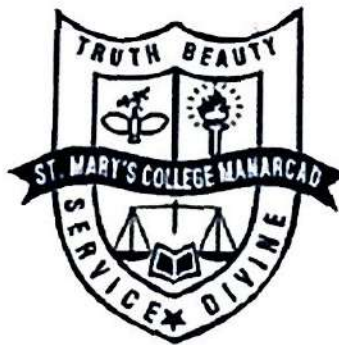
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(De)Constructing Madness: Examining the Insanity in *The Yellow Wallpaper* and *The Bell Jar*

A Dissertation Submitted to Mahatma Gandhi University, Kottayam,
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of Bachelor of Arts in English Model II Voc. Copy Editor

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April 2024

Laughing Through The Pain of Trauma: A Holocaust Narrative of Film *Life is*

***Beautiful* by Roberto Benigni**

Dissertation submitted to

Mahatma Gandhi University in partial fulfillment

of the requirements for the award of the

Degree of Bachelor of Arts

in

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Elements of Magical Realism in *Harry Potter and Philosopher 's Stone*

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Post Graduate Department of English

St. Mary's College, Manarcaud

April, 2024

Bad Feminists in Fleabag

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

Degree of Bachelor of Arts in English (Model II Voc. Copy
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St Mary's College, Manarcaud

April 2024

Exploring Gender Dynamics in Kate Chopin's *The Awakening* and Madhu
C. Narayanan's *Kumbalangi Nights*

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala
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Degree of Bachelor of Arts in English (Model II Voc. Copy Editor)

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St Mary's College, Manarcaud

April 2024

Eco Feministic Analysis of Sara Joseph's Novel "*The Vigil*"

A dissertation Submitted to Mahatma Gandhi, Kottayam
Kerala, in partial fulfillment of the requirements for the award of the
Degree of Bachelor of Arts in English (Model II Voc. Copy Editor)

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ESTD 1981

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March, 2024

The Oppression of the Oppressed in the Black Community in Alice Walker's
The Third Life of Grange Copeland

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

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April 2024

Exploring Indian Feminism Through: Shashi Deshpande's

The Dark Holds No Terror and Real-Life Incidents

Dissertation submitted to Mahatma Gandhi University, Kottayam Kerala in partial fulfilment
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April 2024

Breaking Boundaries: Deconstructing Gender Norms In

Niki Caros's *Mulan*

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

in partial fulfillment of the requirements for the award of the

Degree of Bachelor of Arts in English (Model B Voc. Copy Editor)

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March 2024

Unveiling the Dark Triad: A Study of Intricacies in *Mukundan Unni*
Associates

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala
in partial fulfillment of the requirements for the award of the
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Unveiling the Machiavellian Mindset: A Psychoanalytic Exploration of

The 48 Laws of Power

A Dissertation Submitted to Mahatma Gandhi University, Kottayam, Kerala

In partial fulfilment of the requirements for the award of the
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April 2024

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Racism in the Novel

Americanah

A dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala, in
Partial fulfillment of the requirements for the award of the Degree of
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A Study on Feminism in "Sita's Sister"

Written by Kavita Kane

4 / 22

Dissertation Submitted to Mahatma Gandhi University, Kottayam, Kerala
in partial fulfillment of the requirements for the award of the Degree of
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Contemporary Indian Politics and Conflicts of Indian History in

K.R Meera's novel *Aarachar*

A Dissertation Submitted to Mahatma Gandhi, Kottayam,
Kerala, in partial fulfillment of the requirements for the award of the Degree of Bachelor of
Arts in English (Model II Voc. Copy Editor)

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Role of Women Characters in R. K. Narayan's Novel

The Painter of Signs and The Dark Room

A dissertation submitted to Mahatma Gandhi University, Kottayam Kerala in

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A Comparative Study of Women Identity in the Films *Mitr - My Friend and How Old Are You*

A Dissertation Submitted to Mahatma Gandhi University, Kottayam

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Vent of the Voiceless: Feminist Reading of Shashi Deshpande's *That
Long Silence*

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala
in partial fulfillment of the requirements for the award of the Degree of
Bachelor of Arts in English (Model II Voc. Copy Editor)

Submitted by

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Breaking Barriers: Feminism in Anita Desai's *Cry the Peacock*

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

in partial fulfillment of the requirements for the award of the

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The Indian Girl : A Woman's Journey Towards True Self-Independence

A dissertation Submitted to Mahatma Gandhi University, Kottayam, Kerala,

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Teashop on Cultural Hubs Thematical reading of

Vellimoonga and Drishyam

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

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*Valued by
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Contesting Gender Issues and Patriarchal Values in Relationships: Jeo Baby's

The Great Indian Kitchen

A Dissertation Submitted to Mahatma Gandhi, Kottayam,
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April, 2024

Midhun Manuel Thomas's *Anjaam Pathira: A Reality*

Check of Trauma and its Impact

A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

in partial fulfillment of the requirements for the award of the

Degree of Bachelor of Arts in English (Model II Voc. Copy Editor)

Submitted by,

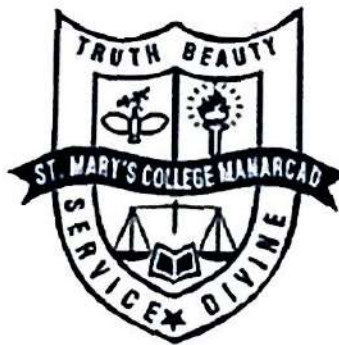
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(De)Constructing Madness: Examining the Insanity in *The Yellow Wallpaper* and *The Bell Jar*

A Dissertation Submitted to Mahatma Gandhi University, Kottayam,
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April 2024

Laughing Through The Pain of Trauma: A Holocaust Narrative of Film *Life is*

***Beautiful* by Roberto Benigni**

Dissertation submitted to

Mahatma Gandhi University in partial fulfillment

of the requirements for the award of the

Degree of Bachelor of Arts

in

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Elements of Magical Realism in *Harry Potter and Philosopher 's Stone*

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April, 2024

Bad Feminists in Fleabag

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April 2024

Exploring Gender Dynamics in Kate Chopin's *The Awakening* and Madhu
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A dissertation Submitted to Mahatma Gandhi, Kottayam
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March, 2024

The Oppression of the Oppressed in the Black Community in Alice Walker's
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April 2024

Exploring Indian Feminism Through: Shashi Deshpande's

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April 2024

Breaking Boundaries: Deconstructing Gender Norms In

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A Dissertation submitted to Mahatma Gandhi University, Kottayam, Kerala

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Degree of Bachelor of Arts in English (Model B Voc. Copy Editor)

Submitted by

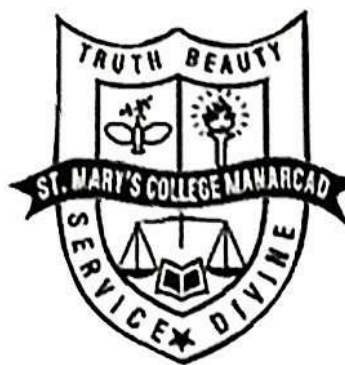
Varghese Kuriakose

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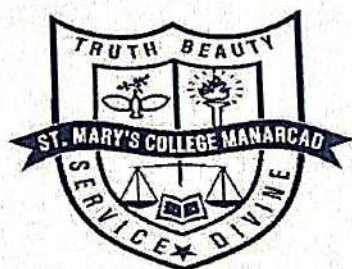
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Post graduate Department of English

St. Mary's College, Manarcaud

March 2024

A STUDY ON THE EARLY AND LATE FISHING GEARS IN THANNEERMUKKOM



Project report submitted to the Mahatma Gandhi University for partial fulfilment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

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(Affiliated to Mahatma Gandhi University)

KOTTAYAM

2021-2024

3
7/5/2024.

**A STUDY ON IDENTIFICATION OF PEST ON
VEGETABLE PLANTS AND NATURAL
REPELLENTS**



*Project report submitted to the Mahatma Gandhi University for partial fulfilment of
the requirements for the award of Bachelor of Degree in Zoology under the faculty
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KOTTAYAM

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7/5/2024

EFFECT OF VERMICOMPOST IN THE GROWTH OF PLANTS



Project report submitted to the Mahatma Gandhi University for partial fulfilment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

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KOTTAYAM

2021-2024

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7/5/2024

QUALITATIVE ANALYSIS OF DIFFERENT PACKED MILK



*Project report submitted to the Mahatma Gandhi University for partial fulfilment
of the requirements for the award of Bachelor of Degree in Zoology under the
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KOTTAYAM

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7/5/2024

**A Preliminary Study on the Butterfly
Diversity in Kaniyanmala, Panachikkadu
Panchayat, Kottayam District**



Project report submitted to the Mahatma Gandhi University for partial fulfilment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

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**DEPARTMENT OF ZOOLOGY
ST. MARY'S COLLEGE MANARCAUD
(Affiliated to Mahatma Gandhi University)**

**KOTTAYAM
2021-2024**

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4/5/24

A Comparative Study on Avifauna of Puthuppally Wetlands, Kottayam District



**Project report submitted to the Mahatma Gandhi University for partial
fulfilment of the requirements for the award of Bachelor of Degree in Zoology
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ST.MARY'S COLLEGE MANARCAUD

(Affiliated to Mahatma Gandhi University)

KOTTAYAM

2021-2024

STUDY ON WATER QUALITY OF THREE DIFFERENT WATER SAMPLES



Project report submitted to the Mahatma Gandhi University for partial fulfilment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

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(Affiliated to Mahatma Gandhi University)

KOTTAYAM

2021-2024

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**A checklist of Aerial invertebrates in selected sites of
Areeparambu , Kottayam district**



Project report submitted to the Mahatma Gandhi University for partial fulfilment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

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KOTTAYAM

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30/11/2024

A preliminary study on Adulteration in food items



Project report submitted to the Mahatma Gandhi University for partial fulfilment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

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DEPARTMENT OF ZOOLOGY

ST.MARY'S COLLEGE MANARCAUD

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KOTTAYAM

2021-2024

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**A Preliminary study on the Moth Diversity in
Nattakom, Kottayam Municipality, Kottayam
District**



*Project report submitted to the Mahatma Gandhi University for partial fulfilment of
the requirements for the award of Bachelor of Degree in Zoology under the faculty
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Submitted By

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ST.MARY'S COLLEGE MANARCAUD

(Affiliated to Mahatma Gandhi University)

KOTTAYAM

2021-2024

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3. [Signature]
11/5/2024.

**A Preliminary Study on the Spider Diversity in
Thiruvanchoor, Ayarkunnam Panchayat,
Kottayam District**



*Project report submitted to the Mahatma Gandhi University for partial
fulfilment of the requirements for the award of Bachelor of Degree in
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KOTTAYAM

2021-2024

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1/5/2024

A Comparative Analysis on physico-chemical parameters of soil from Agricultural field and Barren Field



Project report submitted to the Mahatma Gandhi University for partial fulfilment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

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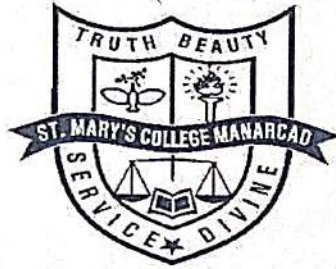
KOTTAYAM

2021-2024

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[Signature]
7/5/2024

**A Preliminary Study on the Grasshopper
Diversity in Villoonni, Arpookara Panchayat,
Kottayam District**



- 1. Project report submitted to the Mahatma Gandhi University for partial
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Submitted By

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ST. MARY'S COLLEGE MANARCAUD**

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KOTTAYAM

2021-2024

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3

A Preliminary Study on The Fecundity Of *Poecillia reticulata* with Reference to their Diet



*Project report submitted to the Mahatma Gandhi University for partial fulfilment of
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COLLEGE MANARCAUD

(Affiliated to Mahatma Gandhi University)

KOTTAYAM

2021-2024

Valued

30/5/2024

7/5/2024

Study On Quality Of Milk



Project report submitted to the Mahatma Gandhi University for partial fulfilment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

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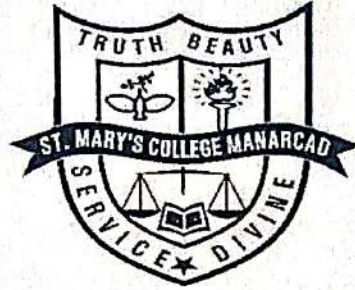
(Affiliated to Mahatma Gandhi University)

KOTTAYAM

2021-2024

Valued
[Signature]
7/8/2024

COMPARATIVE ANALYSIS OF PROTEIN CONTENT AND BACTERIAL COUNT IN CURDS FROM COW MILK AND PEANUT MILK



Project report submitted to the Mahatma Gandhi University for partial fulfilment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

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(Affiliated to Mahatma Gandhi University)

KOTTAYAM

2021-2024

Valued
3
7/5/2024

**CONSUMER BEHAVIOR
TOWARDS INTERNET BANKING WITH
SPECIAL REFERENCE TO MANARCAUD PANCHAYAT**

*Project Report submitted to Mahatma Gandhi University in partial fulfillment of the requirement
for the award of the Degree of Bachelor of Commerce.*

Submitted by:

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**POST GRADUATE DEPARTMENT OF
COMMERCE ST. MARY'S COLLEGE,
MANARCAUD**

2021-2024

**A STUDY ON CUSTOMER PREFERENCE TOWARDS OTT
PLATFORM-A SPECIAL REFERENCE TO MANARCADU
PANCHAYATH**

*Project Report submitted to Mahatma Gandhi University in partial fulfilment of the
requirement for the award of the Degree of Bachelor of Commerce.*

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A COMPARITIVE STUDY ON ONLINE SHOPPING AND OFFLINE SHOPPING

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History Of Kottayam: Special Reference To Art And
Architectural Of Thazhathangadi Juma Masjid

Project submitted to the Mahatma Gandhi University for the Award

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RULER AND CAPITAL
A CASE STUDY OF FAROOQABAD DURING THE TIME OF
TIPU SULTAN

Project submitted to Mahatma Gandhi University, Kottayam for the
Award of Bachelor Degree of Arts of History

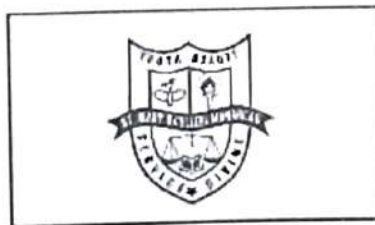


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THE GREAT INDIAN KITCHEN;
WOMEN'S LIVES AD REALITIES

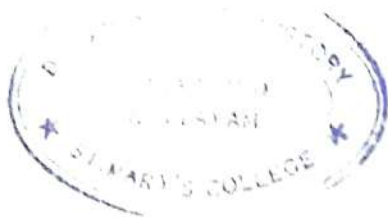


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EXPLORING LOCAL HISTORY OF PARAPRAM, PINARAYI

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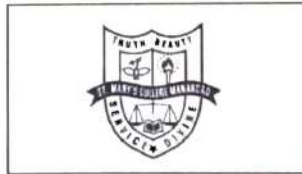


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MAHATMA GANDHI UNIVERSITY, KOTTAYAM

HISTORICITY OF 2018 MALAYALAM MOVIE A SHORT STUDY



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THE GREAT INDIAN KITCHEN;
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History Of Kottayam: Special Reference To Art And
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Project submitted to the Mahatma Gandhi University for the Award

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**SOLVOTHERMAL SYNTHESIS AND THERMAL ANALYSIS OF COBALT – FORMATE
METAL ORGANIC FRAMEWORKS**

**Project report submitted to Mahatma Gandhi University, Kottayam in partial fulfillment
of requirements for the Bachelor Degree of Science in Chemistry**



**SUBMITTED BY
ARAVIND O R**

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(2021-2024)**



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MAHATMA GANDHI UNIVERSITY, KOTTAYAM

DEPARTMENT OF CHEMISTRY

St. MARY'S COLLEGE, MANARCAUD

CERTIFICATE

This is to certify that the project report entitled SOLVOTHERMAL SYNTHESIS AND THERMAL ANALYSIS OF COBALT – FORMATE METAL ORGANIC FRAMEWORKS is an authentic record of the work carried out by under my guidance in the Department of Chemistry, St. Mary's College, Manarcaud during her B.Sc. course in partial fulfillment of the requirements for the B.Sc. degree in the faculty of Science of Mahatma Gandhi University, Kottayam.



Countersigned by,

Dr. Sholly Clair George

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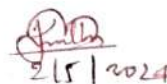
Department of Chemistry



Place: Manarcaud

Date:

Valued,
Dr. Jim Mc Thomas



21/5/2024

DECLARATION

I, Aravind O R and 210021024776, the student of chemistry hereby declare that this dissertation entitled SOLVOTHERMAL SYNTHESIS AND THERMAL ANALYSIS OF COBALT – FORMATE METAL ORGANIC FRAMEWORKS to the Mahatma Gandhi University, Kottayam partial fulfillment of the requirement for award of Degree of Bachelor of Science in Chemistry, has been prepared under the supervision and guidance of Mr. Tony Francis, Department of Chemistry, St. Mary's College, Manarcaud.

I also declare that this is a bonafide record of research work done by me during the course of my study and part of this study has not been presented before for any degree, diploma or to other similar title or recognition before.

Place: Manarcaud

ACKNOWLEDGEMENT

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ABSTRACT

Metal-organic frameworks are a class of porous polymeric material, consisting of metal ions linked together by organic bridging ligands. They are recently emerging on the interface between molecular coordination chemistry and material science. The very high sorption behaviors, and excellent reversibility kinetics is a result of their many favourable attributes, such as reproducible and facile syntheses, high porosity, chemical modification and amenability to scale-up. However, these materials can be employed in different applications depending on the appropriate choice of metal ions and the organic compound, and also can function best at very low temperature, the use of MOFs in different fields such as the removal of absorption and separation of toxic substances from gas and liquid, catalysts, a variety of sensors, storage of clean energies and environmental applications, medical and biological applications, and optoelectronic equipment is included.. In addition to resilient bonds between inorganic and organic units, reticular synthesis creates MOFs, accurate selection of constituents of which can produce high thermal and chemical stability and crystals of ultrahigh porosity. Other solids have not shown the same accuracy normally used in chemical modification and even the capability of increasing their metrics with no modification of the underlying topology. Common characterization techniques used for MOFs are Fourier transformation infrared spectroscopy, powder X-ray diffraction technique, Thermogravimetric analysis and scanning electron microscopy.

OBJECTIVES

- To study about metal organic frameworks
- To synthesis metal organic frameworks
- To study Powder XRD
- To study about Highscore plus and match the pxrd peaks
- To study the color of the metal organic framework

CHAPTER -1

INTRODUCTION

The synthesis of metal-organic frameworks (MOFs) has attracted immense attention during the last 2 decades due to the possibility to obtain a large variety of aesthetically interesting structures that could also be of great interest for applications in a number of fields related to porous materials. This includes the more traditional areas of storage, separation, and catalysis, which are based on the pore size and shape as well as the host-guests interactions involved. In addition, biomedical applications or the use as sensor materials are currently intensively investigated. Extensive reviews have been published that also partially cover the synthesis of MOFs.

The still relatively young field of MOF synthesis has been recognized to have evolved from the fields of coordination and solid-state/zeolite chemistry. Coordination chemistry has a long history of investigating compounds that were labeled as coordination polymers since they were formed by connection of metal ions as connectors and organic ligands as linkers. This area was first reviewed in 1964. The interest in porous coordination polymers surfaced much later, although some complexes such as Prussian blue compounds and Hoffman clathrates had been known to show reversible sorption properties. Thus, the interest in porous coordination polymers and MOFs started only around 1990. Until mid 1990's, porous materials were broadly classified into two types, namely organic and inorganic. As far as organic porous materials like activated charcoal is concerned, they have high porosity and surface area, but it does not possess an ordered structure. While inorganic porous frameworks like zeolites possess an ordered structure but have low capacity for storage of gases and difficult regeneration process. Zeolites also have remarkably less tunability due to rigidity of bonds. Hence its properties cannot be altered. At that point of time, coordination chemists gave special attention on creating certain interesting frameworks by taking advantage of properties of both organic and inorganic porous materials. As a result, they developed new hybrid crystalline porous materials called metal organic frameworks (MOF'S) which is the youngest member of this porous materials family. MOF'S are organic – inorganic hybrid crystalline porous materials that consist of a regular array of positively charged metal ions surrounded by organic "linker" molecules. The metal ions form nodes that bind the arms of the linkers together to form a repeating cage like structures. More



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