



CRITERION I - CURRICULAR ASPECTS

1.3 Curriculum Enrichment

1.3.3 Research Projects/ Internships/Field Projects

Research Projects

**Department of Zoology
2018-2023**

**1. Details of Research Projects
2. Certificates**

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RESEARCH PROJECT DETAILS
DEPARTMENT OF ZOOLOGY- 2018-2019

SL.No	ROLL NUMBER	NAME	DETAILS OF ACTIVITY
1	P17ZO001	A. ABINAYASUNDARI	ISOLATION, PURIFICATION AND CHARACTERIZATION OF CHITIN FROM MARINE LONG - EYED SWIMMING CRABPODOPHTHALMUS UIGIL, FABRICIUS 1798.
2	P17ZO002	M. AKILA	EFFECT OF COFFEE AND TEA GROUND WASTE ON EARTHWORM BIOMASS, PHYSICO- CHEMICAL PROPERTIES OF VERMICOMPOST AND PLANT GROWTH
3	P17ZO003	D. AKILANDESHWARI	LOW COST AND ECOFRIENDLY EVOLUTION OF SMILAX ZEYLANICA L. (FAMILY: SMILACACEAE) EXTRACT AGAINST THE DENQUE VECTOR AEDES AEGYPTI L. (DIPTERA, CULICIDAE)
4	P17ZO004	J. CHANDRALEKA	STUDIES ON THE SILVER POMFRET, POMPUS ARGENTEUS (EUPHRASEN 1788), NAGAPATTINAM, SOUTH EAST COAST OF INDIA.
5	P17ZO005	R. DEVIKA	EFFECT OF MERCURIC CHLORIDE AND THE INFLUENCE BIOENZYMOLOGICAL STUDIES ON FISH LABIO ROHITA (HAM.)
6	P17ZO007	M. MANJULA	EVOLUTION OF ANTIMICROBIAL ACTIVITY OF COW URINE WITH NEEM (AZADIRACHTA INDICA) EXTRACT ON PATHOGENIC FISH MICROBIAL STRAINS
7	P17ZO008	S. MYTHILI	STUDIES ON THE ROHU FISH, LABEO ROHITA (HAMILTON, 1822) FROM FISH FORM, SWAMIMALAI, THANJAVUR DISTRICT.
8	P17ZO009	M. PRIYA	EFFECT OF DURATION OF EXPOSURE FOR GIRCUD TREATMENT ON THE COPEPOD POPULATION DENSITY
9	P17ZO010	K. SATHYABAMA	STUDIES ON SPECIES DISTRIBUTION AND DIVERSITY OF EARTHWOARM IN MATHAMPETTAI PALUR VILLAGE, ARIYALUR DISTRICT, TAMIL NADU
10	P17ZO011	G. SHAMINI	COMPARATIVE STUDIES OF ANTIBACTERIAL ACTIVITY OF ARGANIC TURMERIC AND AACHI TURMERIC AGAINST SELECTED FISH PATHOGENS
11	P17ZO012	S. SITA	ANTIBACTERIAL ACTIVITY OF SELECTED HERBAL AZADIRATA INDICA AND MELIA AZEDARACH AGAINST FISH PATHOGEN
12	P17ZO013	S. SOWNDARYA	IMPACT OF KUMBAKONAM AYE KULAM LAKE WATER ON BIOCHEMICAL CHANGES OF FRESH WATER FISH LABEO ROHITA
13	P17ZO014	V. SUBHASRI	EFFECT OF DIFFERENT CONCENTRATION OF GIR CUD ON ENHANCING THE COPEPOD POPULATION DENSITY

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14	P17ZO015	S. SUGANYA	STUDIES ON LENGTH WEIGHT RELATIONSHIP OF GROW OUT AND COOSE SHELL AFFECTED CITOPENAEUS VANNAMEI LOW SALINITY WATER FROM TAMIL NADU, INDIA.
15	P17ZO016	P. VIJAYALAKSHMI	STUDIES IN BIOCHEMICAL COMPOSITIONS OF EARTHWORM LAMPITO MARUITII IN KUMBAKONAM REGION TAMIL NADU.
16	P17ZO017	P. VIJAYALAKSHMI	GROWTH PROMOTING EFFECT OF COW URINE WITH OCCIMUM SANCTUM OF DIFFERENT BREADS OF LABEO ROHITA
17	P17ZO018	B. VIJITHA	CULTURE OF EPIGENIC EARTHWORM EISENIA FETIDA UNDER GREENGRAM WASTES AND EFFECTS OF GREENGRAM VERMICOMPOST ON THE GROWTH AND YIELD OF OKRA PLANT (ABELMOSCHUS ESCULENTUS)



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RESEARCH PROJECT DETAILS
DEPARTMENT OF ZOOLOGY- 2019-2020

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1	P18ZO001	B. AARTHI	HEMATOLOGICAL STUDIES OF FRESHWATER FISH LABEO ROHITA (HAMILTON) EXPOSED TO DIFFERENT MEDIAN LETHAL CONCENTRATION OF MERCURIC CHLORIDE
2	P18ZO002	P. AKILA	STUDIES ON MACROBENTHIC FORM DISTRIBUTION IN VAILANKANNI COASTAL WATER, SOUTHEAST COASTAL OF INDIA
3	P18ZO003	K. ELAKKIYA	BIOGENIC FABRICATION AND CHARACTERIZATION OF SILVER NANOPARTICLES USING OXALIS DEBILIS (OXALIDACEAE) AGAINST MOSQUITO VECTORS
4	P18ZO004	B. JAYAPRIYA	STUDIES ON THE BIODIVERSITY OF FRESH WATER FISHES FROM LOWER ANAIKARAI DAM, TAMIL NADI, INDIA
5	P18ZO005	M. KAVIYA	INVITRO EVOLUTION OF ANTIOXIDENT PROPERTIES OF COLLAGEN FROM MARINE FISH, RED BANDED SANPPER (LUTJANUS ARGENTIMACULATUS)
6	P18ZO006	B. MEENA	EFFECT OF COW URINE AND ITS COMPINATION WITH NEEM EXTRACT ON ANTIBACTERIAL ACTIVITIES AGAINST FISH PATHOGENS
7	P18ZO007	G. NILA	HEALTHY STATUS OF NARIKURAVAS COMMUNITY (WOMEN & GIRL CHILD) IN EZHUMAANTHIDAL VILLAGE IN TAMIL NADU
8	P18ZO008	S. NISHA	STUDIES ON THE FLYING FISH EXOCOETUS VOLITANS LINNAEUS NAGAPATTINUM SOUTHEAST COAST OF INDIA
9	P18ZO009	R. PRAVEENA	OPTIMIZATION OF HEMOCYTES LYSATE SEPARATION FRESH WATER COPEPODES
10	P18ZO010	N. PRIYA	STUDIES ON THE ENVIRONMENTAL INFLUENCE WITH FORAMINIFERAN SPECIES DISTRIBUTION IN KODIYAKARAI COASTAL WATER, SOUTHEAST COAST OF INDIA
11	P18ZO011	S. PRIYANKA	COMPARATIVE STUDY ON AVIFAUNAL DIVERSITY AND AROUND KUMBAKONAM, THANJAVUR DISTRICT, TAMIL NADU, INDIA
12	P18ZO012	M. RENUGA	TOXICITY EFFECT OF NOMINEE GOLD ON BIOMASS AND REPRODUCTIVITY ABILITY OF INDIAN EARTH WARM, LAMTITO MAURITII (KINBERG) (ANNELIDA: OLIGOTHAETA)
13	P18ZO013	S. RENUKA DEVI	MOSQUITO LARVICIDAL POTENTIAL OF OXALIS CORNICULATA L. EXTRACT AGAINST THE DENQUE VECTOR AEDES AGYPTI L. (DIPTERA : CULICIDAE)
14	P18ZO014	S. ROOPANANDHINI	CALL BACK SPARROW FOR CONSERVATION IN AND AROUND KUMBAKONAM, THANJAVUR DISTRICT, TAMIL NADU, INDIA

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15	P18ZO015	A SARANYA	MONOCROTOPHOS INDUCED BIOCHEMICAL ALTERATION IN THE INDIAN MAJOR CRAP LABEO ROHITA
16	P18ZO016	J. SUGANYA	ISOLATION AND PARTIAL CHARACTERIZATION OF COLLAGEN FROM FRESH WATER FISH SCALES, LABEO ROHITA.
17	P18ZO017	S. VIJAYALAKSHMI	EFFECT OF VERMICOMPOST ON THE GROWTH AND YELID OF BRINJAL PLANT



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RESEARCH PROJECT DETAILS
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SL.No	ROLL NUMBER	NAME	DETAILS OF ACTIVITY
1	P19ZO001	E. ARULNISHA	ACUTE TOXICITY AND BACTERIAL POPULATION STUDY OF PRETILACHLOR ON INDIAN EARTHWORM, LAMPITO MAURITII (KINBERG) (ANNELIDA: OLIGOCHETA)
2	P19ZO002	R. ATCHAYA	STUDIES ON PROXIMATE COMPOSITION OF MUSCLE, INTESTINE, AND HEPATOPANCREAS IN SHRIMP, PENAEUS MONODON (FABRICIUS, 1798)
3	P19ZO003	A. BASIL FRANKO	VERMICOMPOST OF TEAK LEAVES USING AN INDIAN EARTHWORM LAMPITO MAURITII (KINBERG) (ANNELIDA: OLIGOCHETA)
4	P19ZO004	S. BHUVANESWARI	PRVALENCE OF TYPE 2 DIABETES MELLITUS IN THE OUTSKIRTS OF KUMBAKONAM, TAMIL NADU
5	P19ZO005	R. DAYANA	STUDY ON BIODIVERSITY OF FUNNA OBSERVED FROM COLLEGE CAMPUS OF GOVERNMENT COLLEGE FOR WOMEN (A) KUMBAKONAM, THANJAVUR DISTRICT, TAMIL NADU, INDIA
6	P19ZO006	V. DURGADEVI	A CASE STUDY ON BIRD ABUNDANCE OF AGRO ECOSYSTEM IN PUDHUPADAIYUR VILLAGE, THANJAVUR DISTRICT, TAMIL NADU
7	P19ZO007	V. GIRIJA	GREEN SYNTHESIS AND CHARACTERIZATION OF SILVER NANOPARTICLES USING CAPPARIS ZEYLANICA AGAINST DENGUE VECTOR AEDES ALBOPICTUS
8	P19ZO008	S. GOWRI	LARVICIDAL ACTIVITY OF CROTON BONPLANDIANUS BAILL. (EUPHORBIACEAE) LEAF EXTRACTS ON THE MALARIA VECTOR ANOPHELES SUBPICTUS (DIPTERA:CULICIDAE)
9	P19ZO009	J. JOHN MECIYA	EFFECT OF ZnO/ SiO ₂ NANOCOMPOSITE AGAINST AEDES AEGYPTI MOSQUITO VECTOR
10	P19ZO010	J. JOHN STEPHINA	STUDIES ON DECOLORISATION OF WASTE USING OCTIMUM TENUIFLORUM AND HEMIDESMUS INDICUS ACTIVATED CARBON
11	P19ZO011	D. NITHYA	AMPHIBIANS ABUNDANCE IN WATER BODIES OF THIRUCHIRAI VILLAGE, THANJAVUR DISTRICT, TAMIL NADU
12	P19ZO012	D. PAVITHRA	PREVALENCE OF DIABETES MELLITUS IN THE URBON POPULATION OF KUMBAKONAM, TAMIL NADU
13	P19ZO013	V. ROJAMARY	STUDIES ON BIOCHEMICAL PROPERTIES OF MUSCLE, LIVER AND KIDNEY IN FINFISH, MUGIL CEPHALUS (LINNAEUS, 1758)

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14	P19ZO014	B. SAVITHIRI	EFFECT OF DIFFERENT TEA POWDER WASTE MEDIA ON THE GROWTH AND COCOON PRODUCTION OF EISENIA FETIDA
15	P19ZO015	R. SENTHOORIYA	EFFECT OF MERCURIC CHLORIDE ON BLOOD COMPONENTS OF FRESH WATER FISH LABIO ROHITA (HAM.)
16	P19ZO016	R. SINDHUJA	STUDIES ON THE GREEN SYNTHESIS OF Mg DOPED ZnS NANOPARTICLES ON FRESH WATER FISH OREOCHROMIS MOSSAMBICUS
17	P19ZO017	G. SOFIKA	MOSQUITO LARVICIDAL ACTIVITY OF AROMATIC GINGER KAEMPFERIA GALANGAL L. (ZINGIBERACEAE) ESSENTIAL OIL AGAINST FILARIASIS VECTOR CULEX QUINQUEFASCIATUS (DIPTERIA: CULICIDAE)
18	P19ZO018	V. SUGANYA	EFFECT OF POPULATION DENSITY ON GROWTH, REPRODUCTION, SURVIVAL AND BIOCHEMICAL COMPOSITION OF THE FRESH WATER DIAPHNASOMA BRACHYURUM (KOROVCHINSKY N.M)
19	P19ZO019	S. VARSHA	EFFECT OF DIFFERENT MANGIFERA INDICA LEAVES MEDIA ON THE GROWTH AND COCOON PRODUCTION OF DUDRILUS EUGENIAE
20	P19ZO020	S. YUVARANI	TOXIC EFFECT OF INSECTICIDE, PROFENOFOS ON THE BIOMASS OF AN INDIAN EARTHWARM, LAMPITO MAURITII (KINBERG) (ANNELIDA: OLIGOCHAETA)



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1	P20ZO001	R. AKILA	COMPARATIVE STUDY ON BIRDS ABUNDANCE OF VARIOUS ECOSYSTEM
2	P20ZO002	S.ANNAPOORANI	LARVICIDAL EFFECTS OF CALENDULA OFFICINALIS (ASTERACEAE) LEAF EXTRACTS ON THE MALARIA VECTOR ANOPHELES STEPHENSI (DIPTERA:CULICIDAE)
3	P20ZO003	K. ATCHAYA	A STUDY ON THE GROWTH AND COCOON PRODUCTION OF EUDRILUS EUGENIAE CULTURED IN DIFFERENT THESPIA POPULNEA LEAVES WASTE MEDIA
4	P20ZO004	S. DIVYAJOTHI	PREVALENCE OF DIABETIC MELLITUS IN KODAVASAL TOWN AND ANTIDIABETIC EFFECT OF WHITE FLOWERS OF CATHARANTHUS ROSEUS THROUGH TRADITIONAL METHOD OF DECOCTION CONSUMPTION
5	P20ZO005	R. GUNAVATHI	A COMPARATIVE STUDY ON POPULATION DENSITY OF BLACK KITE (MILVUS MIGRANS) AND BRAHMINY KITE (HACIASTUR INDUS) IN DIFFERENT HABITAT AT TAMIL NADU, INDIA
6	P20ZO006	N.HARIPRIYA	BIO SYNTHESIS AND CHARACTERIZATION OF IORN OXIDE NANOPARTICLE USING HELIANTHUS ANNUUS SEEDS AND ANALYSIS OF THEIR ANTIFUNGAL ACTIVITY
7	P20ZO007	K.JASMINE BEGAM	STUDIES ON LENGTH WEIGHT RELATIONSHIP OF CRAB, PORTUNUS SANGUINOLENTUS (HERBST, 1783), IN NAGAPATTINAM COASTAL WATERS SOUTHEAST COAST OF INDIA.
8	P20ZO008	T. KEERTHI	STUDIES ON LENGTH WEIGHT RELATIONSHIP OF FISH, SILLAGO SEHAMA (FORSSKAL, 1775) IN NAGAPATTINAM COASTAL WATERS, SOUTHEAST COAST OF INDIA
9	P20ZO009	R.KIRUTHIGA	ROLE OF LEAF EXTRACT OF CARICA PAPAYA (LINN.) AGAINST MERCURIC CHLORIDE INDUCED NEPHROTOXICITY IN FRESH WATER FISH LABEO ROHITA (HAMILTON)
10	P20ZO010	K.LAVANYA	HELIANTHUS ANNUUS SEEDS EXTRACT ASSISTED BIO SYNTHESIS OF IRON NANOPARTICLES CHARACTERISATION AND ANTIBACTERIAL STUDY
11	P20ZO011	K.MONIKA	EFFICACY OF MATRICARIA CHAMOMILLA (ASTERACEAE) ESSENTIAL OIL AGAINST FILARIASIS VECTOR CULEX QUINQUE FASCIATUS (DIPTERAL: CULICIDAE)
12	P20ZO012	J.MONISHA	TOXIC EFFECT OF THIACLOPRID ON DIGESTIVE ENZYMES OF, LAMPITO MAURITII (KINBERG) GUT AND NUTRITIVE VALUE OF VERMICOMPOST (ANNELIDA: OIOCHAETA)

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13	P20ZO013	T. MONISHA	THE UTILIZATION OF ASYSTASIA GANGETICA IN GREEN SYNTHESIS OF SILVER NANOPARTICLES TO COMBAT THE DENGUE VECTOR AEDEES ALBOPICTUS
14	P20ZO014	S.NARMATHA	BACTERIAL DIVERSITY IN THE GUT OF EARTHWORMS DISSIMILAR KINDS OF SOIL
15	P20ZO015	P.PAVITHRA	HEMATOLOGICAL STUDIES OF THE FRESHWATER ZOOPLANKTON MACROCYCLOPS EDAX
16	P20ZO016	K.PUJITHA	PREVALENCE OF DIABETIC MELLITUS IN KOOTHANALLUR TOWN AND ANTIDIABETIC EFFECT OF JAMUN (SYZGIUM CUMINI) SEED POWDER THROUGH TRADITIONAL METHOD RANTHUS ROSEUS THROUGH TRADITIONAL METHOD OF DECOCTION CONSUMPTION
17	P20ZO017	R.RAJALAKSHMI	ANTIBACTERIAL PROPERTIES OF CHANNA STRIATUS MUCUS STRABILIZED IORN OXIDE NANOPARTICLES AGAINST FRESHWATER PATHOGENS
18	P20ZO018	R.R.RAJESHWARI	A STUDY ON THE GROWTH AND COCOON PRODUCTION OF EISENIA FETIDA CULTURED IN DIFFERENT BANANA LEAVES WASTE MEDIA
19	P20ZO019	R.R.RAMYA	VERMICOMPOST OF BANANA LEAVES USING AN INDIAN EARTHWORM LAMPITO MAURITII (KINBERG) (ANNELIDA: OLIGOCHETA)
20	P20ZO020	R.SHANUMUGAPRIYA	ANTIBACTERIAL ACTIVITY OF PILA GLOBOSA MUCUS STABILIZED IRON OXIDE NANOPARTICALS AGAINST FRESH WATER PATHOGENS
21	P20ZO021	K.SUBASHINI	HEMATOLOGICAL STUDIES OF THE FRESHWATER ZOOPLANKTON THERMOCYCLOPS HYALINUS
22	P20ZO022	S.SUVETHA	STUDIEDS ON LENGTH AND WEIGHT RELATIONSHIP OF WHITE SHRIMP,PENAEUS INDICUS (H. MILNE, EDWARD,1837) IN NAGAPATTINAM COASTAL WATERS, SOUTHEST COAST OF INDIA
23	P20ZO023	V.VANISRI	COMPARTIVE OF BIOACTIVITY OF TRIGONELLA FORNUM ADHELIANTHUS ANNUUS SPROUTS GROWN BY AQUAPONICS
24	P20ZO024	M.VINOTHINI	TOXICITY OF THIACTLOPRID (INSECTICIDE) ON BIOMASS, BACTERIAL AND FUNGAL POPULATION OF AN INDIAN EARTHWORM, LAMPITO MAURITII (KINBERG) (ANNELIDA; OLIGOCHAETA)
25	P20ZO025	S. VINOTHINI	INFLUENCE OF LEAF EXTRACT OF CARICA PAPYA (LINN.) AGAINST MERCURIC CHLORIDE INDUCED TOXICITY IN LIVER TISSUE OF FRESH WATER FISH LABEO ROHITA(HAMILTON)




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RESEARCH PROJECT DETAILS
DEPARTMENT OF ZOOLOGY- 2022-2023

SL.No	ROLL NUMBER	NAME	DETAILS OF ACTIVITY
1	P21ZO001	AARTHY. K	STUDY OF BIOMASS ENZYME ACTIVITY OF LAMPITO MARURITII KINDERGARTEN DURING VERMICOMPOSTING OF COUROPITA GUIANESISUSING LEAVES (ANNELIDA:OLIGOCHETA)
2	P21ZO002	ABINA. B	EFFECT OF DIFFERENT TERMINALIA CATAPPA LEAVES MEDIA ON THE GROWTH AND COCOON PRODUCTION OF EUDRILUS EUGENIAE
3	P21ZO003	BANUMATHI. P	STUDIES OF FOOD AND FEEDING HABITS OF INDIAN MACKEREL, RASTRELLIGER KANAGURATA(CUVIER1816), AKKARAIPETTAI COASTAL WATERS, SOUTHEAST COAST OF INDIA
4	P21ZO004	BHARATHA PRIYA. S	BIOSYNTHESIS OF SILVER NANOPARTICLES USING DIGERA MURICATA AGAINST THE DENGUE VECTOR AEDES AEGYPTI
5	P21ZO005	DHARANI. V	THE COMPARATIVE BIOCHEMICAL ANALYSIS OF UNIFLORAL FRAM HONEY OF HIBISCUS AND TULSA ORIGIN
6	P21ZO006	GAYATHRI. G	STUDIES OF FOOD AND FEEDING HABITS OF RED SNAPPER LUTJANUS CAMPECHANUS (1860) IN AKKARAIPETTAI COASTAL WATERS, SOUTHEAST COAST OF INDIA TAMIL NADU
7	P21ZO007	KARPARATCHAMBIGAI. S	BIOSYNTHESIS OF SILVER NANOPARTICLES USING PUMPKIN SEEDS (CUCURBITA PEPO) EXTRACT ASSISTED ANTIBACTERIAL ACTIVITY AND CHARACTERIZATION
8	P21ZO008	KARTHIKA. N	BIOSYNTHESIS AND CHARACTERIZATION OF SILVER NANOPARTICLES USING CUCURBITA PEPO SEEDS AND ANALYSIS OF THEIR ANTIFUNGAL ACTIVITY
9	P21ZO009	KOKILAVANI. K	EFFICACY OF EDTA AGAIST MERCURIC CHLORIDE INDUCED BEHAVIORAL CHANGES IN THE FRESH WATER FISH LABEO ROHITA (HAMILTON)
10	P21ZO010	MAHESWARI. V	EVALUATION OF THE SELECTED PLANTS AND THEIR IMPACTS ON PEST CONTROL (CALLOSOBRUCHUS MACULATUS)

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11	P21ZO011	NITHYA. N	CULTURE OF EPIGENIC EARTHWORM EISENIA FETIDA UNDER BERMUDA GRASS WASTES AND EFFECTS OF BERMUDA GRASS VERMICOMPOST ON THE GROWTH OF LADYFINGER PLANT
12	P21ZO012	SATHYA. V	Pollen and biochemical analysis of honey samples
13	P21ZO013	SUBALAKSHMI. R	EFFECTS OF THE SELECTED PLANT POWDERS FOR CONTROLLING STORED GRAIN PEST RICE WEEVIL (SITOPHILUS ORYZAE)
14	P21ZO014	SURYA. K	EFFECTIVENESS OF GLUTATHIONE AGAINST MERCURIC CHLORIDE INDUCED EFFECT IN FRESH WATER FISH LABEO ROHITA (HAMILTON)
15	P21ZO015	UMA. J	MOSQUITO LARVICIDAL EFFICACY OF DIGERA MURICATA PLANT EXTRACTS AGAINST ZIKA VIRUS VECTOR AEDES ALBOPICTUS
16	P21ZO016	VANITHA. A	BIOMASS, MICROBIAL POPULATION AND NUTRIENT ANALYSIS OF VERMICOMPOSTING OF LEAF LITTERS BY USING INDIAN EARTHWORM I. MARURITII (KINBERG) (ANNELIDA:OLIGOCHETA)



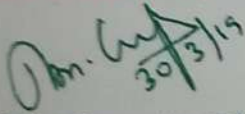
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Assistant Professor of Zoology
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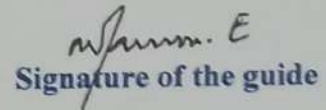


CERTIFICATE

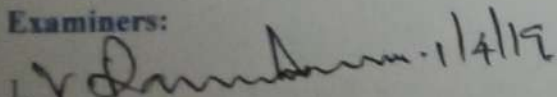
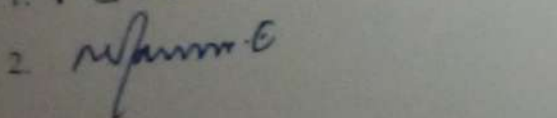
This is to certify that the dissertation entitled "Isolation, Purification and Charecterization of Chitin from Marine Long-Eyed Swimming Crab (*podophthalmus vigil*, fabricius, 1798 off Parangipettai coast, Southeast India " submitted in partial fulfillment of the requirement for the degree of Master of Science in Zoology during the period of **2017-2019** to the Government college for Women (Autonomous), Kumbakonam affiliated to the Bharathidasan University, Thiruchirapalli is a bonafide record of the work carried out by the **A.Abinaya Sundari (Reg.No:PI7ZOOO1)** Under my supervision and guidance.


30/3/19

Head of the Department


Signature of the guide

Examiners:

1.  1/4/19
2. 

Dr. V.KAVITHA M.Sc., M.Phil., Ph.D

Assistant Professor in Zoology,

Government College for Women (A),

Kumbakonam- 612 001.



Certificate

This is to certify that the dissertation entitled, ("EFFICIENCY OF COFFEE AND TEA GROUND WASTE ON EARTHWORM BIOMASS, PHYSICO-CHEMICAL PROPERTIES OF VERMICOMPOST AND PLANT GROWTH") submitted by **Mrs. M. AKILA, B.Sc., B.Ed.**, (Reg. No. P17ZO002) in partial fulfillment of the requirements for the award of degree of Master of Science in Zoology during the period of 2018-2019 was done under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

V. Kavitha 30/03/19
Signature of the Guide

Don. Kavitha 30/3/19
Signature of the HOD Sc., M. Phil., Ph. D.
Head & Associate Professor in Zoology
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Examiners

1. V. Kavitha 14/4/19

2. V. Kavitha 1/04/19

Submitted for the viva-voce examination held on 1.04.2019.

Dr. M. GOVINDARAJAN,
M.Sc., M.Phil., Ph.D.,
Assistant Professor,
Department of Zoology,
Govt. College for Women (A),
Kumbakonam - 612001.
Tamil Nadu, India.
Email: drgovind1979@gmail.com
Cell: 9585265999



Certificate

This is to certify that the dissertation entitled, "LOW- COST AND ECO-FRIENDLY EVALUATION OF *SMILAX ZEYLANICA* L. (FAMILY: SMILACACEAE) EXTRACTS AGAINST THE DENGUE VECTOR, *AEDES AEGYPTIL*. (DIPTERA: CULICIDAE)" submitted by Miss. D. AKILANDESHWARI (Reg. No. P17ZO003) in partial fulfillment of the requirements for the award of degree of Master of Science in Zoology during the period of 2018-2019 under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

Dr. S. Venkatalakshmi
30/3/19

Signature of the HOD
Dr.S.Venkatalakshmi.M.Sc.,M.Phil.,Ph.D.
Head & Associate Professor in Zoology
Government College For Woman (A)
Kumbakonam-612001.

M. Govindarajan
29.03.19

Signature of the Guide
Dr.M.GOVINDARAJAN,
M.Sc., M.Phil., Ph.D.,
Assistant Professor of Zoology,
Government College for Women (A),
Kumbakonam-612001,
Tamilnadu,India.

Submitted for the via-voce examination held on 1.4.2019

M. Govindarajan
01/04/2019
Internal Examiner

Dr. S. Venkatalakshmi
11/4/19
External Examiner

Dr. A.V. KAVITHA M.Sc., M.Phil., Ph.D.,

Assistant Professor

Department of Zoology



Government College for Women (A)

Kumbakonam – 612 001 ,

Thanjavur (dt)

CERTIFICATE

This is to certify that the project work was done under my guidance and dissertation entitled **EFFECT OF MERCURIC CHLORIDE AND THE INFLUENCE OF *Ocimum Sanctum* IN BIOENZYMOLOGICAL STUDIES ON FISH *Labeo rohita* (HAM.)** Submitted by Miss **R. DEVIKA** (Reg.No. P17ZO005) in partial fulfillment of the requirements of the M.Sc., Degree Course for the academic period 2018-2019 in the subject of Zoology is the original work of the candidate.

Dr. S. Venkatalakshmi
01/04/19

Signature of the HOD

A.V. Kavitha
30/3/19

Signature of the Guide

Dr. S. Venkatalakshmi, M.Sc., M. Phil., Ph.D.
Head & Associate Professor in Zoology
Government College For Woman (A)
Kumbakonam-612001.

Dr. A.V. KAVITHA, M.Sc., M.Phil., Ph.D.,
Assistant Professor
Department of Zoology
Government College for Women
Kumbakonam - 612 001.

Examiner

1. *S. Venkatalakshmi* 14/1/19

2. *A.V. Kavitha* 01/04/19



**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS),
KUMBAKONAM – 612 001**

Dr. V. RAVI M.Sc., M.Phil., Ph.D
Assistant Professor,
PG & Research Department of Zoology

Date: 01.04.2019

CERTIFICATE

This is to certify that the project was done under my guidance and the dissertation entitled '**STUDIES ON THE SILVER POMFRET, *PAMPUS ARGENTEUS* (EUPHRASEN 1788), NAGAPATTINAM, SOUTHEAST COAST OF INDIA**' submitted by **J.Chandraleka (P17ZO004)** in partial fulfillment of the requirement of the **M.Sc., Degree** course for the academic period **2017 – 2019** in the subject Zoology is a critical study by the candidate.

Ami. Ravi
01.04/19

Signature
of the Head of the Department

Ravi

Signature
of the Research Guide
(V. RAVI)

Examiner

1. *[Signature]*

2. *[Signature]*

Miss. J. Ananthi, M.Sc., M.Phil.,
Guest Lecturer,
Department of Zoology,
Govt. College for Women (A),
Kumbakonam - 612001,
Tamil Nadu,
India.



Certificate

This is to certify that the dissertation entitled, "EVALUATION OF ANTIMICROBIAL ACTIVITY OF COW URINE WITH NEEM (*Azadirachta indica*) EXTRACT ON PATHOGENIC FISH MICROBIAL STRAINS" submitted by **Miss. M. MANJULA (Reg. No. P17ZO007)** in partial fulfillment of the requirements for the award of degree of Master of Science in Zoology during the period of 2018-2019 was done under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

J. Ananthi
30/3/19

Signature of the Guide

Dr. S. Venkatalakshmi
30/3/19

Signature of the HOD

Dr. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.
Head & Associate Professor in Zoology
Government College For Women (A)
- Kumbakonam-612001.

Examiners

1. *V. Ramakrishna* - 10/4/19.

2. *J. Ananthi* - 01.4.19

Submitted for the viva-voce examination held on *1.4.2019*



GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM – 612 001

Dr. V. RAVI M.Sc., M.Phil., Ph.D
Assistant Professor, Department of Zoology

Date: 01.04.2019

CERTIFICATE

This is to certify that the project was done under my guidance and the dissertation entitled 'STUDIES ON THE ROHU FISH, *LABEO ROHITA* (HAMILTON, 1822) FROM FISH FARM, SWAMIMALAI, THANJAVUR DISTRICT' submitted by S. MYTHILI (P17ZO009) in partial fulfillment of the requirement of the M.Sc., Degree course for the academic period 2017 – 2019 in the subject Zoology is a critical study by the candidate.

Dr. V. Ravi
01/04/19

Signature
of the Head of the Department
Dr. Venkatalakshmi, M.Sc., M.Phil., Ph.D.
Head & Associate Professor in Zoology
Government College For Woman (A)
Kumbakonam-612001.

V. Ravi

Signature
of the Research Guide
(V. RAVI)

Examiner

1. *V. Ravi* 01/04/19.
2. *V. Ravi*

Dr. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.,
Head & Associate Professor,
Controller of the Examination,
Department of Zoology,
Govt. College for Women (A),
Kumbakonam - 612001,
Tamil Nadu,
India.



Certificate

This is to certify that the dissertation entitled, **"EFFECT OF DURATION OF EXPOSURE FOR GIR CUD TREATMENT ON THE COPEPOD POPULATION DENSTIY"** submitted by Miss. M. PRIYA (Reg. No. P17ZO011) in partial fulfillment of the requirements for the award of degree of Master of Science in Zoology during the period of 2018-2019 was done under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

Dr. S. Venkatalakshmi
30/3/19

Signature of the Guide

வினங்கியல் துறைத்தலைவர்
அரசினர் மகளிர் கல்வியறிவு (குன்னாட்சி)
கும்பகோணம்-612001.

Examiners

1. *V. S. S. S.*
17/4/19

2. *Dr. S. Venkatalakshmi*
17/4/19

Dr. S. Venkatalakshmi
30/3/19

Signature of the HOD

Dr. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.
Head & Associate Professor in Zoology
Government College For Women (A)
Kumbakonam-612001.

Submitted for the viva-voce examination held on 01.04.2019

Dr.R.Balasubramanian, M.Sc., M.Phil., Ph.D.,

Assistant Professor

PG & Research Department of Zoology

Government College for Women (A), Kumbakonam 612 001

Mobile: 9487882215

E.mail: balaram_r2@rediffmail.com

.....

CERTIFICATE

This is certify that the dissertation "Studies on species distribution and diversity of earthworms in Thadhampettai Palur region, Aryalur (Dt) Tamil Nadu" submitted in partial fulfillment of the requirements for the degree of Master of Science in Zoology during the period of 2018-2019 to the Government College for Women (A), Kumbakonam 612 001. Affiliated to the Bharathidasan University, Thirichirapalli is a bonafide record work carried out by K. Sathyabama (Reg. No. P17Zo013) under my supervision.

Dr. Venkatalakshmi
30/4/19
Dr. S. Venkatalakshmi. M.Sc., M.Phil., Ph.D.
Head of the Department
Head & Associate Professor in Zoology
Government College For Woman (A)
Kumbakonam-612001.

R. Baby
01.04.2019
Research Guide

- Examiners -
- Volaram* 11/4/19.
 - R. Baby* 01.04.19.

Dr. (Mrs.) D.SOUMADY, M.Sc., M.Phil., Ph.D., PGDTA., M.D.,
(Acu)
Assistant Professor in Zoology,
PG & Research Department of Zoology,
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Kumbakonam – 612 001.



CERTIFICATE

This is to certify that the dissertation entitled “COMPARATIVE STUDY OF ANTIBACTERIAL ACTIVITY OF ORGANIC TURMERIC AND AACHI TURMERIC AGAINST SELECTED FISH PATHOGENS” Submitted in partial fulfillment of the requirements for the degree of Master of Science in Zoology during the period of 2017-2019 to the Government College for Women (Autonomous), Kumbakonam affiliated to the Bharathidasan University, Thiruchirappalli is a bonafide record of the work carried out by the **G.SHAMINI (Reg.No: P17ZO014)** under my supervision and guidance.

Dr. S. Venkatalakshmi
30/3/19

Head of the Department

Dr. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.
Head & Associate Professor in Zoology
Government College For Women (A)
Kumbakonam-612001.

Dr. Mrs. D. Soumady
29/03/19

Signature of the Guide

Dr. Mrs. D. SOUMADY
M.Sc. M.Phil. Ph.D.
Assistant Professor in Zoology
Govt. College for Women (Autonomous)
Kumbakonam 612001

Examiners

1. *V. Dammam* 11/4/19.

2. *Dr. Mrs. D. Soumady*
07/04/19

Dr. (Mrs.) D.SOUMADY, M.Sc., M.Phil., Ph.D., PGDTA., M.D.,
(Acu).

Assistant Professor in Zoology,
PG & Research Department of Zoology,
Government College for Women (Autonomous),
Kumbakonam - 612 001.



CERTIFICATE

This is to certify that the dissertation entitled "ANTIBACTERIAL ACTIVITY OF SELECTED HERBALS *AZADIRAHTA INDICA* AND *MELIA AZEDARACH* AGAINST FISH PATHOGENS" Submitted in partial fulfillment of the requirements for the degree of Master of Science in Zoology during the period of 2017-2019 to the Government College for Women (Autonomous), Kumbakonam affiliated to the Bharathidasan University, Thiruchirappalli is a bonafide record of the work carried out by the S.SITA (Reg.No: P17ZO015) under my supervision and guidance.

[Handwritten Signature]
20/3/19

[Handwritten Signature]
29/03/19
Signature of the Guide
Dr. Mrs. D. SOUMADY
M.Sc., M.Phil., Ph.D.
Assistant Professor in Zoology
Govt College for Women (Autonomous)
Kumbakonam 612001

Head of the Department
Dr. V. Lakshmi M.Sc., M.Phil., Ph.D.
Head of & Associate Professor in Zoology
Government College for Women (Autonomous)
Kumbakonam - 612001

Examiners
1. *[Handwritten Signature]* 14/19
2. *[Handwritten Signature]* 01/4/19

Dr. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.,
Head & Associate Professor,
Controller of the Examination,
Department of Zoology,
Govt. College for Women (A),
Kumbakonam – 612001.
Tamil Nadu,
India.



Certificate

This is to certify that the dissertation entitled, **"EFFECT OF DIFFERENT CONCENTRATION OF GIR CUD ON ENHANCING THE COPEPOD POPULATION DENSTIY"** submitted by Miss. V. SUBHASRI (Reg. No. P17ZO017) in partial fulfillment of the requirements for the award of degree of Master of Science in Zoology during the period of 2018-2019 was done under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

Dr. S. Venkatalakshmi
30/3/19

Signature of the Guide

Dr. S. Venkatalakshmi
30/3/19

Signature of the HOD

Dr. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.
Head & Associate Professor in Zoology
Government College For Woman (A)
Kumbakonam-612001.

Examiners

1. *V. Subhasri* 11/03/19

2. *Dr. S. Venkatalakshmi*
30/3/19

Submitted for the viva-voce examination held on ..01..04..2019

Dr. S. VENKATLAKSHMI, M.Sc., M.Phil., Ph.D.,
Head & Associate Professor,

PG & Research Department of Zoology,
Government College for Women
(Autonomous)
Kumbakonam - 612 001.



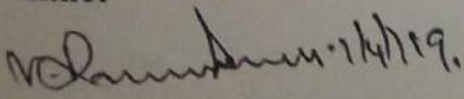
CERTIFICATE

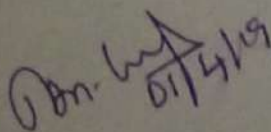
This is to certify that the dissertation entitled "**Studies on Length-Weight Relationship of Grow-Out and loose-shell affected *Litopenaeus Vannamei* low salinity water from Tamil Nadu, India.**" submitted by **S. SUGANYA** Reg. No. **P17ZOO18** in partial fulfilment of the requirement for the degree of **MASTER OF SCIENCE IN ZOOLOGY** of **Government College for Women (Autonomous) Kumbakonam (Affiliated by Bharathidasan University - Thiruchirappalli)** is based on the results of the students carries out under my guidance and supervision during the academic year 2018 - 2019.

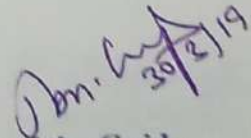
Place: Kumbakonam

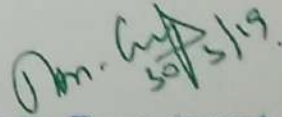
Date:

Examiner

1.  14/1/19.

2.  01/4/19


Signature of the Guide


Head of the Department

Dr. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.
Head & Associate Professor in Zoology
Government College For Women (A)
- Kumbakonam-612001.

Submitted for the viva-voce examination held on 01/4/2019

Dr.R.Balasubramanian, M.Sc., M.Phil., Ph.D.,

Assistant Professor

PG & Research Department of Zoology

Government College for Women (A), Kumbakonam 612 001

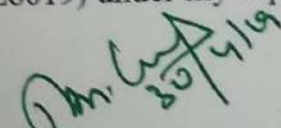
Mobile: 9487882215

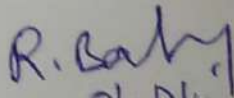
E.mail: balaram_r2@rediffmail.com

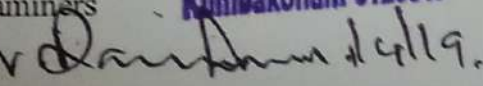
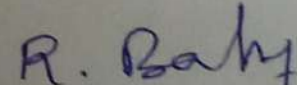
.....

CERTIFICATE

This is certify that the dissertation “ Studies on Biochemical concentration of earthworm, *Lampito mauritii* (L) in Kumbakonam region, Tamil Nadu” submitted in partial fulfillment of the requirements for the degree of Master of Science in Zoology during the period of 2018-2019 to the Government College for Women (A), Kumbakonam 612 001. Affiliated to the Bharathidasan University, Thirichirapalli is a bonafide record work carried out by P.Vijayalakshmi (Reg. No. 17Zo019) under my supervision.


Dr. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.
Head & Associate Professor in Zoology
Government College For Woman (A)
Kumbakonam-612001.


01.04.2019
Research Guide

- Examiners
1. 
 2. 
01.04.2019

Dr. G. Priya, M.Sc., M.Phil., Ph.D.,
Lecturer in Zoology,
Government College for Women (Autonomous),
Kumbakonam-612 001.



CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled "GROWTH PROMOTING EFFECT OF COW URINE WITH *OCCIMUM SANCTUM* OF DIFFERENT BREEDS ON *LABEO ROHITA*" submitted by Miss. P. VIJAYALAKSHMI (Reg.No.P17ZO020) in partial fulfillment of the requirements of the M.Sc., Degree Course for the academic period 2018-2019 in the subject of Zoology is the original work of the candidate.

S. Venkatesh
01/04/19

Signature of the HOD

Dr. S. Venkatesh, M.Sc., M.Phil., Ph.D.,
Head & Associate Professor,
Zoology
Government College for Women (A)
Kumbakonam-612001.

Examiner

G. Priya 1.4.19
Signature of the Guide

Dr. G. PRIYA
Dept. of Zoology.

1. *S. Venkatesh* 11/4/19.

2. *G. Priya* 1.4.19

Dr. G. Priya, M.Sc., M.Phil., Ph.D.,
Lecturer in Zoology,
Government College for Women (Autonomous),
Kumbakonam-612 001.



CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled "GROWTH PROMOTING EFFECT OF COW URINE WITH *OCCIMUM SANCTUM* OF DIFFERENT BREEDS ON *LABEO ROHITA*" submitted by Miss. P. VIJAYALAKSHMI (Reg.No.P17ZO020) in partial fulfillment of the requirements of the M.Sc., Degree Course for the academic period 2018-2019 in the subject of Zoology is the original work of the candidate.

Dr. S. Venkatalakshmi
01/04/19

Signature of the HOD

Dr. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.
Head & Assistant Professor
Government College for Women (A)
Kumbakonam-612001.

P. Vijayalakshmi 1.4.19
Signature of the Guide

Dr. G. PRIYA

Dept. of Zoology.

Examiner

1. *V. Chandrasekaran* 11/4/19.

2. *P. Vijayalakshmi*
1.4.19

Dr. M. DEIVANAYAKI, M.Sc., M.Phil., Ph.D.,
Lecturer in Zoology,
Government College for Women (Autonomous),
Kumbakonam-612001.



CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled "**CULTURE OF EPIGEIC EARTHWORM, EISENIA FETIDA UNDER GREENGRAM WASTES AND EFFECTS OF GREENGRAM VERMICOMPOST ON THE GROWTH AND YIELD OF OKRA PLANT (ABELMOSCHUS ESCULENTUS)**" Submitted by Miss. B. VIJITHA (Reg.No.P17ZO021) in partial fulfillment of the requirements of the M.Sc., Degree Course for the academic period 2018-2019 in the subject of Zoology is the original work of the candidate.

[Handwritten Signature]
30/3/19

Signature of the HOD

Dr.S.Venkatalakshmi.M.Sc.,M.Phil.,Ph.D.
Head & Associate Professor in Zoology
Government College For Woman (A)
Kumbakonam-612001.

Examiner

[Handwritten Signature]
30.03.2019

Signature of the Guide

1. *[Handwritten Signature]* 1/4/19.

2. *[Handwritten Signature]* 1/4/19

Dr. A.V. KAVITHA, M.Sc., M.Phil., Ph.D.,

Assistant Professor in Zoology

Govt, College for Women (Auto.)

Kumbakonam.

Date : 25.09.2020

CERTIFICATE

Certified that this project in "HAEMATOLOGICAL STUDIES OF FRESHWATER FISH *LABEO ROHITA* (HAMILTON) EXPOSED TO DIFFERENT MEDIAN - LETHAL CONCENTRATION OF MERCURIC CHLORIDE" is a bonafied record of work done by

B. AARTHI

Reg.No: P18ZO001

Under my supervision and submitted to Bharathidasan university in partial fulfillment of the requirements for the award of the Degree of Master of Science in Zoology.

A.V. Kavitha
25/09/2020

A.V. Kavitha
25/09/2020
Signature of the Guide

Signature of the head of the Department

Examiners : 1.

A.V. Kavitha

2.

Gd. Reddy
25.09.2020

Dr. R. Balasubramaniyan, M.sc., M, Phil., Ph.D.,
Assistant professor,
PG& Research Department of Zoology,
Government College for Women (Autonomous),
Kumbakonam-612 001,
Mobile: 9487882215,
E. Mail: balaram_r2@rediffmail.com.



CERTIFICATE

This is to certify that the dissertation "STUDIES ON MACROBENTHIC FORM DISTRIBUTION IN VAILANKANNI COASTAL WATERS, SOUTHEAST COASTAL OF INDIA" submitted in fulfilment of the requirements for the degree of Master of science in Zoology during the period of 2018-2020 to the Government College for women (Autonomous), Kumbakonam. Affiliated to the Bharathidasan University, Thiruchirappali is a bonafide record work carried out by the P.AKILA (Reg. No: P18ZO002) under my supervision.

Dr. R. Balasubramaniyan
29/09/2020

Head of the Department

P. Akila
Research Guide

Examiners

Dr. R. Balasubramaniyan
29/09/2020
G. J. Jeyaraj
25.09.2020

Dr. M. GOVINDARAJAN,
M.Sc., M.Phil., Ph.D.,
Assistant Professor,
Department of Zoology,
Govt. College for Women (A),
Kumbakonam - 612001.
Tamil Nadu, India.
Email: drgovind1979@gmail.com
Cell: 9585265999



Certificate

This is to certify that the dissertation entitled, "Biogenic fabrication and characterization of silver nanoparticles using *Oxalis debilis* (Oxalidaceae) against mosquito vectors" submitted by Miss. K. KLAKKIYA (Reg. No. P18ZO003) in partial fulfilment of the requirements for the award of degree of Master of Science in Zoology during the period of 2019-2020 under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

Signature of the HOD

Signature of the Guide

Dr.M.GOVINDARAJAN,
M.Sc., M.Phil., Ph.D.,
Assistant Professor of Zoology,
Government College for Women (A),
Kumbakonam-612001,
Tamilnadu, India.

Submitted for the viva-voce examination held on

Internal Examiner

External Examiner



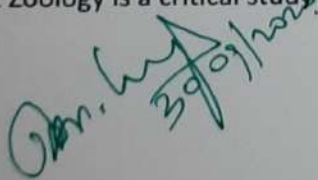
**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS),
KUMBAKONAM - 612 001**

Dr. V. RAVI M.Sc., M.Phil., Ph.D
Associate Professor
PG & Research Department of Zoology

Date: 25.09.2020

CERTIFICATE

This is to certify that the project was done under my guidance and the dissertation entitled 'STUDIES ON THE BIODIVERSITY OF FRESHWATER FISHES FROM LOWER ANAIKARAI DAM, TAMIL NADU, INDIA' submitted by B. JAYAPRIYA (Reg. No: P18ZOO04) in partial fulfillment of the requirement of the M.Sc., Degree course for the academic period 2018-2020 in the subject Zoology is a critical study by the candidate.


Signature
of the Head of the Department


Signature
of the Research Guide

Examiner

1. 

2.

Dr. E. Natarajan., M.Sc., M.Phil., D.F.Sc., NET., Ph.D.,
Assistant Professor of Zoology
PG & Research Department of Zoology
Government College for Women (Autonomous)
KUMBAKONAM-612001.



CERTIFICATE

This is to certify that the dissertation entitled "In-vitro Evaluation of Antioxidant Properties of Collagen from Marine fish, Red banded Snapper (*Lutjanus argentimaculatus*)" submitted in partial fulfillment of the requirement for the degree of Master of Science in Zoology during the period of 2018-2020 to the Government college for Women (Autonomous), Kumbakonam affiliated to the Bharathidasan University, Thiruchirapalli is a bonafide record of the work carried out by the M.Kaviya (Reg.No:P18ZOO06) Under my supervision and guidance.

Head of the Department

Signature of the guide

Examiners:

1.

[Handwritten signature]
25/09/2020

2.

[Handwritten signature]
25.09.2020

Miss. J. ANANDHI, M.Sc., M.Phil., Ph.D.,

Guest Lecturer,

PG& Research Department of Zoology,

Government College for Women (Autonomous),

Kumbakonam-612 001,

Mobile: 9488885954,

Mail Id: ananthizooology@gmail.com



CERTIFICATE

This is to certify that the dissertation “ **EFFECT OF COW URINE AND IT'S COMBINATION WITH NEEM EXTRACT ON ANTIBACTERIAL ACTIVITY AGAINST FISH PATHOGENS**” submitted in fulfilment of the requirements for the degree of Master of science in Zoology during the period of 2018-2020 to the Government College for women (Autonomous), Kumbakonam. Affiliated to the Bharathidasan University, Thiruchirappali is a bonafide record work carried out by the **B.MEENA** (Reg. No: **P18ZO008**) under my supervision.

[Handwritten Signature]
25/09/2020

Head of the Department

[Handwritten Signature]
Research Guide

Examiners

1. *[Handwritten Signature]*
25/09/2020
2. *[Handwritten Signature]*
25-9-2020

Dr .G. PRIYA M.sc., M .Phil., Ph.D .,

Lecturer,

PG& Research Department of Zoology,

Government College for Women (Autonomous),

Kumbakonam-612 001.



CERTIFICATE

This is to certify that the dissertation "HEALTH STATUS OF NARIKURAVAS COMMUNITY (WOMEN & GIRL CHILDS) IN EZHUMAANTHIDAL VILLAGE IN TAMILNADU" submitted in fulfilment of the requirements for the degree of Master of science in Zoology during the period of 2018-2020 to the Government College for women (Autonomous), Kumbakonam. Affiliated to the Bharathidasan University, Thiruchirappali is a bonafide record work carried out by the G.NILA (Reg. No: P18ZO009) under my supervision.

G. Priya
25/09/2020

Head of the Department

G. Priya
25.09.2020
Research Guide
(Dr. G. PRIYA)

Examiners

G. Priya
25.09.2020
G. Priya
25.4.2020



**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS),
KUMBAKONAM - 612 001**

Dr. V. RAVI M.Sc., M.Phil., Ph.D
Associate Professor
PG & Research Department of Zoology

Date: 25.9.2020

CERTIFICATE

This is to certify that the project was done under my guidance and the dissertation entitled 'STUDIES ON THE FLYING FISH, *EXOCOETUS VOLITANS* LINNAEUS, NAGAPATTINAM, SOUTHEAST COAST OF INDIA' submitted by S. NISHA (Reg. No: P18ZOO10) in partial fulfillment of the requirement of the M.Sc., Degree course for the academic period 2018- 2020 in the subject Zoology is a critical study by the candidate.

Dr. V. Ravi
25/09/2020

Signature
of the Head of the Department

S. Nisha
25/09/2020

Signature
of the Research Guide

Examiner

1.

Dr. V. Ravi
25/09/2020

2.

S. Nisha
25.09.2020

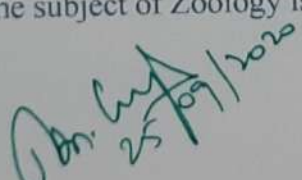
Dr. A.V. KAVITHA M.Sc., M.Phil., Ph.D.,
Assistant Professor
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Government college for women (A)
Kumbakonam - 612 001,
Thanjavur (dt).

CERTIFICATE

This is to certify that the project work was done under my guidance and dissertation entitled **EFFECT OF MERCURIC CHLORIDE AND THE INFLUENCE OF EDTA (ethylenediaminetetraacetic acid) IN BIOENZYMOLOGICAL STUDIES ON FISH *Labeo rohita* (HAM.)** submitted by Mrs S. RAMYA (Reg. No. P17ZO012) in partial fulfilment of the requirements of the M. Sc., Degree Course for the academic period 2019 - 2020 in the subject of Zoology is the original work of the candidate.


Signature of the HOD


Signature of the Guide

Examiner

1. 

2.

Dr. A.V. KAVITHA, M.Sc., M.Phil., Ph.D.,
Assistant Professor
Department of Zoology
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CERTIFICATE

This is to certify that the dissertation “ **STUDIES ON ENVIRONMENTAL INFLUENCE WITH FORAMINIFERAN SPECIES DISTRIBUTION IN KODIYAKARAI COASTAL WATERS, SOUTHEAST COAST OF INDIA**” submitted in partial fulfilment of the requirements for the degree of Master of science in Zoology during the period of 2018-2020 to the Government College for women (Autonomous), Kumbakonam. Affiliated to the Bharathidasan University, Thiruchirappalli is a bonafide record work carried out by the

N. PRIYA(Reg. No: P18ZO013) under my supervision.

Dr. R. Balasubramanian
30/07/2020

Head of the Department

R. Balasubramanian
Research Guide

Examiners

Dr. R. Balasubramanian

Dr. D.SOUMADY, Ph.D.,
Assistant professor in Zoology,
Government College for Women (A), Kumbakonam-612001.



CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **A COMPARATIVE STUDY OF AVIFAUNAL DIVERSITY IN AND AROUND KUMBAKONAM, THANJAVUR DISTRICT, TAMILNADU, INDIA.** Submitted by **S.PRIYANKA (Reg.No.P18ZO014)** in partial fulfillment of the requirements of the M.Sc., Degree Course for the academic period 2019-2020 in the subject of Zoology is the original work of the candidate.

Dr. D. Soumady
30/09/2020

Dr. Mrs. D. Soumady

Signature of the HOD

Signature of the Guide

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M.Sc. M.Phil. Ph.D.
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Examiner

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Dr. V. KAVITHA M.Sc., M.Phil., Ph.D.,
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CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled TOXIC EFFECT OF NOMINEE GOLD ON BIOMASS AND REPRODUCTIVE ABILITY OF INDIAN EARTHWORM *LAMPITO MAURITII* (KINBERG) (ANNELIDA: OLIGOCHAETA) submitted by Miss. M.RENUGA. (Reg . No. P18ZOO15) in partical fulfillment of the requirements for the M.Sc., Degree course for the academic period 2018-2020 in the subject of Zoology is the original work of the candidate.

Dr. Kavitha
25/09/2020.

Signature of the HOD

V. Kavitha
24/9/2020

Signature of the Guide

Examiner

- 1.
- 2.

Dr. Kavitha
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Dr. D.SOUMADY, Ph.D.,
Assistant professor in Zoology,
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CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **CALL BACK HOUSE SPARROW FOR CONSERVATION IN AND AROUND KUMBAKONAM, THANJAVUR DISTRICT, TAMIL NADU, INDIA** Submitted by **S.ROOPANANDHINI** (Reg.No.P18ZO017) in partial fulfillment of the requirements of the M.Sc., Degree Course for the academic period 2019-2020 in the subject of Zoology is the original work of the candidate.

Dr. D. Soumady
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S. Roopandhini

Signature of the Guide

Examiner

1.

Dr. D. Soumady
25/09/2020

2.

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ACKNOWLEDGEMENT



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CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **MONOCROTOPHOS INDUCED BIOCHEMICAL ALTERATIONS IN THE INDIAN MAJOR CARP, LABEO ROHITA** by Miss. A.SARANYA (Reg.No.P18ZO018) in partial fulfillment of the requirements of the M.Sc., Degree Course for the academic period 2019-2020 in the subject of Zoology is the original work of the candidate.

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Examiner

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1.

2.

[Handwritten Signature]

(A.SARANYA)

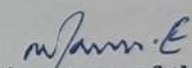
Dr. E. Natarajan., M.Sc., M.Phil.,D.FSc., NET.,Ph.D.,
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CERTIFICATE

This is to certify that the dissertation entitled “**Isolation, and Partial Characterization of Collagen from Fresh Water fish, *Labeo rohita***” submitted in partial fulfillment of the requirement for the degree of Master of Science in Zoology during the period of 2018-2020 to the Government college for Women (Autonomous), Kumbakonam affiliated to the Bharathidasan University, Thiruchirapalli is a bonafide record of the work carried out by the J.Suganya (Reg.No P18ZOO19) Under my supervision and guidance.


Head of the Department


Signature of the guide

Examiners:

1. 

2.



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Guest Lecturer in Zoology,

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CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **“EFFECT OF VERMICOMPOST ON THE GROWTH AND YIELD OF BRINJAL PLANT”** Submitted by Miss. S.VIJAYALAKSHMI (Reg.No.P18ZO020) in partial fulfillment of the requirements of the M.Sc., Degree Course for the academic period 2019-2020 in the subject of Zoology is the original work of the candidate.

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CERTIFICATE

This is to certify that the project work was done under my guidance and dissertation entitled **“ACUTE TOXICITY AND BACTERIAL POPULATION STUDY OF PRETILACHLOR ON INDIAN EARTHWORM LAMPITO MAURITII (KINBERG) (Annelida : Oligochaeta)”** Submitted by **Miss. E.ARUL NISHA (Reg.No.P19ZO001)** In partial fulfilment of the requirements of the M.Sc., Degree Course for the Academic period 2020 – 2021 in the subject of Zoology is the original work of the candidate.

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Examiner

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2. *[Handwritten Signature]*
22.04.21



Dr. V. KAVITHA., M.Sc., M.Phil., Ph.D.,
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CERTIFICATE

This is to certify that the project work was done under my guidance and dissertation entitled **“VERMICOMPOSTING OF TEAK LEAVES USING AN INDIAN EARTHWORM, *L.MAURITII* (KINBERG) (ANNELIDA:OLIGOCHAETA)”** submitted by **Mrs. A. BASIL FRANKO (Reg.No: P19ZO003)** In partial fulfilment of the requirements of the M.Sc., Degree Course for the Academic period 2020 – 2021 in the subject of Zoology is the original work of the candidate.

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22/04/2021

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22/04/2021

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Department of Zoology,
Govt. College for Women (Autonomous),
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Examiner

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Dr. D.SOUMADY, Ph.D.,

Assistant professor in Zoology,

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CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **A STUDY ON THE BIODIVERSITY OF FAUNA OBSERVED FROM COLLEGE CAMPUS OF GOVERNMENT COLLEGE FOR WOMEN (A) KUMBAKONAM, THANJAVUR DISTRICT, TAMIL NADU, INDIA.** Submitted by **R.DAYANA (Reg.No.P19ZOO05)** in partial fulfillment of the requirements of the M.Sc., Degree Course for the academic period 2020-2021 in the subject of Zoology is the original work of the candidate.

Dr. D. Soumady
22/04/21

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Dr. Mrs. D. Soumady

Signature of the Guide

Examiner



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A.V. Kuthy

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Dr. Mrs. D. Soumady

Dr. Mrs. D. SOUMADY
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CERTIFICATE

This is to certify that the dissertation "A case study on Bird abundance of agro ecosystem in Pudhupadaiyur village, Thanjavur District, Tamilnadu." submitted in fulfilment of the requirements for the degree of Master of science in Zoology during the period of 2020-2021 to the Government College for women (Autonomous), Kumbakonam. Affiliated to the Bharathidasan University, Thiruchirappali is a bonafide record work carried out by the V.DURGA DEVI (Reg.No. P19ZO006) under my supervision.

[Handwritten Signature]
24/04/2021

Head of the Department

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Research Guide
(Dr. G.PRIYA)

Examiners



Dr.K.BHAVANI, M.Sc., M.Phil., B.Ed., Ph.D.,

Lecturer in Zoology,

Government College for Women (Autonomous),

Kumbakonam - 612 001.



CERTIFICATE

This is to certify that the dissertation entitled **EFFECT OF ZNO/SIO₂ NANOCOMPOSITE AGAINST AEDES AEGYPTI MOSQUITO VECTOR** Submitted by in partial fulfilment of the requirement for the degree of Master of Science in Zoology during the period of 2020-2021 to the Government collage for Women (Autonomous), Kumbakoanam affiliated to the Bharathidasan University, Thiruchirappalli is a bonafide record of the work carried out by the **Miss. J.JOHNMECIYA (Reg.No.P19ZO009)** under my supervision and guidance.

Dr. K. Bhavani
19/04/2021

Head of the Department

Ms. J. Johnmeciya
19/04/2021
Signature of the Guide

April 2021.

Examiners:

1.

2. *Ms. J. Johnmeciya*



Dr.K.BHAVANI, M.Sc., M.Phil., B.Ed., Ph.D.,

Lecturer in Zoology,

Government College for Women (Autonomous),

Kumbakonam – 612 001.



CERTIFICATE

This is to certify that the dissertation entitled **STUDIES ON DECOLORISATION OF WASTE WATER USING OCIMUM TENUIFLORUM AND HEMIDESMUS INDICUS ACTIVATED CARBON** Submitted by in partial fulfilment of the requirement for the degree of Master of Science in Zoology during the period of 2020-2021 to the Government collage for Women (Autonomous), Kumbakoanam affiliated to the Bharathidasan University, Thiruchirappalli is a bonafide record of the work carried out by the **Miss. J.JOHN STEPHINA (Reg.No.P19ZO010)** under my supervision and guidance.

J. John Stephina
19/04/2021

Head of the Department

LCBL : 19/04/2021

Signature of the Guide



Examiners:

1.

2. *LCBL*

Dr. G.PRIYA, M.Sc., M.Phil., Ph.D.,

Guest Lecturer,

PG& Research Department of Zoology,

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Mobile: 9487882215,

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CERTIFICATE

This is to certify that the dissertation “Amphibians abundance in water bodies of Thiruchirai village, Thanjavur district, Tamil Nadu.” submitted in fulfilment of the requirements for the degree of Master of science in Zoology during the period of 2020-2021 to the Government College for women (Autonomous), Kumbakonam. Affiliated to the Bharathidasan University, Thiruchirappali is a bonafide record work carried out by the D.NITHYA (Reg.No.P19ZO012) under my supervision.

[Handwritten Signature]
23/04/2021

Head of the Department

[Handwritten Signature]
Research Guide
(Dr. G. PRIYA)

Examiners



Dr. M. DEIVANAYAKI, M.Sc., M.Phil., Ph.D.,
Lecturer in Zoology,
Government College for Women (Autonomous),
Kumbakonam – 612 001.



CERTIFICATE

This is to certify that the project work was done under my guidance and dissertation entitled **“EFFECT OF DIFFERENT TEA POWDER WASTE MEDIA ON THE GROWTH AND COCOON PRODUCTIONS OF *EISENIA FETIDA*”** Submitted by **Miss. B.SAVITHIRI (Reg.No.P1ZO015)** In partial fulfilment of the requirements of the M.Sc., Degree Course for the Academic period 2020 – 2021 in the subject of Zoology is the original work of the candidate.

M. Deivanayagi
19/04/2021

Signature of the HOD

M. Deivanayagi
19/04/21

Signature of the Guide

Examiner

1.

2. *M. Deivanayagi*



Dr.A.V.KAVITHA., M.Sc., M.Phil., Ph.D.,
Assistant professor in Zoology,
Government College for Women (Autonomous),
Kumbakonam – 612 001.



CERTIFICATE

Certified that this project in **EFFECT OF MERCURIC CHLORIDE ON BLOOD COMPONENTS OF FRESH WATER FISH LABEO ROHITA (HAM.)** is a bonafied record of work done by a **Miss. R. SENTHOORIYA (Reg.No.P19ZO016)** under my supervision and submitted to Bharathidasan University in partial fulfillment of the requirements for the award of the Degree of Master of Science in Zoology.

[Handwritten Signature]
23/04/2021

Signature of the Head of the Department

[Handwritten Signature]
22/04/2021

Signature of the Guide

Examiners:

- [Handwritten Signature]*
- [Handwritten Signature]*



Dr.K.BHAVANI., M.Sc., M.Phil., B.Ed., Ph.D.,

Lecturer in Zoology,

Government College for Women (Autonomous),

Kumbakonam – 612 001.



CERTIFICATE

This is to certify that the dissertation entitled **“STUDIES ON THE GREEN SYNTHESIS OF Mg DOPED ZnS NANOPARTICLE ON FRESH WATER FISH *OREOCHROMIS MOSSAMBICUS*”** Submitted by in partial fulfilment of the requirement for the degree of Master of Science in Zoology during the period of 2020-2021 to the Government collage for Women (Autonomous), Kumbakoanam affiliated to the Bharathidasan University, Thiruchirappalli is a bonafide record of the work carried out by the **Miss.R. SINDHUJA (Reg.No.P19ZO017)** under my supervision and guidance.

Dr. K. Bhavani
19/04/2021

Head of the Department

U. S. L. 19/04/2021
Signature of the Guide

Examiners:

- 1.
2. *U. S. L.*



Dr. M. DEIVANAYAKI, M.Sc., M.Phil., Ph.D.,

Lecturer in Zoology,

Government College for Women (Autonomous),

Kumbakonam – 612 001.



CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **“EFFECT OF DIFFERENT MANGIFERA INDICA LEAVES MEDIA ON THE GROWTH AND COCOON PRODUCTION OF EUDRILUS EUGENIAE”** Submitted by **Miss. S.VARSHA(Reg.No.P19ZO020)** in partial fulfillment of the requirements of the M.Sc., Degree Course for the academic period 2020-2021 in the subject of Zoology is the original work of the candidate.

M. Deivanayagi
24/04/2021

Signature of the HOD

M. Deivanayagi
19/4/21

Signature of the Guide



Examiner

1.

2. *M. Deivanayagi*

Dr. V. KAVITHA., M.Sc., M.Phil., Ph.D.,
Assistant Professor of Zoology,
Government College for Women (Autonomous),
Kumbakonam – 612 001.



CERTIFICATE

This is to certify that the project work was done under my guidance and dissertation entitled **“TOXIC EFFECT OF INSECTICIDE, PROFENOFOS ON THE BIOMASS OF AN INDIAN EARTHWORM LAMPITO MAURITII (KINBERG) (Annelida : Oligochaeta)”** Submitted by **Miss. S.YUVARANI, (Reg.No.P19ZO021)** In partial fulfilment of the requirements of the M.Sc., Degree Course for the Academic period 2020 – 2021 in the subject of Zoology is the original work of the candidate.

[Handwritten Signature]
22/04/2021

Signature of the HOD

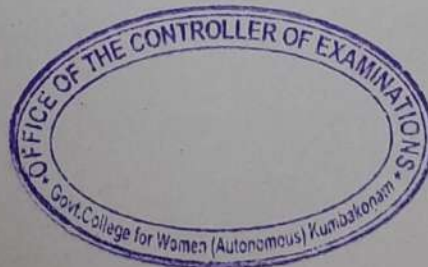
[Handwritten Signature]
22/04/2021

Signature of the Guide
Dr. V. KAVITHA, M.Sc., M.Phil., Ph.D.
Assistant Professor,
Department of Zoology,
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Examiner

1. *[Handwritten Signature]*
22.4.21

2. *[Handwritten Signature]*
22.04.21



Dr. G. PRIYA M.Sc., M.Phil., PGDBL., Ph.D.,
Guest lecturer ;
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CERTIFICATE

This is to certify that the dissertation entitled, "COMPARATIVE STUDY ON BIRDS ABUNDANCE OF VARIOUS ECOSYSTEM" submitted by Miss. R. AKILA (Reg. No. P20ZO001) in partial fulfillment of the requirements for the award of degree of Master of Science in Zoology during the period of 2021-2022 was done under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

J. Priya
03.06.22

RESEARCH GUIDE

Examiners

1. *Chandrasekhar* 10/6/2022

2. *J. Priya* 10.6.22

Dr. G. Priya
05/06/22

HEAD OF THE DEPARTMENT

வினாயகியல் துறைத்தலைவர்
அரசினா மகளிர் கல்லூரி (தன்னாட்சி)
கும்பகோணம்-612 001.



Dr. M. GOVINDARAJAN,
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Department of Zoology,
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Tamil Nadu, India.
Email: drgovind1979@gmail.com
Cell: 9585265999



Certificate

This is to certify that the dissertation entitled, "LARVICIDAL EFFECTS OF CALENDULA OFFICINALIS (ASTERACEAE) LEAF EXTRACTS ON THE MALARIA VECTOR ANOPHELES STEPHENSI (DIPTERA: CULICIDAE)" submitted by Miss. S.ANNAPOORANI (Reg. No. P20ZO002) in partial fulfillment of the requirements for the award of degree of Master of Science in Zoology during the period of 2021-2022 under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

Dr. M. Govindarajan
03/06/22

Signature of the HOD

வினாயகியல் துறைத்தலைவர்
அரசினா மகளிர் கல்லூரி (தன்னாங்க)
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Dr. M. Govindarajan
26-05-22

Signature of the Guide

Dr.M.GOVINDARAJAN,
M.Sc., M.Phil., Ph.D.
Assistant Professor of Zoology
Government College for Women (A),
Kumbakonam-612001,
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Submitted for the via-voce examination held on 10/6/2022

Dr. M. Govindarajan
10/6/22

Internal Examiner

Dr.M.GOVINDARAJAN,
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Dr. N. Chandrakala
10/6/2022

External Examiner

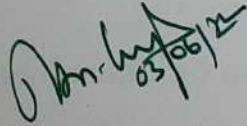
N. CHANDRAKALA, M.Sc., B.Ed., M.Phil., Ph.D.
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Thanjavur - 613 007.

Dr. M. DEIVANAYAKI, M.Sc., M.Phil., Ph.D.,
Lecturer in Zoology,
Government College for Women (Autonomous),
Kumbakonam – 612 001.



CERTIFICATE

This is to certify that the project work was done under my guidance and dissertation entitled **“A STUDY ON THE GROWTH AND COCOON PRODUCTION OF EUDRILUS EUGENIAE CULTURED IN DIFFERENT THESPESIA POPULNEA LEAVES WASTE MEDIA ”** Submitted by **Miss. K. ATCHAYA (Reg.No.P20ZO003)** In partial fulfilment of the requirements of the M.Sc., Degree Course for the Academic period 2021–2022 in the subject of Zoology is the original work of the candidate.

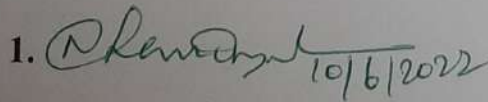

03/06/22

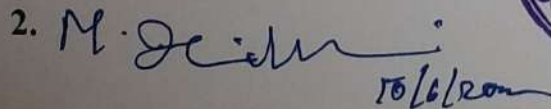
Signature of the HOD

சிரசினா மகளிர் கல்லூரி (தன்னாட்சி)
கும்பகோணம்-612 001,
Examiner


03/06/22

Signature of the Guide

1. 
10/6/2022

2. 
10/6/2022





GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
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DR. S. VENKATALAKASHMI M.Sc., M.Phil., Ph.D.,
ASSOCIATE PROFESSOR
PG & RESEARCH DEPARTMENT OF ZOOLOGY

03.06.22 Date:

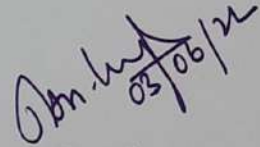
CERTIFICATE

This is to certify that the project was done under my guidance and the dissertation entitled 'PREVALENCE OF DIABETIC MELLITUS IN KODAVASAL TOWN AND ANTIDIABETIC EFFECT OF WHITE FLOWERS OF *CATHARANTHUS ROSEUS* THROUGH TRADITIONAL METHOD OF DECOCTION CONSUMPTION' submitted by S. DIVYAJOTHI (Reg. No: P20ZO004) in partial fulfillment of the requirement of the M.Sc., degree course for the Academic Period 2021– 2022 in the Subject Zoology is a critical study by the candidate.


03/06/22

Signature

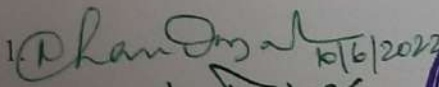
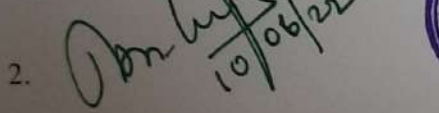
of the Head of the Department
அறிவியல் துறைமுகத்தின் தலைவர்
சுமபகோணம்-612 001.
Examiner


03/06/22

Signature

of the Research Guide

Dr.S.Venkatalakshmi.M.Sc.,M.Phil.,Ph.D.
Head & Associate Professor in Zoology
Government College For Woman (A)
Kumbakonam-612001.

1. 
10/6/2022
2. 
10/06/22



Dr. D.SOUMADY, Ph.D.,
Assistant professor in Zoology,
Government College for Women (A), Kumbakonam - 612001.



CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **A COMPARATIVE STUDY ON POPULATION DENSITY OF BLACK KITE (*MILVUS MIGRANS*) AND BRAHMINY KITE (*HALLASTUR INDUS*) IN DIFFERENT HABITAT AT TAMIL NADU, INDIA** Submitted by **R.GUNAVATHI (Reg.No.P20ZO005)** in partial fulfillment of the requirements of the M.Sc., Degree Course for the academic period 2021-2022 in the subject of Zoology is the original work of the candidate.

[Handwritten Signature]
05/06/22

Signature of the HOD

கிளைத்தலைவர்
தமிழக அரசின் கல்வியியல் துறை
கும்பகோணம்-612 001.

Examiner

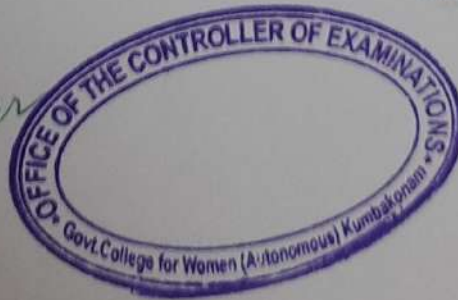
[Handwritten Signature]
04.06.22

Signature of the Guide

Dr. Mrs. D. SOUMADY
M.Sc., M.Phil., Ph.D.,
Assistant Professor in Zoology
Govt. College for Women (Autonomous)
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1. *[Handwritten Signature]*
18/6/2022

2. *[Handwritten Signature]*
10.06.2022



DR. K. BHAVANI M.Sc., M.Phil., B.Ed., Ph.D.,
Assistant Professor of Zoology,
Government College for Women (A)
Kumbakonam- 612 001.



CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **“BIOSYNTHESIS AND CHARACTERIZATION OF IRON OXIDE NANOPARTICLE USING HELIANTHUS ANNUUS SEEDS AND ANALYSIS OF THEIR ANTIFUNGAL ACTIVITY”** submitted by Miss N. HARIPRIYA (Reg. No. P20ZO006) in partial fulfillment of the requirements for the M.Sc., Degree course for the academic period 2021-2022 in the subject of Zoology is the original work of the candidate.

Signature of the HOD

வினங்கியல் துறைத்தலைவர்
அரசினா மகளிர் கல்லூரி (குன்னாட்சி)
கும்பகோணம்-612 001.

Signature of the Guide

Dr. K. BHAVANI
ASSISTANT PROFESSOR
DEPT. OF ZOOLOGY
GOVT. COLLEGE FOR WOMEN (A)
KUMBakonam

Examiner

1. [Signature] 10/6/2022
2. [Signature] 10/06/22



Dr. R. Balasubramanian, M.Sc., M.Phil., Ph.D.,
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Mobile: 9487882215,
E. mail: balaram_r2@rediffmail.com.



CERTIFICATE

This is to certify that the dissertation **STUDIES ON LENGTH WEIGHT RELATIONSHIP OF CRAB, *PORTUNUS SANGUINOLENTUS* (HERBST, 1783), IN NAGAPATTINAM COASTAL WATERS, SOUTHEAST COST OF INDIA** submitted in fulfilment of the requirements for the degree of Master of Science in Zoology during the period of Aug. 2021-Mar. 2022 to the Government College for Women (Autonomous), Kumbakonam. Affiliated to the Bharathidasan University, Thiruchirappali is a bonafide record work carried out by the **K. JASMINE BEGAM (Reg. No: P20ZO007)** under my supervision.

Dr. R. Balasubramanian
03/06/22

Head of the Department

மீனப்பியல் துறைத்தலைவர்
அரசினர் மகளிர் கல்லூரி (தன்னாட்சி)
கும்பகோணம்-612 001.

Examiners

1. *Chandrasekhar* 10/06/2022
2. *R. Balasubramanian* 10/06/2022

R. Balasubramanian
Research Guide



Dr. R. Balasubramanian, M.Sc., M.Phil., Ph.D.,
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Mobile: 9487882215,
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CERTIFICATE

This is to certify that the dissertation **STUDIES ON LENGTH WEIGHT RELATIONSHIP OF FISH, *SILLAGO SIHAMA* (FORSSKAL, 1775), IN NAGAPATTINAM COASTAL WATERS, SOUTHEAST COAST OF INDIA** Submitted in fulfillment of the requirements for the degree of Master of Science in Zoology during the period of Aug. 2021-Mar. 2022 to the Government College for Women (Autonomous), Kumbakonam. Affiliated to the Bharathidasan University, Thiruchirappali is a bonafide record work carried out by **T.KEERTHI**, (Reg. No: **P20ZO008**) under my supervision.

Am. Subramanian
05/06/2022

Head of the Department

R. Baby
04/06/2022
Research Guide

வினாத்தாள் துறைத்தலைவர்
சிரச்சினா மகளிர் கல்லூரி (தன்னாட்சி)
கும்பகோணம்-612 001.

Examiners



- Chandrasekaran*
05/06/2022
- R. Baby*
04/06/2022

DR . A. V. KAVITHA., M.Sc., M.Phil., Ph.D.,

Assistant Professor of Zoology,

Government College for Women (A.)

Kumbakonam- 612 001.



CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled "**ROLE OF LEAF EXTRACT OF *CARRICA PAPAYA* (LINN.) AGAINST MERCURIC CHLORIDE INDUCED NEPHROTOXICITY IN FRESH WATER FISH LABEO ROHITA (HAMILTON)**" submitted by Miss R.KIRUTHIGA (Reg.No.P20ZO009) in partial fulfilment of the requirements for the M.Sc., Degree course for the academic period 2021-2022 in the subject of Zoology is the original work of the candidate.

[Handwritten Signature]
05/06/2022

Signature of the Head of the Department

மாண்புமிகு துறைத்துறைகள்
அரசினா மகளிர் கல்வாணி (தன்னாட்சி)
குடகுதாண்டி-612 001.

Examiners

1. *[Handwritten Signature]* 10/6/2022
2. *[Handwritten Signature]* 10/6/2022

[Handwritten Signature]
01/06/2022

Signature of the Guide

Dr. Mrs. A.V. KAVITHA, M.Sc., M.Phil., Ph.D.
Assistant Professor in Zoology
Govt. College for Women (Autonomous)
KUMBAKONAM- 612 001.



DR. K. BHAVANI M.Sc., M.Phil., B.Ed., Ph.D.,
Assistant Professor of Zoology,
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Kumbakonam- 612 001.



CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **HELIANTHUS ANNUUS SEEDS EXTRACT ASSISTED BIOSYNTHESIS OF IRON NANOPARTICLES - CHARACTERISATION AND ANTIBACTERIAL STUDY** submitted by Miss **K. LAVANYA (Reg. No. P20ZO010)** in partial fulfillment of the requirements for the M.Sc., Degree course for the academic period 2021-2022 in the subject of Zoology is the original work of the candidate.

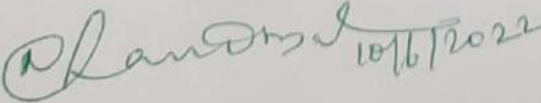
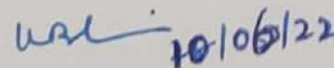
Signature of the HOD

வினாயக்யல் துறைத்தலைவர்
அரசினா மகளிர் கல்லூரி (தன்னாட்சி)
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Signature of the Guide

Dr. K. BHAVANI
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Examiner

1.  10/6/2022
2.  10/06/22



Dr. M. GOVINDARAJAN,
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Tamil Nadu, India.
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Cell: 9585265999



Certificate

This is to certify that the dissertation entitled, "Efficacy of *Matricaria chamomilla* (Asteraceae) essential oil against filariasis vector *Culex quinquefasciatus* (Diptera: Culicidae)" submitted by Ms. K.MONIKA (Reg. No. P20ZO011) in partial fulfilment of the requirements for the award of degree of Master of Science in Zoology during the period of 2020-2021 under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

Dr. M. Govindarajan
23/05/22

Signature of the HOD

வினாயகம் சுவாமிநாதன்
அரசினர் மகளிர் கல்லூரி (தன்னாட்சி)
கும்பகோணம்-612 001.

M. Govindarajan
26.05.22

Signature of the Guide

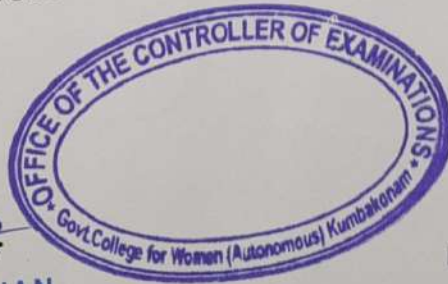
Dr.M.GOVINDARAJAN,
M.Sc., M.Phil., Ph.D.,
Assistant Professor of Zoology,
Government College for Women (A),
Kumbakonam-612001,
Tamilnadu,India.

Submitted for the viva-voce examination held on 10.06.2022

M. Govindarajan
10/6/22

Internal Examiner

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M.Sc., M.Phil., Ph.D.,
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Dr. N. Chandrakala
10/6/2022

External Examiner

Dr. N. CHANDRAKALA, M.Sc., B.Ed., M.Phil., Ph.D.,
Assistant Professor & Head,
PG & Research Department of Zoology,
K.N. Govt. Arts College(W) Autonomous,
Thanjavur - 613 007.

Dr. V. KAVITHA., M.Sc., M.Phil., Ph.D.,
Assistant Professor of Zoology,
Government College for Women (A)
Kumbakonam- 612 001.



CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **“TOXIC EFFECT OF THIACTOPRID ON DIGESTIVE ENZYMES OF LAMPITO MAURITHI (KINBERG) GUT AND NUTRITIVE VALUE OF VERMICOMPOST (ANNELIDA : OLIGOCHETA)”** submitted by Miss J. MONISHA (Reg. No. P20ZO012) in partial fulfillment of the requirements for the M.Sc., Degree course for the academic period 2021-2022 in the subject of Zoology is the original work of the candidate.

Dr. V. Kavitha
03/06/22

Signature of the HOD

வினங்கியல் துறைத்தலைவர்
அரசினா மகளிர் கல்லூரி (தன்னாட்சி)
கும்பகோணம்-612 001.

V. I. The
02.06.22

Signature of the Guide

Examiner

- Dr. Kavitha* 10/6/2022
- V. I. The* 10/6/2022

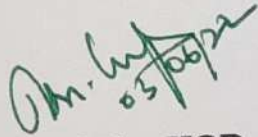


Dr. M. GOVINDARAJAN,
M.Sc., M.Phil., Ph.D.,
Assistant Professor,
Department of Zoology,
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Kumbakonam - 612001,
Tamil Nadu, India.
Email: drgovind1979@gmail.com
Cell: 9585265999



Certificate

This is to certify that the dissertation entitled, "**The utilization of *Asystasia gangetica* in green synthesis of silver nanoparticles to combat the dengue vector *Aedes albopictus***" submitted by Miss. T.MONISHA (Reg. No. P20ZO013) in partial fulfilment of the requirements for the award of degree of Master of Science in Zoology during the period of 2021-2022 under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.



Signature of the HOD

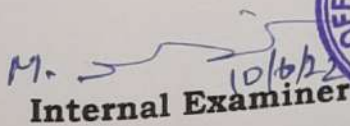
வினங்கியல் துறைத்தலைவர்
சிரஷினா மகளிர் கல்லூரி (தன்னாட்சி)
கும்பகோணம்-612 001.

M.  26-05-22

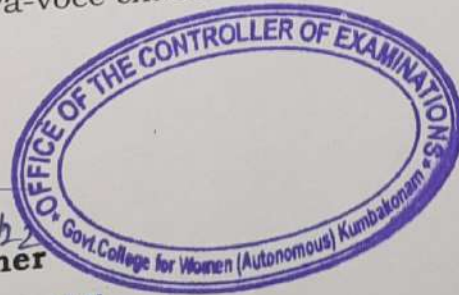
Signature of the Guide

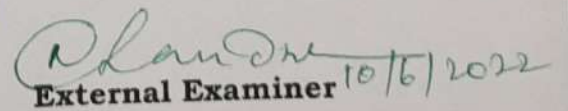
Dr.M.GOVINDARAJAN,
M.Sc., M.Phil., Ph.D.,
Assistant Professor of Zoology,
Government College for Women (A),
Kumbakonam-612001,
Tamilnadu,India.

Submitted for the viva-voce examination held on .10.06.2022

M.  10/6/22
Internal Examiner

Dr.M.GOVINDARAJAN,
M.Sc., M.Phil., Ph.D.,
Assistant Professor of Zoology,
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External Examiner 10/6/2022

Dr. G. PRIYA M.Sc., M.Phil., PGDBI., Ph.D.,
Guest Faculty,
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Kumbakonam-612001.
E mail : jaspriya48@gmail.com
Cell : +91 8248666103



CERTIFICATE

This is to certify that the dissertation entitled, "BACTERIAL DIVERSITY IN THE GUT OF EARTHWORMS IN DISSIMILAR KINDS OF SOIL" submitted by Miss. S. NARMATHA (Reg. No. P20ZO014) in partial fulfillment of the requirements for the award of degree of Master of Science in Zoology during the period of 2021-2022 was done under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

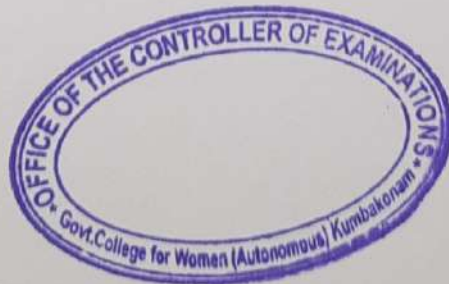
J. Priya 03.06.22
RESEARCH GUIDE

Examiners

- Chandrashekar* 10/6/2022
- J. Priya* 10.6.22

S. Narmatha 03/06/22
HEAD OF THE DEPARTMENT

வினாயகியல் துறைத் தலைவர்
அரசினர் மகளிர் கல்விப் பல்கலைக்கழகம் (அ.க.ப.க.)
கும்பகோணம்



Dr. S. Venkatalakshi, M.Sc., M.Phil., Ph.D.,
Head & Associate Professor,

PG & Research Department of Zoology,
Government College for Women (A),
Kumbakonam - 612001.
Tamil Nadu,
India.



CERTIFICATE

This is to certify that the dissertation entitled,
**“HEMATOLOGICAL STUDIES OF THE FRESHWATER
ZOOPLANKTON MACROCYCLOPS EDAX”** submitted by Miss. P.
PAVITHRA (Reg.No.P20ZO015) in partial fulfillment of the
requirements for the award of degree of Master of science in
zoology during the period of 2021-2022 was done under my
guidance and the dissertation has previously formed the basis for
the award of any degree, diploma, fellowship or similar title to any
other University.

Dr. S. Venkatalakshmi
05/06/22

Signature of the Guide

Dr. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.
Head & Associate Professor in Zoology
Government College For Woman (A)
Kumbakonam-612001.

Dr. S. Venkatalakshmi
05/06/22

Signature of the HOD

கிளாப்பிடல் துறைத்துலைவர்
புரட்சி மகளிர் கல்லூரி (குன்னாட்சி)
கும்பகோணம்-612 001.

Examiners

1. *Chandrasekaran*
10/6/2022

2. *Dr. S. Venkatalakshmi*
10/06/22





GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
KUMBAKONAM – 612 001

DR. S. VENKATALAKSHMI M.Sc., M.Phil., Ph.D.,
ASSOCIATE PROFESSOR
PG & RESEARCH DEPARTMENT OF ZOOLOGY

03-06-22 Date:

CERTIFICATE

This is to certify that the project was done under my guidance and the dissertation entitled 'PREVALENCE OF DIABETIC MELLITUS IN KOTHANALLUR TOWN AND ANTIDIABETIC EFFECT OF JAMUN (SYZYGIVM CUMINI) SEED POWDER THROUGH TRADITIONAL METHOD' submitted by K. PUJITHA (Reg. No: P20ZO016) in partial fulfillment of the requirement of the M.Sc., degree course for the Academic Period 2021– 2022 in the Subject Zoology is a critical study by the candidate.

Dr. S. Venkatalakshmi
05/06/22

Signature

of the Head of the Department
அரசினா மகளிர் கல்லூரி (குன்னாட்சி)
கும்பகோணம்-612 001.
Examiner

Dr. S. Venkatalakshmi
05/06/22

Signature

of the Research Guide

Dr.S.Venkatalakshmi.M.Sc.,M.Phil.,Ph.D.
Head & Associate Professor in Zoology
Government College For Woman (A)
Kumbakonam-612001.

1. *Chandrasekhar*
10/06/2022

2. *Dr. S. Venkatalakshmi*
10/06/2022



Dr. D.SOUMADY, Ph.D.,

Assistant professor in Zoology,

Government College for Women (A), Kumbakonam-612001.



CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **ANTIMICROBIAL PROPERTIES OF CHANNA STRIATUS MUCUS STABILIZED IRON OXIDE NANOPARTICLES AGAINST FRESH WATER PATHOGENS** Submitted by **R.RAJALAKSHMI** (Reg.No.P20ZO017) in partial fulfillment of the requirements of the M.Sc., Degree Course for the academic period 2021-2022 in the subject of Zoology is the original work of the candidate.

Signature of the HOD

வினாயகியல் துறைத்தலைவர்
சென்னை மாணாபாளர் கல்வி (ஆன்ணயல்)
கும்பகோணம்-612 001.

Examiner

Signature of the Guide

Dr. Mrs. D. SOUMADY
M.Sc., M.Phil., Ph.D.,
Assistant Professor in Zoology
Govt. College for Women (Autonomous)
Kumbakonam - 612 001.

1. @hanasud 10/6/2022

2. @hanasud 10.06.2022




Dr. M. DEIVANAYAKI., M.Sc., M.Phil., Ph.D.,
Lecturer in Zoology,
Government College for Women (Autonomous),
Kumbakonam – 612 001.

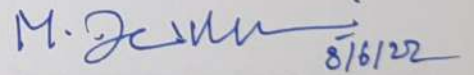


CERTIFICATE

This is to certify that the project work was done under my guidance and dissertation entitled "**A STUDY ON THE GROWTH AND COCOON PRODUCTION OF EISENIA FETIDA CULTURED IN DIFFERENT BANANA LEAVES WASTE MEDIA** " Submitted by **Miss.D. RAJESHWARI (Reg.No.P20ZO018)** In partial fulfilment of the requirements of the M.Sc., Degree Course for the Academic period 2021–2022 in the subject of Zoology is the original work of the candidate.


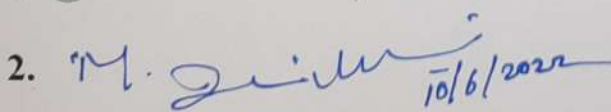

கல்வியியல் துறைத்தலைவர்
தமிழ்நாடு முகவரி கல்வியியல் துறைத்தலைவர் (தொண்டி)
கல்வியியல் துறைத்தலைவர் - 612 001.

Signature of the HOD


8/6/22

Signature of the Guide

Examiner

1.  10/6/2022
2.  10/6/2022



Dr. V. KAVITHA., M.Sc., M.Phil., Ph.D.,
Assistant Professor of Zoology,
Government College for Women (A)
Kumbakonam- 612 001.



CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **“VERMICOMPOST OF BANANA LEAVES USING AN INDIAN EARTHWORM *LAMPITO MARURITHI* (KINBERG) (ANNELIDA: OLIGOCHAETA)”** submitted by Miss **R.R. RAMYA** (Reg. No. P20ZO019) in partial fulfillment of the requirements for the M.Sc., Degree course for the academic period 2021-2022 in the subject of Zoology is the original work of the candidate.

Dr. V. Kavitha
05/06/22

Signature of the HOD

வினாயகியல் துறைத்தலைவர்
அரசினா மகளிர் கல்லூரி (தன்னாட்சி)
கும்பகோணம்-612 001.

V. I. The
02.06.22

Signature of the Guide

Examiner

- Dr. Kavitha* 10/6/2022
- V. I. The* 10/6/2022



Dr. D.SOUMADY, Ph.D.,
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Government College for Women (A),
Kumbakonam-612001.



CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **ANTIMICROBIAL ACTIVITY OF PILA GLOBOSA MUCUS STABILIZED IRON OXIDE NANOPARTICLES AGAINST FRESH WATER PATHOGENS** Submitted by **R.SHANMUGAPRIYA** (Reg.No.P20ZO020) in partial fulfillment of the requirements of the M.Sc., Degree Course for the academic period 2021-2022 in the subject of Zoology is the original work of the candidate.

[Handwritten Signature]
05/06/22

Signature of the HOD

வினாயகியல் துறைத்தலைவர்
அரசினா மகளிர் கல்லூரி (தன்னாட்சி)
கும்பகோணம்-612 001.

Examiner

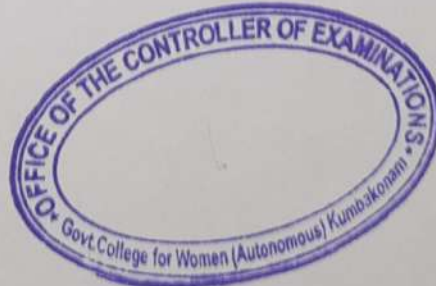
1. *[Handwritten Signature]* 10/6/2022

2. *[Handwritten Signature]*
10.06.22

[Handwritten Signature]
04.06.22

Signature of the Guide

Dr. Mrs. D. SOUMADY
M.Sc., M.Phil., Ph.D.,
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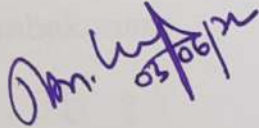
Dr. S. Venkatalakshi, M.Sc., M.Phil., Ph.D.,
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Kumbakonam - 612001.
Tamil Nadu,
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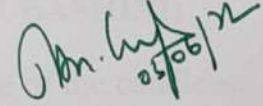
CERTIFICATE

This is to certify that the dissertation entitled,
“HEMATOLOGICAL STUDIES OF THE FRESHWATER
ZOOPLANKTON *THERMOCYCLOPS HYALINUS*” submitted by
Miss. K. SUBASHINI (Reg.No.P20ZO021) in partial fulfillment of the
requirements for the award of degree of Master of science in
zoology during the period of 2021-2022 was done under my
guidance and the dissertation has previously formed the basis for
the award of any degree, diploma, fellowship or similar title to any
other University.


05/06/22

Signature of the Guide

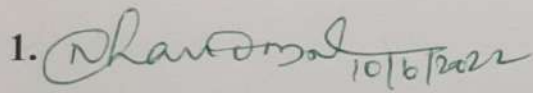
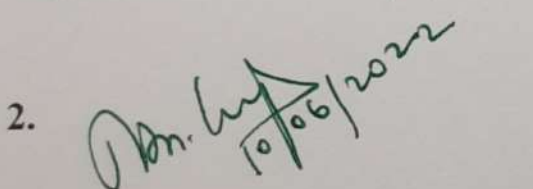
வினங்கியல் துறைத்தலைவர்
செரசினாமகனிர் கல்லூரி (தன்னாட்சி)
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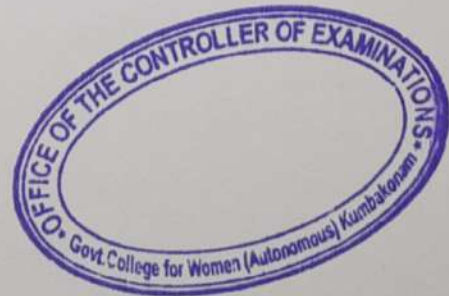

05/06/22

Signature of the HOD

வினங்கியல் துறைத்தலைவர்
செரசினாமகனிர் கல்லூரி (தன்னாட்சி)
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Examiners

1. 
10/06/2022
2. 
10/06/2022



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CERTIFICATE

This is to certify that the dissertation **STUDIES ON LENGTH WEIGHT RELATIONSHIP OF WHITE SHRIMP, *PENAEUS INDICUS* (H. MILNE EDWARD, 1837), IN NAGAPATTINAM COASTAL WATERS, SOUTHEAST COAST OF INDIA**

Submitted in fulfillment of the requirements for the degree of Master of Science in Zoology during the period of Aug. 2021-Mar. 2022 to the Government College for Women (Autonomous), Kumbakonam. Affiliated to the Bharathidasan University, Thiruchirappali is a bonafide record work carried out by the **S. SUVETHA (Reg. No: P20ZO022)** under my supervision.

Dr. R. Balasubramanian
03/06/22

R. Babu
02/06/2022
Research Guide

Head of the Department

வினாயகியல் துறைத்தலைவர்
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Examiners

1. *Chandrasekhar* 10/6/2022

2. *R. Babu*
10/06/2022



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CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled "**COMPARITIVE STUDY OF BIOACTIVITY OF TRIGONELLA FORNUM AND HELIANTHUS ANNUUS SPROUTS GROWN BY AQUAPONICS TECHNOLOGY**" submitted by **Miss V.VANISRI (Reg. No. P20ZO023)** in partial fulfillment of the requirements for the M.Sc., Degree course for the academic period 2021-2022 in the subject of Zoology is the original work of the candidate.

[Handwritten Signature]
05/06/22

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விணங்கியல் துறைத்தலைவர்
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Examiner

- [Handwritten Signature]* 10/6/2022
- [Handwritten Signature]* 10/06/22

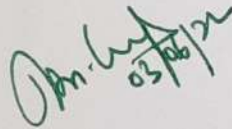


DR. V. KAVITHA., M.Sc., M.Phil., Ph.D.,
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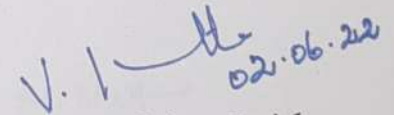
CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **“TOXICITY OF THIACLOPRID (INSECTICIDE) ON BIOMASS, BACTERIAL AND FUNGAL POPULATION OF AN INDIAN EARTHWORM, LAMPITO MAURITHI (KINBERG) (ANNELIDA : OLIGOCHETA)”** submitted by Miss **M.VINOTHINI (Reg. No. P20Z0024)** in partial fulfillment of the requirements for the M.Sc., Degree course for the academic period 2021-2022 in the subject of Zoology is the original work of the candidate.


03/06/22

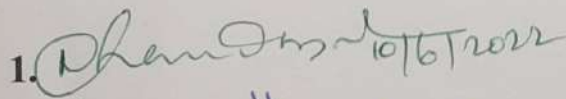
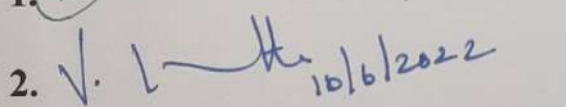
Signature of the HOD

வினங்கியல் துறைத்தலைவர்
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02.06.22

Signature of the Guide

Examiner

- 
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- 
10/6/2022



DR . A . V . KAVITHA., M.Sc., M.Phil., Ph.D.,
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CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled “ **INFLUENCE OF LEAF EXTRACT OF CARICA PAPAYA (LINN.) AGAINST MERCURIC CHLORIDE INDUCED TOXICITY IN LIVER TISSUE OF FRESH WATER FISH LABEO ROHITA (HAMILTON)**” submitted by Miss **S.VINOTHINI (Reg.No.P20ZO025)** in partial fulfilment of the requirements for the M.Sc., Degree course for the academic period 2021-2022 in the subject of Zoology is the original work of the candidate.

[Handwritten Signature]
03/06/22

Signature of the Head of the Department

வினாயகியல் துறைத்தலைவர்
சிரகிணா மகளிர் கல்லூரி (தன்னாட்சி)
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Examiners

1. *[Handwritten Signature]* 10/6/2022
2. A.V. Kettle 10/6/2022



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CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled "STUDY OF BIOMASS, ENZYMES ACTIVITY OF *LAMPITO MAURITII* KINBERG DURING VERMICOMPOSTING OF *COUROPITA GUIANESIS* USING LEAVES (ANNELIDA : OLIGOCHETA)" submitted by Miss K.AARTHY (Reg. No. P21ZO001) in partial fulfillment of the requirements for the M.Sc., Degree course for the academic period 2022-2023 in the subject of Zoology is the original work of the candidate.

[Handwritten Signature]
25/04/23

Signature of the HOD

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Examiner

1. *[Handwritten Signature]*
26/4/23

2. *[Handwritten Signature]*
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Dr. M. DEIVANAYAKI., M.Sc., M.Phil., Ph.D.,
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CERTIFICATE

This is to certify that the project work was done under my guidance and dissertation entitled “EFFECT OF DIFFERENT *TERMINALIA CATAPPA* LEAVES MEDIA ON THE GROWTH AND COCOON PRODUCTION OF *EUDRILUS EUGENIAE*” Submitted by Miss. B. ABINA (Reg.No.P21ZO002) In partial fulfilment of the requirements of the M.Sc., Degree Course for the Academic period 2022–2023 in the subject of Zoology is the original work of the candidate.

Dr. B. Venkatalakshmi
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Signature of the HOD

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M. Deivanayaki
25/04/2023

Signature of the Guide

Examiner

1. *[Signature]* 26/4/23
2. *M. Deivanayaki* 28/4/23



Dr. R. Balasubramanian, M.Sc., M.Phil., Ph.D.,
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Mobile: 9487882215,
E. mail: balaram_r2@rediffmail.com

CERTIFICATE

This is to certify that the dissertation "STUDIES ON FOOD AND FEEDING HABITS OF INDIAN MACKEREL, *Rastrelliger kanagurta* (CUVIER) 1816 AKKARAIPETTAI COASTAL WATERS, SOUTHEAST COAST OF India" Submitted in fulfillment of the requirements for the degree of Master of Science in Zoology during the period of Jul. 2022 - Mar. 2023 to the Government College for Women (Autonomous), Kumbakonam. Affiliated to the Bharathidasan University, Thiruchirappali is a bonafide record work carried out by the P.BANUMATHI (Reg. No.: P21ZO003) under my supervision.

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15/4/23

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[Handwritten signature]
25/4/2023
Research Guide

Examiners

1. *[Handwritten signature]* 26/4/23
2. *[Handwritten signature]* 26/4/2023



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Cell: 9585265999



Certificate

This is to certify that the dissertation entitled, "**BIOSYNTHESIS OF SILVER NANOPARTICLES USING DIGERA MURICATA AGAINST THE DENGUE VECTOR AEDES AEGYPTI**" submitted by Miss. S. BHARATHA PRIYA (Reg. No. P21ZO004) in partial fulfilment of the requirements for the award of degree of Master of Science in Zoology during the period of 2022 - 2023 under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

Dr. M. Govindarajan
25/4/23

Signature of the HOD

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H. S. S. S.
24/4/23

Signature of the Guide

Submitted for the viva-voce examination held on 26.04.2023

[Signature]
26/4/23
Internal Examiner



H. S. S. S.
26/4/23
External Examiner

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Certificate

This is to certify that the dissertation entitled, "THE COMPARATIVE BIOCHEMICAL ANALYSIS OF UNIFLORAL FARM HONEY OF HIBISCUS AND TULASI ORIGIN" submitted by Miss. V. DHARANI (Reg. No. P21ZO007) in partial fulfillment of the requirements for the award of degree of Master of Science in Zoology during the period of 2022 - 2023 under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

[Handwritten Signature]
25/04/23

Signature of the Guide

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25/04/23

Signature of the HOD

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Government College For Women (A)
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Examiners

[Handwritten Signature] 26/04/23
[Handwritten Signature] 26/04/23

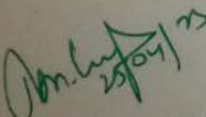


Submitted for the viva-voce examination held on 26.04.23

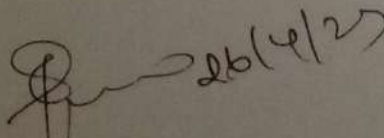
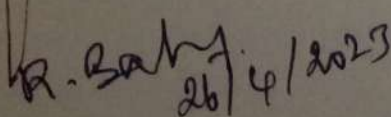
Dr. R. Balasubramanian, M.Sc., M.Phil., Ph.D.,
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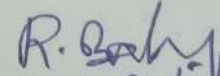
CERTIFICATE

This is to certify that the dissertation "STUDIES ON FOOD AND FEEDING HABITS OF RED SNAPPER *Lutjanus campechanus* (1860) IN AKKARAIPETTAI COASTAL WATERS, SOUTHEAST COAST OF INDIA TAMIL NADU" submitted in fulfillment of the requirements for the degree of Master of Science in Zoology during the period of Jul. 2022 to Mar. 2023 to the Government College for Women (Autonomous), Kumbakonam. Affiliated to the Bharathidasan University, Thiruchirappali is a bonafide record work carried out by the G. Gayathri (Reg. No.: P21ZO008) under my supervision.


Head of the Department
Dr. S. Venkatalakshmi M.Sc., M.Phil., Ph.D.
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Examiners

1.  26/4/23
2.  26/4/2023


Research Guide 25/4/2023



Dr. K. BHAVANI,
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Email id : sainisanth2016@gmail.com
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Certificate

This is to certify that the dissertation entitled, **"BIOSYNTHESIS OF SILVER NANOPARTICLES USING PUMPKIN SEEDS (CUCURBITA PEPO) EXTRACT ASSISTED ANTIBACTERIAL ACTIVITY AND CHARACTERIZATION"** submitted by Miss. S. KARPARATCHAMBIGAI (Reg. No. P21ZO009) in partial fulfilment of the requirements for the award of degree of Master of Science in Zoology during the period of 2022 - 2023 under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

Signature of the HOD

[Handwritten Signature]
D. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.

Head & Associate Professor in Zoology

Govt. College for Women (A)

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Examiner

1.

[Handwritten Signature] 26/4/23

2.

[Handwritten Signature] 26/4/23

[Handwritten Signature] 26/04/23
Signature of the Guide



Dr. K.BHAVANI,
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Certificate

This is to certify that the dissertation entitled, "BIOSYNTHESIS AND CHARACTERIZATION OF SILVER NANOPARTICLE USING CUCURBITA PEPO SEEDS AND ANALYSIS OF THEIR ANTIFUNGAL ACTIVITY" submitted by Miss. N.KARTHIKA (Reg. No. P21ZO010) in partial fulfilment of the requirements for the award of degree of Master of Science in Zoology during the period of 2022 - 2023 under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

Dr. S. Venkatalakshmi
25/04/23

Signature of the HOD

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WAL 26/04/23

Signature of the Guide

Submitted for the viva-voce examination held on 26.04.2023.

Examiner

- Dr. S. Venkatalakshmi*
- WAL* 26/4/23



Dr.A.V.KAVITHA., M.Sc., M.Phil., Ph.D.,

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CERTIFICATE

This is to certify that the project work was done under my guidance and dissertation entitled “ **EFFICACY OF EDTA AGAINST MERCURIC CHLORIDE INDUCED BEHAVIORAL CHANGES IN THE FRESH WATER FISH *LABEO ROHITA* (HAMILTON)** ” Submitted by Miss. **K.KOKILAVANI** (Reg.No.P21ZO013) in partial fulfilment of the requirements of the M.Sc., Degree Course for the academic period 2022–2023 in the subject of Zoology is the original work of the candidate.

Dr. S. Venkatalakshmi
25/04/23

Signature of the Head of the Department
Dr.S.Venkatalakshmi.M.Sc.,M.Phil.,Ph.D,
Head & Associate Professor in Zoology
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A.V. Kavittha
25/04/23
Signature of the Guide
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PG & Research Department of Zoology,
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Examiners

- [Signature]* 26/4/23
- A.V. Kavittha*
26/4/23



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CERTIFICATE

This is to certify that the project work was done under my guidance and dissertation entitled **“EVALUATION OF THE SELECTED PLANTS AND THEIR IMPACTS ON PEST CONTROL (*CALLOSOBRUCHUS MACULATUS*)”**, Submitted by **Miss. V.MAHESHWARI (Reg.No.P21ZO014)** in partial fulfilment of the requirements of the M.Sc., Degree Course for the academic period 2022–2023 in the subject of Zoology is the original work of the candidate.

[Handwritten Signature]
25/04/23

Signature of the Head of the Department

Dr.S Venkatalakshmi. M.Sc., M.Phil., Ph.D.
Head & Associate Professor in Zoology
Government College For Women (A)
Kumbakonam-612001.

[Handwritten Signature]
25/04/23

Signature of the Guide

Examiners

1. *[Handwritten Signature]* 26/4/23
2. *[Handwritten Signature]* 26/04/23



Dr. M. DEIVANAYAKI, M.Sc., M.Phil., Ph.D.,

Lecturer in Zoology,

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CERTIFICATE

This is to certify that the project work was done under my guidance and dissertation entitled "**CULTURE OF EPIGENIC EARTHWORM, *EISENIA FETIDA* UNDER BERMUDA GRASS WASTES AND EFFECTS OF BERMUDA GRASS VERMICOMPOST ON THE GROWTH OF LADYFINGER PLANT**" Submitted by Miss. N. NITHYA (Reg.No.P21ZO015) In partial fulfilment of the requirements of the M.Sc., Degree Course for the Academic period 2022-2023 in the subject of Zoology is the original work of the candidate.

Dr. Venkatalakshmi
25/04/23

Signature of the HOD

Dr. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.

Head & Associate Professor in Zoology

Government College For Women (A)

Kumbakonam-612001.

Examiner

M. Deivani
25/04/2023

Signature of the Guide

1. *[Signature]* 26/4/23

2. *M. Deivani*
26/4/23



Dr. G. Priya M. Sc., M. Phil., PGDBL., Ph. D.,
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CERTIFICATE

This is to certify that the project work was done under my guidance and dissertation entitled "**POLLEN AND BIOCHEMICAL ANALYSIS OF HONEY SAMPLES**" Submitted by **Miss. V. SATHYA (Reg.No.P21ZO016)** In partial fulfilment of the requirements of the M.Sc., Degree Course for the Academic period 2022-2023 in the subject of Zoology is the original work of the candidate.

Dr. S. Venkatalakshmi
25/04/23

Signature of the HOD

Dr. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.,
Head & Associate Professor in Zoology
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Examiner

J. Prithu
25-04-23

Signature of the Guide

1. *[Signature]* 26/4/23
2. *J. Prithu* 26-04-23

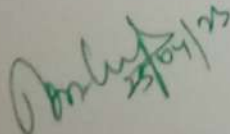


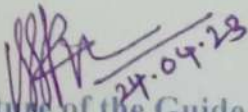
Dr.S.S. PADMAPRIYA., M.Sc., M.Phil., Ph.D.,
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Government College for Women (Autonomous),
Kumbakonam-621 001.



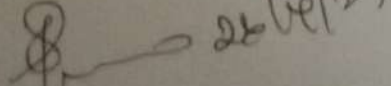
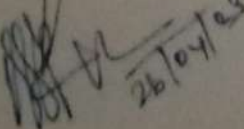
CERTIFICATE

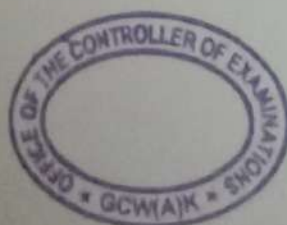
This is to certify that the project work was done under my guidance and dissertation entitled "EFFECTS OF THE SELECTED PLANT POWDERS FOR CONTROLLING STORED GRAIN PEST RICE WEEVIL (*SITOPHILUS ORYZAE*)" Submitted by Miss. R.SUBALAKSHMI (Reg.No.P21ZO019) in partial fulfilment of the requirements of the M.Sc., Degree Course for the academic period 2022–2023 in the subject of Zoology is the original work of the candidate.


Signature of the Head of the Department
Dr.S.Venkatalakshmi, M.Sc., M.Phil., Ph.D.
Head & Associate Professor in Zoology
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Signature of the Guide

Examiners

- 
26/04/23
- 
26/04/23



Dr.A.V.KAVITHA., M.Sc., M.Phil., Ph.D.,
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CERTIFICATE

This is to certify that the project work was done under my guidance and dissertation entitled "EFFECTIVENESS OF GLUTATHIONE AGAINST MERCURIC CHLORIDE INDUCED EFFECTS IN FRESH WATER FISH *LABEO ROHITA* (HAMILTON)" Submitted by Miss. K. SURYA (Reg. No. P21ZO020) in partial fulfilment of the requirements of the M.Sc., Degree Course for the academic period 2022-2023 in the subject of Zoology is the original work of the candidate.

Dr. S. Venkatalakshmi
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Certificate

This is to certify that the dissertation entitled "**Mosquito larvicidal efficacy of *Digera muricata* plant extracts against Zika virus vector *Aedes albopictus***" submitted by Miss. J. UMA (Reg. No. P21ZO021) in partial fulfillment of the requirements for the award of degree of Master of Science in Zoology during the period of 2022-2023 under my guidance and the dissertation has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to any other University.

Signature of the HOD

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Signature of the Guide

Submitted for the via-voce examination held on 26.04.2023

Internal Examiner



External Examiner

Dr. V. KAVITHA M.Sc., M.Phil., Ph.D.,
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Kumbakonam - 612 001



CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled **BIOMASS, MICROBIAL POPULATION AND NUTRIENT ANALYSIS OF VERMICOMPOSTING OF LEAF LITTERS BY USING INDIAN EARTHWORM *L. MAURITHI* (KINBERG) (ANNELIDA : OLIGOCHETA)** submitted by Miss A.VANITHA (Reg. No. P21ZO022) in partial fulfillment of the requirements for the M.Sc., Degree course for the academic period 2022-2023 in the subject of Zoology is the original work of the candidate.

[Handwritten Signature]

Signature of the HOD

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Examiner

1. *[Handwritten Signature]* 26/4/23

2. *[Handwritten Signature]* 26/4/23

