



ALPHONSA COLLEGE PALA

KOTTAYAM-686574, KERALA, INDIA

Affiliated to the Mahatma Gandhi University

CERTIFICATE

This is to certify that the project work entitled "**COMPARITIVE STUDY OF EFFECT OF AN INSECTICIDE, PLANT GROWTH REGULATOR, FUNGICIDE, HERBICIDE AND DETERGENT ON THE PROMETAMORPHIC TADPOLES AND THE MORTALITY RATE**" submitted by **Ms. ASHNA MOHAN**, to the **MAHATMA GANDHI UNIVERSITY, KOTTAYAM** towards partial fulfilment for the degree of **MASTER OF SCIENCE IN ZOOLOGY**, is a bonafide record of work carried out by her, under my supervision and guidance.

Place: Pala

Date: 06-09-2021

Mrs. POORNIMA BABBY

Supervising Teacher

Department of Zoology

Alphonsa College, Pala

Countersigned by

Dr. Sr. Manju Elizabeth Kuruvila

Head of the Department

Department of Zoology

Alphonsa College, Pala



DEPARTMENT OF ZOOLOGY

ALPHONSA COLLEGE PALA, DEVAGIRI,
KOTTAYAM - 686 574, KERALA, INDIA

(Affiliated to Mahatma Gandhi University)

CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON THE FISH DIVERSITY OF VALAPATANAM RIVER AND COMPARATIVE MOLECULAR ANALYSIS OF DWAKINSIA FILAMENTOSA USING CO1 AND 16SrRNA SEQUENCES " is a bonafide work carried out by Ms. SHEETHAL TOM, under the guidance of Dr. AMBILI T.R. in the Department of Zoology, Alphonso College, Pala as a partial fulfillment for the requirements of MSc Degree under the Faculty of Science of Mahatma Gandhi University.

Place: Pala

Date: 06-09-2021

Signature of the Guide

DR. AMBILI T.R.

Signature of the Examiners

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2.

Signature of the HOD

Dr. Sr. Manju Elizabeth Kuruvila

HOD., Department of Zoology.

Alphonso College, Kottayam




DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE, PALA
KOTTAYAM - 686 574, KERALA, INDIA
(Affiliated to Mahatma Gandhi University)

CERTIFICATE

This is to certify that the dissertation entitled “**Influence of season on diversity and abundance of ants (Family:Formicidae) in Manvettom area of Kottayam District, Kerala**” is a bonafide work carried out by Ms. ANJU MARIA JAMES, under the guidance of Ms.CINNIE SUSAN ANTONY in the Department of Zoology Alphonsa College, Pala as a partial fulfillment for the requirements of MSc Degree under the Faculty of Science of Mahatma Gandhi University.

Place: Pala

Date:


Signature of the Guide

Ms. CINNIE SUSAN ANTONY

Signature of the Examiners

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2. 


Signature of the HOD

Dr. Sr. Manju Elizabeth Kuruvila

HOD., Department of Zoology,

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ALPHONSA COLLEGE PALA
KOTTAYAM - 686574, KERALA, INDIA
Affiliated to the Mahatma Gandhi University

CERTIFICATE

This is to certify that the dissertation entitled "Odonata Diversity along Muvattupuzha river Basin: Response during COVID-19 pandemic" is a bonafide work carried out by Miss. Anu Maria Cyriac, under my guidance, in the Department of Zoology, Alphonso college, Pala, during the course as partial fulfillment of the requirements for the award of Master of Science in Zoology of M.G. University during the period 2019-2021.

Maya George
Dr. Maya George.

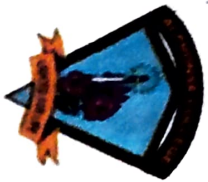
Supervising Teacher
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Place: Pala
Date: 06/09/2021

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M Manju

Dr. Sr. Manju Elizabeth Kiruvvila
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KOTTAYAM - 686 574, KERALA, INDIA

(Affiliated to Mahatma Gandhi University)

CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON THE EFFICIENCY OF ORGANIC MOSQUITO REPELLENT DEVELOPED USING COW DUNG AS BASE " is a bonafide work carried out by Ms. DIVYA GOPAN, under the guidance of Miss. TEENA JAMES in the Department of Zoology, Alphonsa College, Pala as a partial fulfillment for the requirements of MSc Degree under the Faculty of Science of Mahatma Gandhi University.

Place: Pala

Date:

Signature of the Guide

Miss. TEENA JAMES

Signature of the Examiners

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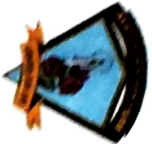
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CERTIFICATE

This is to certify that the dissertation entitled "Effect of diverse detergents on mortality & reproductive capacity of the earthworm *Megascolex kottayamensis*" is a bonafide work carried out by **JULIET VARGHESE**, under the guidance of Ms. **TEENA JAMES** in the Department of Zoology, Alphonso College, Palai as a partial fulfillment for the requirements of M.Sc. Degree under the Faculty of Science of Mahatma Gandhi University.

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CERTIFICATE

This is to certify that the project work entitled "BIODEGRADABLE PROPERTIES OF JACKFRUIT (*Artocarpus heterophyllus*) SEED STARCH, VINEGAR AND GLYCEROL BASED BIOPLASTIC" submitted by Ms. Maria Sunny, to the MAHATMA GANDHI UNIVERSITY, KOTTAYAM towards partial fulfillment for the degree of MASTER OF SCIENCE IN ZOOLOGY, is a bonafide record of work carried out by her, under my supervision and guidance.

Place: Pala

Dr. Sr. Manju Elizabeth Kuruvila

Date: 06-09-2021

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Dr. Sr. Manju Elizabeth Kuruvila

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