

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

Programme Name : B.Sc. Zoology

Sl. No.	Programme Code	Name of students undertaking project work/field work/internship	Project title page & Report /photograph of Field work	Completion Certificate
1	PWBSZO	AHIJA R V	CLICK HERE	
2	PWBSZO	AJANYA RAMAKRISHNAN	CLICK HERE	
3	PWBSZO	ANAGHA K K	CLICK HERE	
4	PWBSZO	ANAGHA R	CLICK HERE	
5	PWBSZO	ANASHAYA K	CLICK HERE	
6	PWBSZO	ANDREA DAIZ K	CLICK HERE	
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INTERNSHIPS/FIELD
WORK/PROJECT

Department of Zoology 2021-
22

Providence Women's College

Re-Accredited with A+ Grade by NAAC

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Office : 0495-2371696, 2372487
Resi : 0495-2371059
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Website : www.providencecollegecalicut.ac.in



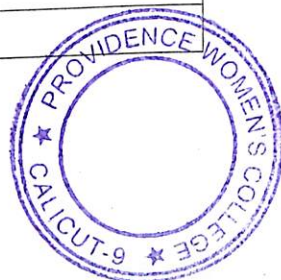
CARMEL HILL
MALAPARAMBA (P.O.)
CALICUT - 673 009

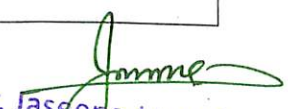
CERTIFICATE

This is to certify that the following students of III year B.Sc. Zoology completed their project/ fieldwork as a part of their curriculum during the academic year 2021-22

AHIJA R V
AJANYA RAMAKRISHNAN
ANAGHA K K
ANAGHA R
ANASHAYA K
ANDREA DAIZ K
ANJANA M
ANJANA P K
ANJITHA V
ARSHITHA P R
ARYA SAJIL
ASHLA N
ASMA SHIRIN K
ATHULYA K
AYSHA HANNA C K
FATHIMA HIBA
FIDA SHERIN K P
HARSHA K P
JILU JOSE

KEERTHANA SARATH
MARLIN THOMAS
MASHIDA MUSTHARY O P
MEGHNA P
NAJIHA THASNEEM N
NAMITHA METILDA ROZARIO
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NAVYA S
NEHILA PARVIN K P
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RESHMI M C
SHADHA FATHIMA
SHILPA T P
SNEHA M K
SNEHA V M
SONA SATHEESH K
SREFLAKSHMI A
T POOJA




Dr. Sr. Jaseera Joseph
Principal (PEN 470173)
Providence Women's College
Kozhikode - 673 009

DEPARTMENT OF ZOOLOGY

PROVIDENCE WOMEN'S COLLEGE, CALICUT.

DR.E.JULIE
ASSISTANT
PROFESSOR



Phone: Office: +91 49522372487
Mob : +91 6282446398
Carmel Hills, Malaparamba, P.O
Calicut- 673 009, Kerala, INDIA

Date: 10-5-2022

CERTIFICATE

This is to certify that the project titled 'ISOLATION AND IDENTIFICATION OF CELLULOLYTIC BACTERIA FROM THE GUT OF TERMITES' is an authentic record of the work carried out by the following students under my supervision and guidance in partial fulfillment of the requirements of the Degree of Bachelor Science in Zoology during the year 2021-2022 and that no part thereof has been presented before any other project.

SL.NO	NAME	REGISTER NUMBER
1	SREELAKSHMI.A	PWATSZO020
2	AJANYA RAMAKRISHNAN	PWATSZO021
3	ANAGHA K.K	PWATSZO022
4	ANASHAYA.K	PWATSZO023
5	ANDREA DAIZ.K	PWATSZO024
6	ARYA SAJIL	PWATSZO025
7	ASHLA. N	PWATSZO026
8	ASMA SHIRIN K	PWATSZO027
9	AYISHA HANNA. C.K	PWATSZO028

Examiners:

1.

Manjusha KT
4/2/22

Manjusha KT

2.

Smithi K
12/5/22

Smithi K

Dr. E. Julie
Dr. E. Julie
Assistant Professor,
Department of Zoology,
Providence Women's College
Calicut - 673 009



Dr. Anish Khan
Dr. Anish Khan
Ass. Professor & HOD
Department of Zoology
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Calicut, Kerala

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Dr. SANGEETHA G KAIMAL
Assistant Professor



Phone: Office : +91 4952372487
Mob : +91 9447476859
Carmel Hill, Malaparamba P.O.
Calicut - 673 009, Kerala, INDIA.

Date: 01-05-2022

CERTIFICATE

This is to certify that the project titled 'ISOLATION AND CHARACTERIZATION OF ENDOPHYTIC BACTERIA FROM THE LEAVES OF *CYANTHILLIUM CINEREUM*' is an authentic record of the work carried out by the following students under my supervision and guidance in partial fulfilment of the requirements of the Degree of Bachelor of Science in Zoology during the year 2021-22 and that no part thereof has been presented before for any other project.

SL. NO	NAME OF THE STUDENTS	REGISTER NUMBER
1.	HARSHA K. P.	PWATSO011
2.	MARLIN THOMAS	PWATSO012
3.	MEGHNA P.	PWATSO013
4.	NAVEENA E.	PWATSO014
5.	NEHILA PARVIN K. P.	PWATSO015
6.	NOURA KONDASAN PARAMBIL	PWATSO016
7.	RESHMI M. C.	PWATSO017
8.	SHADHA FATHIMA	PWATSO018
9.	SNEHA V. M.	PWATSO019

Examiners:

1. 12/5/22 Dr. Manjusha. K. I.
2. Dr. Sangeetha. G. K.

Dr. SANGEETHA G KAIMAL

Dr. SANGEETHA G KAIMAL
Asst. Professor & Research Guide
Department of Zoology
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Head of the Department



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Carmel Hills, Malaparamba, P.O

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Date: 12/10/2022

CERTIFICATE

This is to certify that the project titled 'EFFECT OF HEAVY METAL TOXICITY IN BIOCHEMICAL PARAMETERS OF FRESHWATER FISH *Oreochromis mossambicus*' is an authentic record of the work carried out by the following students under my supervision and guidance in partial fulfillment of the requirements of the Degree of Bachelor Science in Zoology during the year 2021-2022 and that no part thereof has been presented before any other project.

SL.NO	NAME	REGISTER NUMBER
1	ARSHITHA P R	PWATSO001
2	ATHULYA K	PWATSO002
3	KEERTHANA SARATH	PWATSO003
4	SNEHA M K ✓	PWATSO004
5	SONA SATHEESH K	PWATSO005
6	AHIJA R V	PWATSO006
7	ANAGHA R	PWATSO007
8	ANJANA M	PWATSO008
9	ANJANA P K	PWATSO009
10	ANJITHA V	PWATSO010

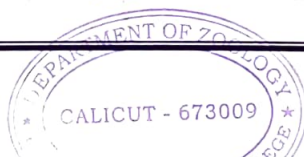
Examiners:

1.  Dr. Manjusha K T
2.  SMRITHI K



Dr. Nishi Ann

DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009



DEPARTMENT OF ZOOLOGY

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DR. SHUBA BABU
JAYAPRAKASH

Assistant professor



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Carmel Hills, Malaparamba, P.O

Calicut- 673 009, Kerala, INDIA

Date: 12.5.2022


CERTIFICATE

This is to certify that the project titled 'INVITRO ANTIOXIDANT ACTIVITY AND METHANOLIC LEAF EXTRACT OF MEDICINAL PLANTS' is an authentic record of the work carried out by the following students under my supervision and guidance in partial fulfillment of the requirements of the Degree of Bachelor Science in Zoology during the year 2021-2022 and that no part thereof has been presented before any other project.

SL.NO	NAME	REGISTER NUMBER
1	FATHIMA HIBA	PWATSZO029
2	FIDA SHERIN KP	PWATSZO030
3	JILU JOSE	PWATSZO031
4	MASHIDA MUSTHARY O.P	PWATSZO032
5	NAJIHA THASNEEM N	PWATSZO033
6	NAMITHA METILDA ROZARIO	PWATSZO034
7	NAVYA S	PWATSZO035
8	SHILPA TP	PWATSZO036
9	T POOJA	PWATSZO037

Examiners:

1.  12/5/22 Dr Mayyusha K T

2.  12/5/22 Smithi K



DR.SUBHA BABU JAYAPRAKASH

Dr. NISHANN

Asst. Professor & HOD

Department of Zoology
Providence Womens College
Calicut, Kerala

CALICUT - 673009

PROVIDENCE WOMEN'S COLLEGE

CALICUT - 9



REPORT OF STUDY TOUR & FIELD TRIPS

Name..... NAVEENA . E

I certify that this is the bonafide record of field work done by the candidate..... NAVEENA . E

with Reg.No..... PWATSZ0014 during the years... 2019 - 22

EXAMINERS

1. [Signature]
12/5/22

2. [Signature]
12/5/22

[Signature]
Smrithi . K



STAFF IN CHARGE

Subha
Dr. Subha Babu Jayaprakash

HEAD OF DEPT.

[Signature]
DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
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CALICUT - 673009

FIELD DIARY

CONTENTS

I RESEARCH INSTITUTIONS

Visit to Zoological Survey of India, Calicut.

Visit to Research Labs at Department of Zoology, University of Calicut.

II ACADEMIC TALKS

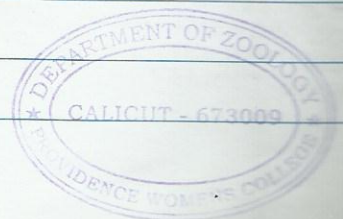
"Hotspots of Biodiversity - Western Ghats" by Dr. Suseelan Scientist, Regional Centre Calicut, Zoological Survey of India.

"Our Western Ghats : Unriched Biodiversity" by Dr. Jafer Palot, Senior Scientist at Zoological Survey of India, Regional Centre Calicut.

"Micropropagation : Techniques and Applications" by Dr. Andira Nanaiah, Assistant Professor in Botany, Krister Jayanthi College, Bangalore.

"DNA Barcoding" by Dr. K.P. Dinesh, Scientist at Zoological Survey of India, Pune.

"Birds of Kerala" by Shri. Sathyan Meppayur, President MNHS.



III WORKSHOPS HELD AT COLLEGE

Milk and Milk products on 14th January 2019

Honey and Honeybee products on 20th November 2019

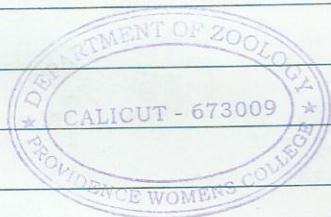
IV ELECTIVE - APPLIED ENTOMOLOGY

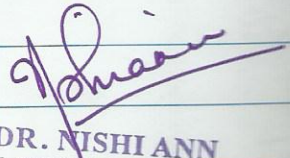
Visit to Entomology Museum, Department of Zoology, University of Calicut.

Visit to Botanical Garden, Department of Zoology, University of Calicut.

Talk on "World of Honeybees" by Dr. Jobinraj T, Assistant Professor of Zoology, Government College Koderchery, Kozhikode.

Talk on "Drug Beetle and its Ecological significance" by Dr. Subha Babu Jayaprakash, Guest lecturer, Providence Women's College, Calicut.




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III WORKSHOP - HOD AT COLLEGE

Milk and Milk Products for the January 2019
Workshop and Workshop for the 2019



[Signature]
DEPARTMENT OF FOOD
PROVIDING WOMEN'S COLLEGE
CALCUTTA 700 001

VISIT TO ZSI

On 13th November 2019 we students of I DC Zoology visited ZSI, Calicut. ZSI is a Western Ghats Field Research Centre, founded on 1 July 1916 by Government of India, Ministry of Environment, Forest and Climate Change, was premier Indian Organisation in Zoological research and studies to promote the survey, exploration and research of the country.

The Western Ghats regional centre at Calicut, Kerala, established in 1980, under the sixth five year plan of the the Government of India, is one among the sixteen regional centres of the Zoological Survey of India. The internationally acclaimed taxonomic organization of the country.

Representative fauna of Western Ghats, pictorials and habitat cases, models are in display at the natural History museum of the centre, for generating public awareness towards biodiversity conservation and for protecting the natural resources of Western Ghats.

Western Ghats is a mountain range that covers an area of 160000 km² parallel to the western coast of the Indian Peninsula, traversing states of Kerala, Karnataka, Tamil Nadu, Maharashtra, Goa and Gujarat. It is a UNESCO World Heritage site and is one of the eight biodiversity hotspots in the world. It contains very large population of the country's flora and fauna many of which are endemic to this region. A total of 39 areas in the Western Ghats including National

VISIT TO ISI



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Parks, wildlife sanctuaries and Reserve forests were designated as World Heritage sites in 2012 - Twenty in Kerala, ten in Karnataka, six in Tamil Nadu and four in Maharashtra. According to UNESCO Western Ghats were older than Himalayas.

Western Ghats were home to thousands of animal species. The area has over 7402 species of flowering plants, 1814 species of non-flowering plants, 134 mammal species, 508 bird species, 227 reptile species, 179 amphibian species, 290 freshwater fish species and 6000 insect species. At least 325 globally threatened species occur in the Western Ghats. Threatened species are the Tiger, leopard, lion-tailed Macaque, Nilgiri Tahr, Asian elephant, Nilgiri langur and gaur.

~~John~~



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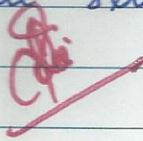
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VISIT TO RESEARCH LAB

On 19th February 2022 Department of Zoology conducted a study tour to Calicut University biotechnology lab. To know more about research equipments and techniques under the guidance of Ms. Vidhya.

It gives us insight on various research equipments and their uses, which include micropipette for pipetting at micro level, vortex mixer for mixing the solution, magnetic mixer using magnetic capsule for mixing the solution, incubator for incubating culture medium, hot air oven for heating and preparation of culture medium, freezer which is at -44°C , -20°C , -80°C for keeping culture medium and laboratory materials, laminar air flow cabinet to avoid contamination of culture media. It contains laminar air filter, UV light, flame, moisture incubator for incubating in the presence of moisture, PCR (Polymerase Chain Reaction machine) which gradient contains 96 wells. PCR is used for amplification of DNA, Agarose gel electrophoresis is for identifying and separation of amplified DNA using comb, agarose gel, PCR buffer.

It was thought provoking and interesting experience. We gained new ideas and insights on the research techniques and equipments. It makes us closer to research knowledge for future study.



HOTSPOTS OF BIODIVERSITY - WESTERN GHATS

We got a wonderful session at ZSI, Calicut. We had the presence of an eminent personality, Sureshan. P. M., Scientist Regional Centre Zoological Survey of India. Sir gave us lot of information which was very helpful and filled with knowledge.

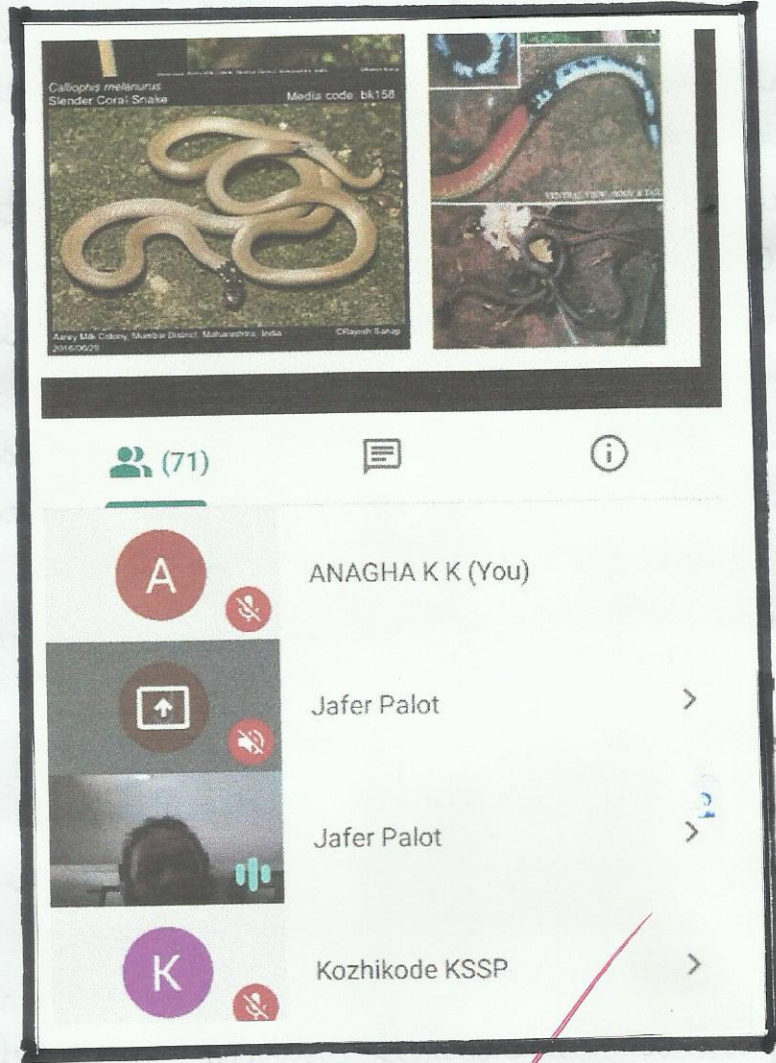
A talk by Dr. Sureshan was held at ZSI on November 13 at 2:00 pm addressing the ecological aspects of Western Ghats. The Western Ghats, a non-equatorial forest area older than the Himalayas, is of global ecological importance. It is home to more than 325 endangered species of fish, flora and fauna. There are 39 rare species of mammals here.

The Western Ghats also known as the Sahyadri, is spread over 142 populated taluks in 44 districts of six states, including Kerala. The tragedy of the Western Ghats, the biological resource of these states, lies back in the coordination of conservation measures due to the different political administrations.

Gadgil report was summarised with including its critical approach developed during the ~~messing~~ claiming it to be too environment friendly affecting livelihood and habitat of people. However, if one could thoroughly study the report and analyse, we come to the conclusion that Gadgil report is highly essential for the ongoing natural disasters.

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HOTSPOTS OF BIODIVERSITY - WESTERN GHATS



Callisophis

DNA BARCODING

On 26th December 2020 Department of Zoology in association with research and development cell unit conducted a webinar on DNA barcoding as a tool for documenting the faunal diversity for the students and faculties.

DNA barcoding is standardised approach for identifying plants and animals by using maximal sequence of DNA barcodes. DNA barcoding is a recent development in genetics and it is important because it provides much closer view of how the biological world actually looks like.

The talk was led by Dr. K.P. Dinesh, scientist at Zoological Survey of India, Pune.

DNA barcoding is a method of species identification using a short section of DNA from a specific gene or genes. The premise of DNA barcoding is that, by comparison with a reference library of such DNA sections, an individual sequence can be used to identify an organism to species. This barcodes are sometimes used in an effort to identify unknown species or simply to catalogue as many taxa as possible or to compare with traditional taxonomy in an effort to determine species boundaries.

Applications of DNA barcoding include applications of identification of new species, safety assessment of food, identification and assessment of cryptic species, detection of alien species, identification of endangered and threatened species, linking egg and larval stages to adult species. The talk by Dr. K.P. Dinesh was really an

DIVERSITY

- > Few taxonomists can even reliably identify a collection of ~1000 species
- > How do we complete the task of identifying the remaining species, let alone recognizing them once they are identified?
- > By others' estimates, there are approximately 10,000 active taxonomists globally [https://www.biodiversity.org/](#)

Solution - Create a genetic based identification system (DNA barcode)

(64)



LADEEDA (You)



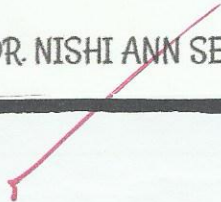
Dinesh KP



Dinesh KP



DR. NISHI ANN SEQUEI...



Stage III - Rooting of the shoot.

Stage IV - Transfer of plantlets in the green house environment.

The talk by Dr. Indira was really informative and effective as the application of micropropagation became by aid to human.

It is the best technique for the production of millions of clone in one year. It facilitates growth, storage and maintenance of large number of plant in small space. This method is useful for germplasm storage and protection of endangered species. It is the best technique to transfer different species of plants to different countries.

The class by Nanaiah is very stimulating and enlightening session. These session helped to kindle renewed enthusiasm in our subject and much helpful for our future research and studies.

~~Signature~~

MICROPROPAGATION : TECHNIQUES AND APPLICATIONS

On 7th October 2020 Department of Zoology conducted a webinar on Micropropagation, Techniques and Application for the students and teaching faculties.

The speaker of the session was Dr. Sudhira Nanaiah, Assistant professor in Botany, K. J. Somaiya Institute of Technology, Mumbai.

Micropropagation is the artificial process of producing plants vegetatively through tissue culture or cell culture. In this artificial process of propagation of plants are produced in vitro by asexual means of reproduction or by vegetative propagation. Plants can be produced both asexually via vegetative parts multiplication or sexually in seed production.

The artificial process of producing plantlet involves five different methods

- i) Meristem culture.
- ii) Callus culture.
- iii) Suspension culture.
- iv) Embryo culture.
- v) Protoplast culture.

Dr. Sudhira explained the stages of micropropagation productively and they are

Stage 0 - The initial stage of micropropagation which include selection of explant.

Stage I - Consist of culture initiation and establishment.


Stage II - shoot multiplication.

microbiology, pharmaceuticals, agriculture, cosmetics, food additives and nutraceuticals.

- There are many useful compounds that can be obtained from plant products and that too have become a field of special interest in various Secondary plant products

- Alkaloids, flavonoids, essential oils, nutritive value in food crops, color and pigmentation in flowers etc.



 (56)



LADEEDA (You)



Julie E



Indira M N



AMALA GEORGE K



Rhacophorus lateralis, *indriana* etc. He shared the images of newly discovered species like purple frog which is new knowledge to us. He gave us the detailed description of Western Ghats which is home to atleast 325 globally threatened species, of these, there are about 229 plant species, 32 mammal species, 15 avian species, 43 amphibian species, 5 reptilian species and one fish species.

We came to know more about the endemic species in Western Ghats such as amphibians - *Rhacophorus lateralis* (small tree frog), *Nyctibatrachus minus* (night frog) and reptilians - *Bistellia beddomii* (Beddome's cat skink) and *Sphenomorphus dussumieri* (Dussumier's forest skink) and their characteristics also about the newly discovered species.



It was really a wonderful session with loads of information.

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OUR WESTERN GHATS : ENRICHED BIODIVERSITY


Interesting amphibians of Western Ghats are found only from, Kurichiyarmala, Wayanad, Kerala and having a adult size of 1 cm to 1.5 cm

Largest Frog:
Bull Frog, *Hoplobatrachus tigerinus* is the largest frog found in India. Adults can grow up to 16 cm




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OUR WESTERN GHATS : ENRICHED BIODIVERSITY

On 3rd October 2020 Department of Zoology in association with the social forestry department, Government of Kerala conducted a webinar on the topic, "Our Western Ghats: Enriched Biodiversity". The session was held by Dr. Jafar Palot, senior scientist at zoological survey of India.

The webinar started as per schedule and it was conducted through Google meet platform. The Western Ghats include a diversity of ecosystem ranging from tropical wet evergreen forest to mountain grasslands and containing numerous medicinal plants and important genetic resources such as wild relatives. Western Ghats is a mountain range that covers an area of 16,000 km² parallel to the western coast of the Indian Peninsula. It is UNESCO World Heritage site and it is one of the eight biodiversity hotspots in the world. This contains a very large proportion of country's flora and fauna.

Dr. Jafar Palot discussed about the importance of conservation of biodiversity in Western Ghats and he also introduced about its enriched biodiversity. He shared the images of newly discovered species such as purple frog and varieties of amphibians and reptiles residing there. We came to know that amphibians of Western Ghats are diverse and unique with more than 80% of the 179 amphibian species being endemic to the rain forests and mountains. He shared the images of *Mixixalus*,

DUNG BEETLES AND ITS ECOLOGICAL SIGNIFICANCE

On 26th November 2021 department of Zoology in association with research and development cell conducted a talk on beetles and its ecological significance. The speaking session was handled by Susha Babu Jayaprakash, Alumina of Department of Zoology, Providence Women's College.

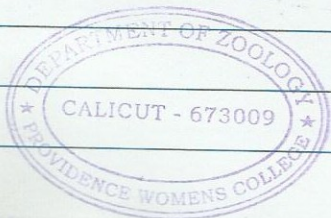
Beetles are small black with yellow wings colour. Dung beetle life cycle has different stages like formation of eggs, first instar, second instar, third instar, pupae and adult.

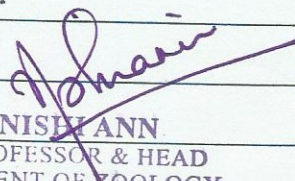
Dr. Susha explained the stages very clearly. The egg of beetle has smooth surface. It has many instars in its life cycle. They feed on plants. Beetles larva differ from the chewing mouth parts and spiracles along side of the body of beetle. From the pupae emerges fully formed beetles. Pupae never have mandibles, appendages.

The talk was informative. Beetles help cycle nutrients in soil by removing dung of fruit eating vertebrates. Seed rollers act as seed dispersing agents. As they dig and make tunnels the soil loosens and texture of soil increases.

Dr. Susha also explained about the scope of zoology in various fields ranging from Indian forest service to Endocrinology.

Talk by Dr. Susha was interesting and it helped us to know more about beetle and scope of our subject and it is very useful for future studies.




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BY:

- Indian Forest Services
- Indian Council of Agricultural Research (ICAR)
- Ministry of Environment Forest and Climate Change
- National Dairy Research Institute (NDRI)
- Zoological Survey of India
- Wildlife Organisations
- Institute of Advanced Study in Science & Technology (IASST)
- State Biodiversity Boards
- Forest Departments
- Research Institutes in India

zoology is presenting



Fathima



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Andre 83 others

zoology department is presenting

Tunnelers



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Participant list:

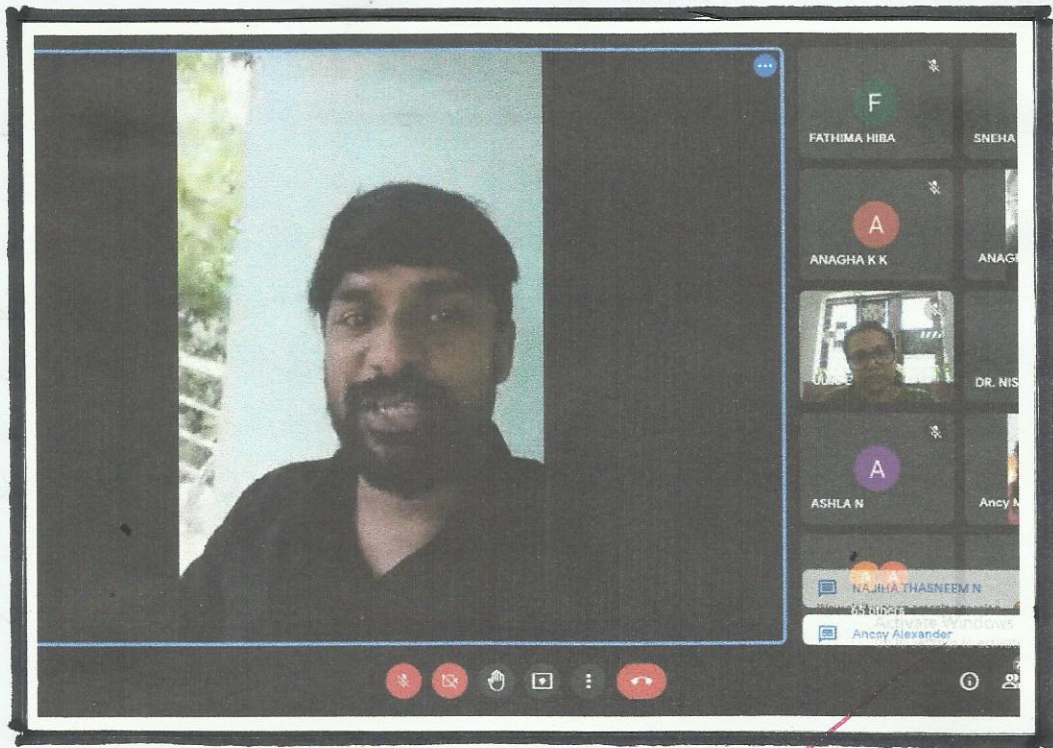
- Gayathry K
- NEHA S
- ANCSY ALEXANDER
- Meera V
- Marin S
- HALKA HARISH
- You

Apiculture is the commercial rearing of domesticated species of honey bees in apiaries for honey and wax. In India, apiculture is now very popular not only for the production of honey bees and wax but also for the pollination of some flowering cultivators.

Royal jelly is a milky secretion produced by worker honey bees. It is typically contains about water, protein, sugar, fats and vitamins, salt and amino acids. They are highly nutritious and may have antioxidant, antibacterial and anti-inflammatory properties.

It was very useful session and interesting too. We got plenty of information about honey bees. We can surely say that this was extraordinary interactive session. We acquired vast knowledge about honey bees.

WORLD OF HONEYBEES



WORLD OF HONEYBEES

On 24th June 2021 department of zoology in association with school conducted a webinar held by Dr. Tobias J. T, Assistant professor of zoology, Govt. College Kolencherry, Kozhikode. He gave us valuable information about socialization of honey bees.

Honey bees have always been the object of man's fascination, envy and wonder. The highest order and the perfect harmony of their social life, their noble spirit of altruism, the unique mode of their communication through a language of gestures, dances, sounds and scents, their extraordinary capacity and fitness for work, the marvellous architecture and geometrical accuracy of their waxy house, their interesting breeding and brood-rearing habits, their high economic importance, and their intimate association with the daily life of mankind, have always attracted our minds and hearts.

He pointed about the different forms of honey bees found in the beehive. They are workers, drones, queen. Workers are the smallest members of the colony, imperfectly developed and sterile females. So they are often called neuters. They have pollen basket, pollen brush, honey sac for collecting honey and pollen grains. Honey bee colony have only a single queen. Queens are easily recognized by their large abdomen and the retinue of workers. Queen primary duty is to lay eggs. Male bees do not have stingers. The males job is to mate with queen.

presenting

welcome to the world of Bees
(Hymenoptera: Apoidea: Apiformes)

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ANAGHA R Julie E
SNEHA V M ANAGH
DR. NISHI ANN SEQU... ASHLA
NOURA KONDASAN ... ANASH
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and plants. There was a graceful placid pool and octagonal green house and avenues of Royal palms of oil palms. The 7 km long road from main entrance on western side touches greenhouse, ginger zone, victoria pond, bamboo setum and luxuriant vegetation of myriads of hues and fragrance.

University has another 13.5 acres of land adjacent to garden for trees. This area on southern part has a peaceful forests (Jungle Path). It gives a feeling of tropical evergreen forests. There were many huge and woody trees. This trekking path consist of palms, lianas and climbers offers visitors a feel of warmth while trekking through its narrow trail.

Our study tour was very interesting, student participants interacted in a very well disciplined manner and cooperated well with teachers, guides and overall. It was a grand success. We realized that viewing the flora and fauna in its natural form was a great experience.

Arjun

VISIT TO BOTANICAL GARDEN



VISIT TO BOTANICAL GARDEN

On 19th February 2022 we the students of IIIrd DC Zoology visited Botanical garden at Calicut University at 2 pm along with the teacher Dr. Santhosh Nambi.

A botanical garden is a dedicated collection, cultivation, preservation and display of an especially wide range of plants, which are typically labelled with their botanical names. It may contain specialist plant collections such as cacti and other succulent plants, herb gardens, plants from particular parts of the world, and so on, there may be greenhouses, shadehouses, again with special collections such as tropical plants, alpine plants or other exotic plants.

Botanical gardens are often run by universities or other scientific research organizations and often have associated herbaria and research programmes in plant taxonomy or some other aspect of botanical science.

It was a vast area consisting of many plants, shrubs, herbs and trees. There were separate sections like succulent plants, ornamental plants, medicinal plants. Many wide varieties of telonia flowers were seen. As field study is very essential in zoology we observed many trees like canon bolltree. At the entrance on western side visitors were greeted by display of map and a pair of Krishna's butterfly trees.

The garden is 19.5 aca with a shallow basin by dropping terrain, on southern side where it slides down to a small transitory reservoir, with diverse habitats



There was a collection of insects of medical importance like blow flies, leech bugs, house flies etc. There was a variety collection of butterflies and moth, like common crow, common mormon, Malabar banded peacock, many tailed oak blue, tailed Jay, Black rija, clipper etc. These were collected and preserved by the students and class by Sreejith sir was amazing and effective and slightly useful to our study.

Sreejith

VISIT TO ENTOMOLOGY MUSEUM



VISIT TO ENTOMOLOGY MUSEUM

On 19 February 2022 we visited Entomology museum, Department of Zoology, Calicut University. There was a huge collection of various types of insects and we have a class about various insects trapping methods, instruments and precautions need for insect collections by Dr. Sreejith Kanholi, Assistant Curator Department of Zoology, Calicut University. We observed,

- Pest of paddy like *Nilaparvata lugens*, *Leptocorisa acuta* etc.
 - Pest of sugarcane like *Chilo infuscatellus*, *Scirpophaga nivecra*
 - Pest of tea like *Helopeltis antonii*, *Toxoptera ansanti*.
 - Pest of coconut like *Oryctes rhinoceros*, *Opisina arenosella*.
- Also we observed many orders.

Order Aphemeroptera

Order Odonata

Order Diptera

Order Isoptera

Order Coleoptera

Order Plecoptera

Order Neuroptera

Order Cheloniptera

Order Orthoptera

Order Amblyptera

Order Mallophaga

Order Lepidoptera

Order Hymenoptera

Order Siphonoptera

Order Neuroptera



used in cosmetics and medical industry. Each and every variety of honey comes with its own distinct flavour and they are processed to meet various health and beauty needs. Sir gave us to taste honey gooseberry which was new to us. He gave us to have a look at the bee hives.

We gained information about apiculture and uses of various products that are obtained through apiculture. It was very interactive session so that we could get the opportunity to clear doubts regarding apiculture techniques and to make it more interesting.

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HONEY AND HONEYBEE PRODUCTS





includes proteins, and includes products such as skimmed milk, standardized milk, fortified milk and ultra high temperature milk.

Condensed milk is simply regular cow's milk with water removed and significant amounts of sugar added to sweeten it. Skimmed milk contains 5% fat, while skimmed milk has no fat.

Sir have explained the stages of milk processing very well. These are steps in unloading and platform test, weighing, quality check, pasteurization, packaging etc. He introduced us various milma products such as milma special curd, milma sambaram, milma ghee, cheese, peda etc. Also he let us taste some of their products.

Sir have explained about pasteurization very clearly. Pasteurized milk is raw milk that has been heated to a specified temperature and time to kill pathogens that may be found in the raw milk. Pasteurization is used widely in the dairy industry and other food processing industries to achieve food preservation and food safety.

It was a very informative and enlightening session. We got so much information about milk and dairy products and how its been processed. After this session we are more aware about the importance of milk in a person's life.

Celia

MILK AND MILK PRODUCTS



MILK AND MILK PRODUCTS

On 14th January 2019, Department of Zoology conducted programme of milk and milk products by Milma. The programme was held at 10 pm on AV hall. The speaker of the session was Sri. K.C. James.

Milk and dairy products are an important part of child's diet. They are good source of energy and protein and contain a wide range of vitamins and minerals. They are rich in calcium which growing children and young people need to build healthy bones and teeth.

Milk is a nutrient rich liquid food produced by mammary glands of mammals. It is the primary source of nutrition for young mammals before they are able to digest solid food. Lactation milk, which is called colostrum, contains antibodies that strengthen the immune system and thus reduces the risk of many diseases. Milk contains many other nutrients.

Consuming milk everyday makes our skin glowing and supple, it also aids in getting a good night's sleep. Regular consumption helps build muscles, reduces stress, better eyesight and even lowers the risk of developing high blood pressure and cholesterol.

Milma is a state government cooperative under the ownership of ministry of cooperation, Government of Kerala. It took over the production and milk marketing facilities under the Kerala livestock and milk marketing board. Liquid milk is the most consumed product. It



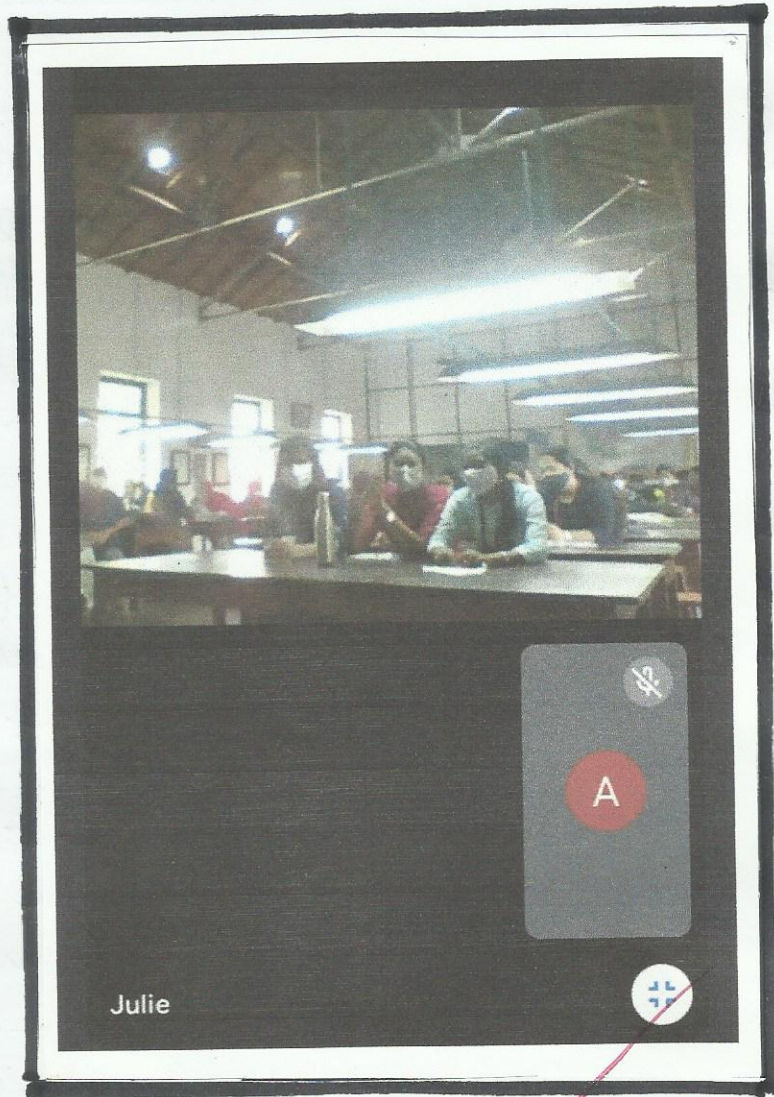
as Blue-winged Parakeet, Malabar Grey Hornbill, Nilgiri Wood pigeon etc is endemic to Kerala. Common birds of Kerala include :-

SCIENTIFIC NAME	COMMON NAME
<u>Pavo cristatus</u>	Indian Peafowl
<u>Caprimulgus atripennis</u>	Teddon's nightjar
<u>Centropus sinensis</u>	Greater coucal
<u>Curdramys scolopaceus</u>	Asian koel
<u>Cuculus canorus</u>	Common cuckoo
<u>Columba livia</u>	Rock pigeon
<u>Columba elphinstonii</u>	Nilgiri wood pigeon
<u>Phoenicopterus roseus</u>	Greater flamingo
<u>Otus bakkamoena</u>	Indian scops owl.
<u>Asio flammeus</u>	Short-eared owl.
<u>Brachypodius prinocephalus</u>	Grey-headed bulbul.
<u>Pomatorhinus horsfieldii</u>	Indian scimitar babbler

We gained much information about the habit, habitat and special features of the birds of Kerala through this session. The class was a visual treat that we saw the pictures of many beautiful birds. Also we got the opportunity to hear the calls of some local birds. It was an interactive session and that made it more interesting.

Archi

BIRDS OF KERALA



Julie

BIRDS OF KERALA

On 6th October 2021 Department of Zoology conducted a webinar on "Birds of Kerala" in association with wildlife week celebration 2021. The webinar was held at 1:30 pm through google meet. The programme was inaugurated by Shri. Sunil Kumar K, Assistant conservation of forests social forestry extension Division, Kozhikode and the talk was done by Shri. Sathyan Meppayur, President MNHS.

Birds are a group of warm blooded vertebrates characterised by feather's, toothless beaked jaws, the laying of hard shelled eggs, high metabolic rate, a four chambered heart and a strong yet light weight skeleton. Birds live world wide and change in size from 5.5 cm Hummingbird to 2.8 m Ostrich. There are about ten thousand living species, more than half of which are passerine or "Perching birds".

Birds have wings whose development varies according to species. The only known groups without wings are the extinct Moa and Elephant birds. Wings which evolved from forelimbs, gave birds the ability to fly although further evolution has led to the loss of flight in some birds including Ratites, Penguins and diverse Island species. The digestive and respiratory systems of birds are also uniquely adapted for flight.

Birds produce offsprings by laying eggs which are fertilised through sexual reproduction. The state of Kerala has 567 species within the boundaries. Some of them such



informative session.

We gained precise information about DNA barcoding and the application of DNA barcoding. A section of DNA from a butterfly is sequenced and matches thus the species is identified. It was very interactive session so that we could get the opportunity to clear doubts regarding DNA barcoding and to make it more interesting.

~~Also~~

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REPORT OF STUDY TOUR & FIELD TRIPS

Name..... RESHMI M.C......

I certify that this is the bonafide record of field work done by the
candidate..... RESHMI M.C......

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EXAMINERS

1. [Signature] 13/5/22 Dr. Neerasha K
2. [Signature] 12/5/22 Smrithi-k

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Name... Shadha Fathima

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EXAMINERS

1. Manjusha 12/5/22 Dr Manjusha K
2. Saritha 12/5/22 Saritha K

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1. *Mayusha KT* 12/5/22 Dr Mayusha KT

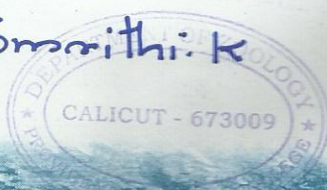
2. *Smrithi K* 12/5/22 Smrithi K

Sangeetha

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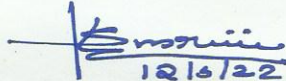
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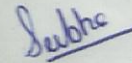
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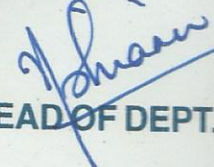
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1.  Dr. Manjusha K.T.
2.  SMRITHI . K
12/6/22


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candidate SNEHA - V . M

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EXAMINERS

1. [Signature] Dr. Manjusha K T

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1. [Signature] 12-5-22 Dr. Manjusha. K.T.

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Name..... T. POOJA.....

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with Reg.No..... PWATSZ0037..... during the years... 2019-2022.....

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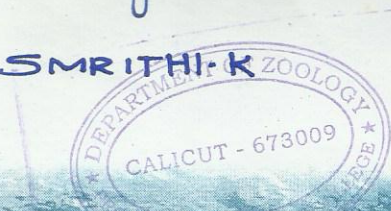
Name..... AHIJA. RV

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candidate..... AHIJA. RV

with Reg.No..... P.WA.15.Z.O.006during the years.. 2019 - 2022 ..

EXAMINERS

1. [Signature] 12/5/22 Dr. Marysanthi.
2. [Signature] 12/5/22 **SMRITHI. K**



[Signature]
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REPORT OF STUDY TOUR & FIELD TRIPS

Name... AJANYA RAMAKRISHNAN.....

I certify that this is the bonafide record of field work done by the
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with Reg.No... PWAFS 20021..... during the years 2019-22.....

EXAMINERS

1. [Signature] 12/5/22 Dr. Manjusha KT.
2. [Signature] 12/5/22 Smrithi K

[Signature]
Dr. SANGEETHA G. KAIMAL
Assistant Professor
STAFF IN CHARGE
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[Signature]
HEAD OF DEPT.
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PROVIDENCE WOMEN'S COLLEGE
CALICUT - 9



REPORT OF STUDY TOUR & FIELD TRIPS

Name..... Anagha.k.k.....

I certify that this is the bonafide record of field work done by the
candidate..... Anagha.k.k.....

with Reg.No..... PWATS20022..... during the years..... 2019-2022.....

EXAMINERS

1. Mayyasha.K.T
12/5/22

Dr Mayyasha.K.T.

2. Smsrithi.K
12/5/22

Smsrithi.K



Subha

STAFF IN CHARGE

Dr. Subha Babu Jayaprakash

Nishi Ann

HEAD OF DEPT.
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REPORT OF STUDY TOUR & FIELD TRIPS

Name..... ANAGHA . R

I certify that this is the bonafide record of field work done by the
candidate..... ANAGHA . R

with Reg.No. PWATSZ0007 during the years 2019 - 2022

EXAMINERS

1. Manjusha 12/5/22 Dr. Manjusha.K.T.

2. Smrithi 12/5/22 SMRITHI. K

Sangeetha
Dr. SANGEETHA G. KAIMAL
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REPORT OF STUDY TOUR & FIELD TRIPS

Name..... ANASHAYA .K

I certify that this is the bonafide record of field work done by the candidate..... ANASHAYA .K

with Reg.No..... PWATSZ0023 during the years..... 2019-2022

EXAMINERS

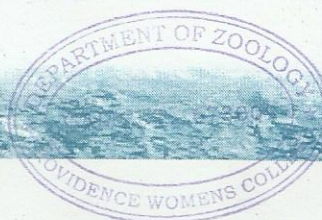
1. [Signature] 12/5/22 Dr. Manjusha.KT

2. [Signature] 12/5/22 Smiti. K

[Signature]
Dr. E. Julie
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PROVIDENCE WOMEN'S COLLEGE CALICUT - 9



REPORT OF STUDY TOUR & FIELD TRIPS

Name..... ANDREA DAIZ.K

I certify that this is the bonafide record of field work done by the
candidate..... ANDREA DAIZ.K

with Reg.No..... PWATSZ0024 during the years..... 2019 - 2022

EXAMINERS

1. [Signature] 12/5/22 Dr Manjusha KT
2. [Signature] 12/5/22 Sureshi. K

[Signature]
Dr. SANGEETHA G. KAIMAL
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REPORT OF STUDY TOUR & FIELD TRIPS

Name..... ANJANA M

I certify that this is the bonafide record of field work done by the
candidate..... ANJANA - M

with Reg.No. P.W.A.T.S.Z0008 during the years... 2019 - 2022

EXAMINERS

1. *Marysna*
12.5.22

Dr. Marysna K.T.

2. *Smrithi*
12/5/22

SMRITHI.K



Sangeetha
Dr. SANGEETHA G. KAIMAL
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REPORT OF STUDY TOUR & FIELD TRIPS

Name..... ANJANA . P.K

I certify that this is the bonafide record of field work done by the candidate..... ANJANA . P.K

with Reg.No..... PWATSZO009 during the years..... 2019-22

EXAMINERS

1. ~~Signature~~ 12/5/22 ~~Signature~~ Dr. Manjusha.K.T.
2. ~~Signature~~ 12/5/22 SMRITHI.K

~~Signature~~
Dr. SANGETHA G KAIMAL
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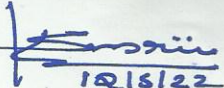
REPORT OF STUDY TOUR & FIELD TRIPS

Name..... ANJITHA V


I certify that this is the bonafide record of field work done by the
candidate..... ANJITHA V

with Reg.No..... PWATSZ0010 during the years..... 2019 - 2022

EXAMINERS

1.  12-5-22 Dr. Mangusha KT
2.  12/15/22 SMRITHI K


Dr. E. Julie
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REPORT OF STUDY TOUR & FIELD TRIPS

Name..... ARSHITHA.P.R.....

I certify that this is the bonafide record of field work done by the
candidate..... ARSHITHA.P.R.....

with Reg.No..... PWATSZ0001..... during the years..... 2019 - 2022

EXAMINERS

1. Dr. Manjusha K.T.

2. SMRITHI.K

Subha

STAFF IN CHARGE

Dr. Subha Babu Jayaprakash

N. NASHI ANN

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DR. NASHI ANN
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REPORT OF STUDY TOUR & FIELD TRIPS

Name..... ARYA SAJIL

I certify that this is the bonafide record of field work done by the
candidate..... ARYA SAJIL

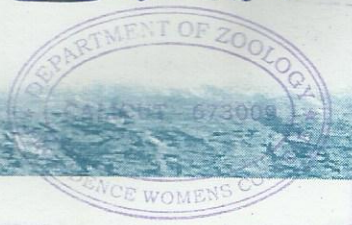
with Reg.No..... PWATSZ0025 during the years..... 2019-22

EXAMINERS

1. [Signature] 12/5/22 Dr Manjusha KT.
2. [Signature] 12/5/22 Smrithi.K

[Signature]
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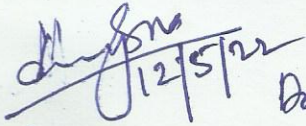

REPORT OF STUDY TOUR & FIELD TRIPS


Name.....ASHLA N.....


I certify that this is the bonafide record of field work done by the
candidate.....ASHLA N.....

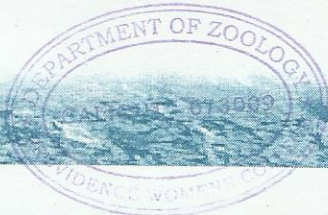
with Reg.No. PWATSZ0026..... during the years.....2019- 2022.....

EXAMINERS

1.  Dr. Manjusha KT
2.  S. Smitha K


Dr. SANGEETHA G. KAIMAL
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CALICUT - 9



REPORT OF STUDY TOUR & FIELD TRIPS

Name..... ASMA SHIRIN - K

I certify that this is the bonafide record of field work done by the candidate..... ASMA SHIRIN - K

with Reg.No... PWATS ZOO 21 during the years... 2019-2022

EXAMINERS

1. [Signature] 14/3/22 Dr. Manjusha. K T
2. [Signature] 12/5/22 S. Smithi. K

[Signature]
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Assistant Professor
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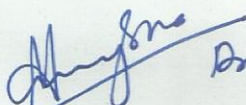
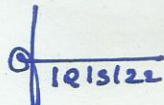
REPORT OF STUDY TOUR & FIELD TRIPS


Name..... ATHULYA K

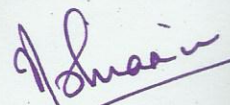
I certify that this is the bonafide record of field work done by the candidate..... ATHULYA K

with Reg.No. PWATSZ0002 during the years. 2019 - 2022

EXAMINERS

1.  Dr. Manjusha K.T.
2.  SMRITHI K


Dr. E. Julie
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REPORT OF STUDY TOUR & FIELD TRIPS

Name..... AYISHA HANNA-CK.....

I certify that this is the bonafide record of field work done by the
candidate..... AYISHA HANNA-CK.....

with Reg.No. PWATSZ0028..... during the years..... 2019-22.....

EXAMINERS

1. [Signature] / 12/3/22 Dr Manjushakti
2. [Signature] / 12/3/22 S. Smithi.k



[Signature]
Dr. P. Julie
STAFF IN CHARGE for
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Calicut - 673 009

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DR. NISHIANN
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PROVIDENCE WOMEN'S COLLEGE
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REPORT OF STUDY TOUR & FIELD TRIPS

Name.....FATHIMA HIBA.....

I certify that this is the bonafide record of field work done by the
candidate.....FATHIMA HIBA.....

with Reg.No.....PWATSZ0029.....during the years.....2019-2022.....

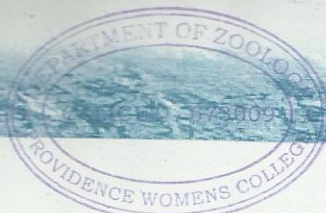
EXAMINERS

1. [Signature] 12/5/22 Dr. Manjusha. K.T.
2. [Signature] 12/5/22 Smrithi. K

[Signature]
Dr. E. Lillie
STAFF IN CHARGE
Assistant Professor
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PROVIDENCE WOMEN'S COLLEGE
CALICUT - 9



REPORT OF STUDY TOUR & FIELD TRIPS

Name..... Fidha sheela . K.P

I certify that this is the bonafide record of field work done by the
candidate..... Fidha sheela . K.P

with Reg.No..... PWATSZ0030 during the years..... 2019- 2022

EXAMINERS

1. [Signature] 21/5/22 Dr. Manjusha K S
2. [Signature] 12/5/22 Smrithi . k

[Signature]
Dr. STAFFINCHARGEL
Assistant Professor
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Providence Women's College
Malaparamba P.O., Calicut - 9

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PROVIDENCE WOMEN'S COLLEGE
CALICUT - 9



REPORT OF STUDY TOUR & FIELD TRIPS

Name.....HARSHA .K.P.....

I certify that this is the bonafide record of field work done by the
candidate.....HARSHA K.P.....

with Reg.No.PWATSZ0011.....during the years.2019 - 2022.....

EXAMINERS

1. Manjusha 12.5.22
Dr. Manjusha .K.T.

2. Smriti
12/5/22 Smriti . K

Subha
STAFF IN CHARGE

Dr. Subha Babu Jayaprakash

Nishi Ann
HEAD OF DEPT.

DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT - 9



PROVIDENCE WOMEN'S COLLEGE CALICUT - 9



REPORT OF STUDY TOUR & FIELD TRIPS

Name..... JILU JOSE.....

I certify that this is the bonafide record of field work done by the
candidate..... JILU JOSE.....

with Reg.No..... PINWATS20031..... during the years..... 2019-2022.....

EXAMINERS

1. [Signature] 12/5/22

Dr. Manjusha K.T.

2. [Signature] 12/5/22

Smithi: k

[Signature]

Dr. SANGERTHA G. KADMAL
STAFF IN CHARGE

Assistant Professor
Department of Zoology
Providence Women's College
Malaparamba P.O., Calicut - 9

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DEPARTMENT OF ZOOLOGY
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CALICUT - 673 100



PROVIDENCE WOMEN'S COLLEGE
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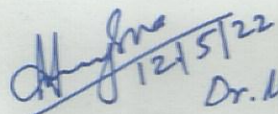
REPORT OF STUDY TOUR & FIELD TRIPS

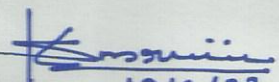
Name..... KEERTHANA SARATH.....

I certify that this is the bonafide record of field work done by the
candidate..... KEERTHANA SARATH.....

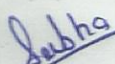
with Reg.No..... PWATS.ZO.003..... during the years 2019-22.....

EXAMINERS


1.  12/5/22
Dr. Manjusha K S

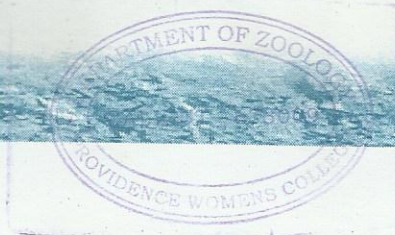
2.  12/5/22
SMRITHI.K

STAFF IN CHARGE


Dr. Subha Babu Jayaprakash

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DEPARTMENT OF ZOOLOGY
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CALICUT



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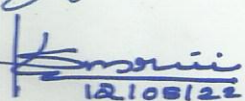
REPORT OF STUDY TOUR & FIELD TRIPS

Name MARLIN THOMAS

I certify that this is the bonafide record of field work done by the candidate MARLIN THOMAS

with Reg.No. PWATSZ0012 during the years 2019-2022

EXAMINERS

-  12.5.22 Dr. Mayrisha K.T.
-  12/10/22 Somyathi K.


Dr. F. Julie
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Calicut - 673 009


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DR. NISHI ANN
ASST PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE



PROVIDENCE WOMEN'S COLLEGE

CALICUT - 9



REPORT OF STUDY TOUR & FIELD TRIPS

Name MASHIDA MUSTHARY OP

I certify that this is the bonafide record of field work done by the candidate MASHIDA MUSTHARY OP with Reg.No. PWATS20032 during the years 2019-22

EXAMINERS

- Dr. Manjusha K.T. 12/3/22
- Smrithi K 12/1/22

STAFF IN CHARGE

Subha
Dr. Subha Babu Jayaprakash

HEAD OF DEPT.

Nishi Ann
DR. NISHI ANN
ASST. PROFESSOR & HEAD
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CALICUT - 673009



PROVIDENCE WOMEN'S COLLEGE CALICUT - 9



REPORT OF STUDY TOUR & FIELD TRIPS

Name... MEGHNA.P

I certify that this is the bonafide record of field work done by the
candidate... MEGHNA.P

with Reg.No. PWATSZ0013..... during the years 2019-2022

EXAMINERS

1. Dr. Mayushakti
12/5/22

2. Dr. Nishi Ann
12/5/22

Dr. E. Julie
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Dr. Nishi Ann
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DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
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CALICUT - 673 009



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CALICUT - 9



REPORT OF STUDY TOUR & FIELD TRIPS

Name..... NAJIHA THASNEEM N

I certify that this is the bonafide record of field work done by the
candidate..... NAJIHA THASNEEM N

with Reg.No..... PWATSZ0083..... during the years... 2019-22

EXAMINERS

1. [Signature]
12/5/22

Dr. Manjusha K

2. [Signature]
12/5/22

Smrithi. K

STAFF IN CHARGE

Subha
Dr. Subha Babu Jayaprakash

HEAD OF DEPT

[Signature]
DR. WISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT - 673 009



PROVIDENCE WOMEN'S COLLEGE CALICUT - 9



REPORT OF STUDY TOUR & FIELD TRIPS

Name NAMITHA METILDA ROZARIO

I certify that this is the bonafide record of field work done by the candidate NAMITHA METILDA ROZARIO

with Reg.No. PWATS 20034 during the years 2019-22

EXAMINERS

1.

2. [Signature]
12/15/22

Smrithi-k

Subha

STAFF IN CHARGE

Dr. Subha Babu Jayapsakash

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[Signature]
DR. NISHI ANN
ASST. PROFESSOR & HEAD
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CALICUT - 9



PROVIDENCE WOMEN'S COLLEGE
CALICUT - 9



REPORT OF STUDY TOUR & FIELD TRIPS

Name..... NAVEENA . E

I certify that this is the bonafide record of field work done by the
candidate..... NAVEENA . E

with Reg.No..... PWATSZ0014 during the years..... 2019 - 22

EXAMINERS

1. [Signature]
12/5/22

2. [Signature]
12/15/22

[Signature]



Subha
STAFF IN CHARGE

Dr. Subha Babu Jayaprakash

[Signature]
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ASST. PROFESSOR & HEAD
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PROVIDENCE WOMEN'S COLLEGE CALICUT - 9



REPORT OF STUDY TOUR & FIELD TRIPS

Name..... NAVYA . S

I certify that this is the bonafide record of field work done by the
candidate..... NAVYA . S

with Reg.No. PWATS Z0035 during the years..... 2019 - 22

EXAMINERS

1. [Signature] / 12-5-22 Dr Mangruba / 25
2. [Signature] / 12/5/22 Smiti. K

STAFF IN CHARGE

Subha

Dr. Subha Babu Jayaprakash

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[Signature]
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REPORT OF STUDY TOUR & FIELD TRIPS

Name NEHILA PARVIN K.P

I certify that this is the bonafide record of field work done by the candidate NEHILA PARVIN K.P

with Reg.No. PWATSZ0015 during the years 2019 - 2022

EXAMINERS

1. [Signature] 12/5/22 Dr. Manjushakti

2. [Signature] 12/16/22 [Signature]

[Signature]
Dr. SANGEETHA G. KAIMAL
Assistant Professor
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CALICUT - 9



REPORT OF STUDY TOUR & FIELD TRIPS

Name... NOURA KONDASAN PARAMBIL

I certify that this is the bonafide record of field work done by the candidate... NOURA KONDASAN PARAMBIL

with Reg.No. PW.ATS.20016 during the years... 2019-22

EXAMINERS

1. Dr. Marysha.K.T.

2. Smathi.K

Dr. F. Julia
STAFF IN CHARGE
Assistant Professor
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Calicut - 673 009

Dr. Nishi Ann
HEAD OF DEPT.
DR. NISHI ANN
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Providence Women's College

Re-Accredited with A+ Grade by NAAC

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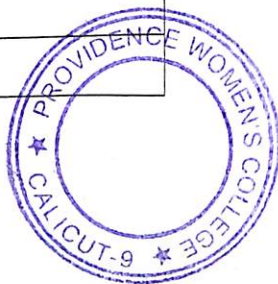
CARMEL HILL
MALAPARAMBA (P.O.)
CALICUT - 673 009

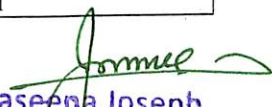
CERTIFICATE

This is to certify that the following students of II year B.Sc. Zoology completed their project/ fieldwork as a part of their curriculum during the academic year 2021-22

ADITHYA V K
AISWARYA M K
AJANYA K K
AMEENA JABEEN K K
AMRUTHA K
ANAMIKA M K
ANANYA P
ANCSY ALEXANDER
ANCY MARIYA ALEX
ANEESHA K V
ANUMOL
ANUSHA O
ANUSREE T
ARCHANA P A
ARZIN RIYA K
ASWATHI U K
BINCY ELIZABETH P J
CHRISTEENA T SIMON
DARSANA E K
GAYATHRI K
HALKA HARISH

HISANA SHERIN M K
JALEETTA JAYSON
JYOTHIRMAYI C H
KRISHNAPRIYA S
NANDHANA K E
NEHA S
NITHYA P M
NITHYARAJ O M
PARVANA S NAIR
RINSHA FATHIMA M
SAFA FATHIMA A P
SAFFANA MAHAMOOD
SANDRA C
SANOORA
SHREYA SREEKUMAR
SHRUTIKA R
SONA BOBAN
TEENA MARY BAIJU
VANDANA P
VIDYA LAKSHMI T




Dr. Sr. Jaseena Joseph
Principal (PEM 470173)
Providence Women's College
Kozhikode - 673 009

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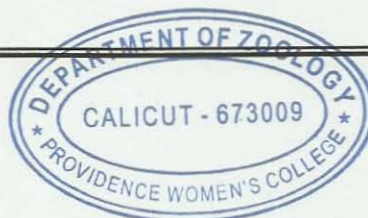
DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **ADITHYA V.K**.....
register No **PWAUSZO.007**..... during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAIMAL
Assistant Professor
Teacher in Charge
Zoology
Providence Women's College
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Nishann
Head of Department.
DR. NISHTANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009



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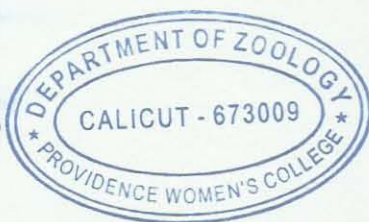
Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate AISWARYA MK.....
register No PWAUSZ0016 during the year 2021-22.

Sangeetha

Dr. SANGEETHA G. KAMAL
Assistant Professor
Department of Zoology
Providence Women's College
Malaparamba P.O., Calicut - 9

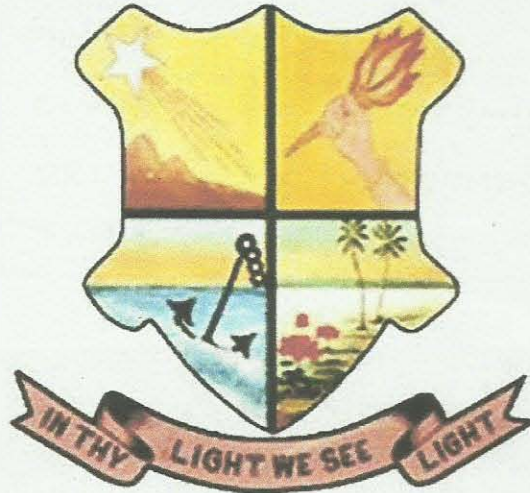
Teacher-in-Charge



Nishi Ann

Head of Department.
DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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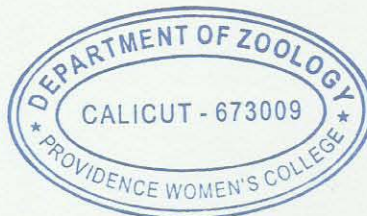


DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **AJANYA K. K.**.....
register No **PWAUSZ0017**..... during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAIMAL
Assistant Professor
Teacher in Charge
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Nishi Ann
Head of Department.
DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**

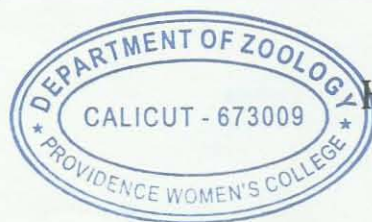


DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

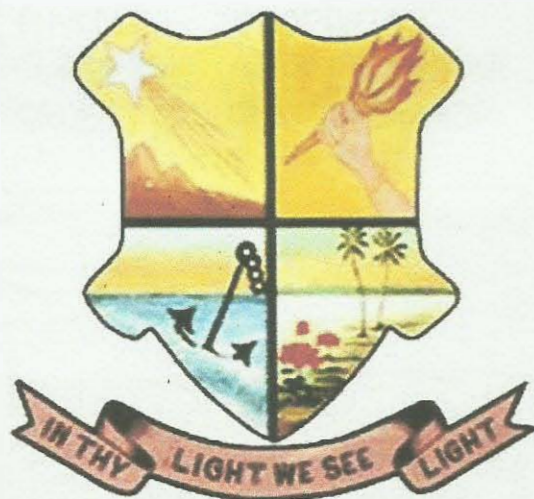
I hereby certify that this is a bonafide record of the work done by
the candidate **AMEENA JABEEN K.K**
register No .PWAUSZ0018..... during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KADAL
Assistant Professor
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Nishi Ann
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DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
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CALICUT-673009.**



DEPARTMENT OF ZOOLOGY

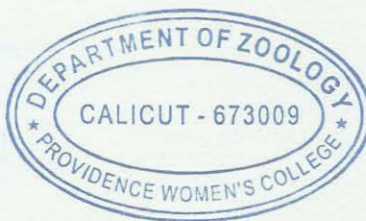
Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate AMRUTHA K.
register No PWAUS20019.... during the year 2021-22.

Sangeetha

Dr. SANGEETHA G. KAIMAL
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Department of Zoology
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Malaparamba P.O., Calicut - 9

Teacher in Charge



Nislin Ann

Head of Department.
DR. NISLIN ANN

ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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**PROVIDENCE WOMEN'S COLLEGE,
CALICUT-673009.**



DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **ANANYA.P.**
register No P.WAUSZO.021..... during the year 2021-22.

Sangeetha

Dr. SANGEETHA G. KAMAL
Assistant Professor
Teacher in Charge
Providence Women's College
Malaparamba P.O., Calicut - 9



Nisitha

Head of Department.

DR. NISITH ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**

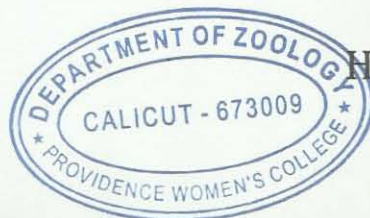


DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **ANCSY ALEXANDER**
register No **PWAUSZ0022** during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAIMAL
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Teacher in Charge
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Malaparamba P.O., Calicut - 9



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DR. NISHI ANN
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DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**



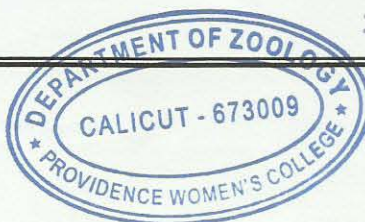
DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **ANCI MARIYA ALEX**.....
register No **PWAUSZ0001**. during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAMAL
Assistant Professor
Teacher in Charge
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Malampuzha P.O., Calicut - 9

Nishi Ann
Head of Department.
DR. NISHI ANN
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DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT - 673 009



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CALICUT-673009.**



DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **ANEE.S.H.A.:K.V.**
register No ..P.W.A.U.S.Z.O.00.8..... during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAIMAL
Assistant Professor
Teacher-in-Charge
Department of Zoology
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A. Swain
Head of Department.
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**

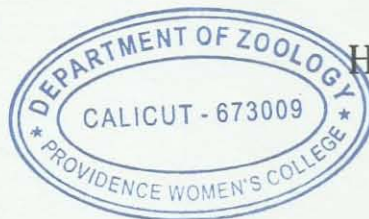


DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **ANAMIKA M.K**.....
register No **PWAUSZ0020**..... during the year 2021-22.

Sangeetha
Dr. SANGEBTHA G. KADMAL
Assistant Professor
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Malaparamba P.O., Calicut - 9



Shyam
Head of Department.
DR. SHYAM ANN
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DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

**PROVIDENCE WOMEN'S COLLEGE,
CALICUT-673009.**

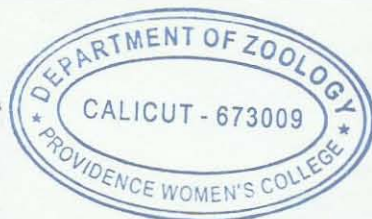


DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **ANU.MOL**
register No **P.W.AUSZOO23**.. during the year 2021-22.

Teacher in Charge.
Assistant Professor
Department of Zoology
Providence Women's College
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Head of Department.
DR. IRSHAD ANN
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DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**

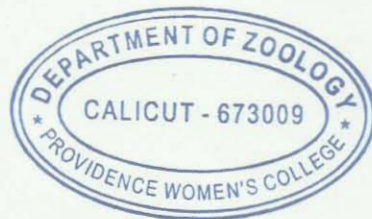


DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **ANUSHA O**
register No ...PWIAUS.ZO.024..... during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAIMAL
Teacher in Charge
Department of Zoology
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Nishi Ann
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DR. NISHI ANN
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DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**

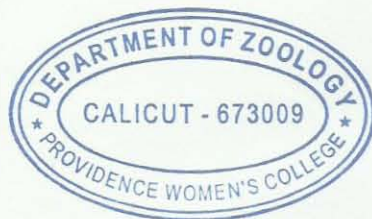


DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate ... **ANUSREE.T**
register No **PWAUSZODR5** during the year 2021-22.

Sangeetha
DR. SANGEETHA G. KAIMAL
Assistant Professor
Teacher in Charge,
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Nishi Ann
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DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT - 673 009

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CALICUT-673009.**



DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **ARCHANA PA**
register No ~~PWAUSZ0026~~... during the year 2021-22.

Teacher-in Charge.
Dr. E. Julie
Assistant Professor
Department of Zoology
Providence Women's College
Calicut - 673 009

Head of Department.
DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**

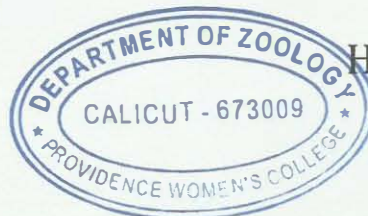


DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

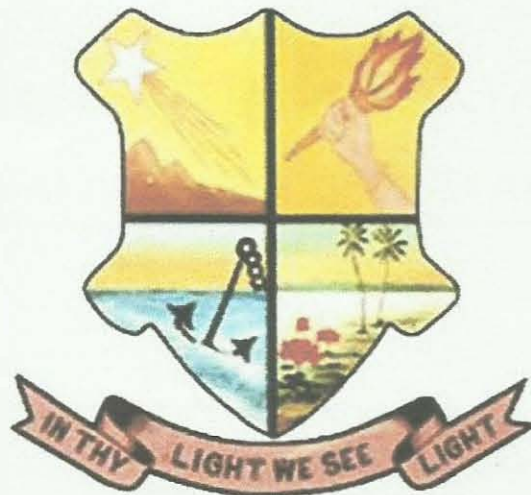
I hereby certify that this is a bonafide record of the work done by
the candidate **ARZIN RIYA K**.....
register No **P.W.A.U.S.Z.0009** during the year 2021-22.

Sangeetha
Dr. SANGEETHA G KAIMAL
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Teacher-in-Charge.
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Providence Women's College
Malaparamba P.O., Calicut - 9



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DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT - 673 009

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CALICUT-673009.**



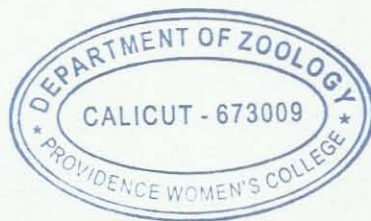
DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **ASWATHI. V.K.**
register No **P.W.A.U.S.Z.O.O.27.** during the year 2021-22.

Sangeetha

Teacher-in Charge.
Dr. SANGEETHA G. KAIMAL
Assistant Professor
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Providence Women's College
Malaparamba P.O., Calicut - 9



Nishi Ann

Head of Department.
DR. NISHI ANN
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DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**

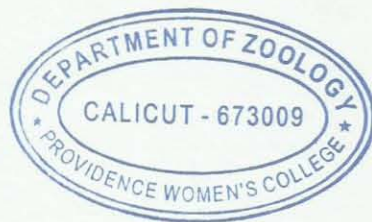


DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **BINCY ELIZABETH PJ**
register No **PWAUS20028** during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAIMAL
Assistant Professor
Teacher in Charge
Department of Zoology
Providence Women's College
Malaparamba P.O., Calicut - 9



Vishu Ann
Head of Department.
DR. VISHU ANN
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DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**



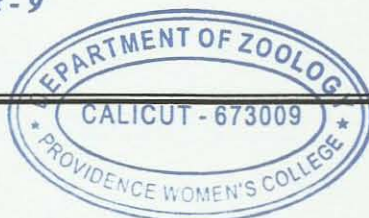
DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **CHRISTEENA T SIMON**.....
register No **PWNAUS.ZO.002**... during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAIMAL
Teacher in Charge
Department of Zoology
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Malaparamba P.O., Calicut - 9

Nishi Ann
Head of Department.
DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009




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CALICUT-673009.**

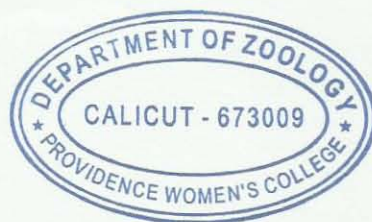


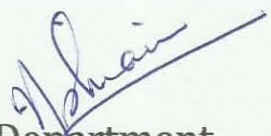
DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
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I hereby certify that this is a bonafide record of the work done by
the candidate **DARSHANA E.K**.....
register No PWAUS 20029..... during the year 2021-22.


Dr. E. Julie
Teacher in Charge.
Department of Zoology
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Head of Department.
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DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**



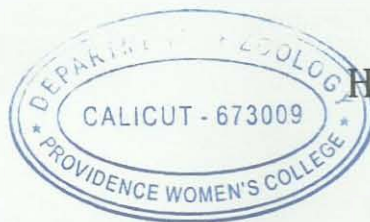
DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **GAYATHRI . K.**.....
register No ..PWAUSZ0030 during the year 2021-22.

Teacher-in Charge.

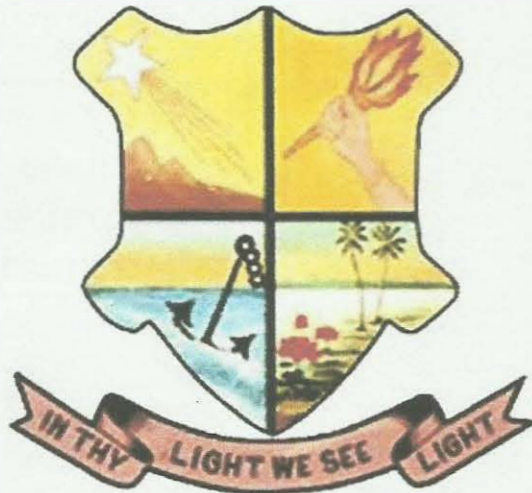
Dr. E. Julie
Assistant Professor
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Providence Women's College
Calicut - 673 009



Head of Department.

DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
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CALICUT-673009.**



DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **.HALKA.HARISH**.....
register No P.W.A.U.S.Z.O.031!..... during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAIMAL
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Teacher in Charge
Department of Zoology
Providence Women's College
Malaparamba P.O., Calicut - 9



Nishi Ann
Head of Department.
DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**



DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

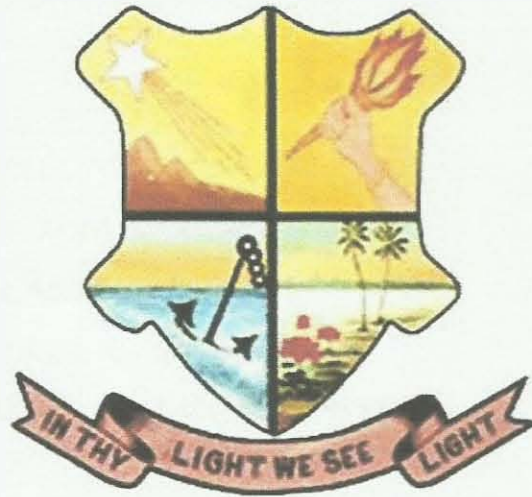
I hereby certify that this is a bonafide record of the work done by
the candidate ... **HISANA SHERIN MK**
register No PWAUS20032 during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAIMAL
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Asst. Professor
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Providence Women's College
Malaparamba P.O., Calicut - 9



Nishi Ann
Head of Department.
DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**



DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **JALEETTA JAYSON**.....
register No ..P.WAUSZQ033... during the year 2021-22.

Teacher-in Charge
Assistant Professor
Department of Zoology
Providence Women's College
Calicut - 673 009



Head of Department
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
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CALICUT- 673 009


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CALICUT-673009.**



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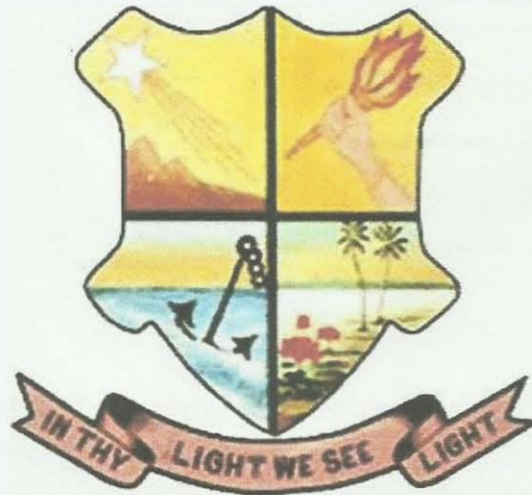
Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **JYOTHIRMAYI-CH**
register No ...~~PWAUSZOD34~~..... during the year 2021-22.


Dr. E. Julie
Assistant Professor
Department of Zoology
Providence Women's College
Calicut 673 009
Teacher-in-Charge.


Head of Department.

**PROVIDENCE WOMEN'S COLLEGE,
CALICUT-673009.**



DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

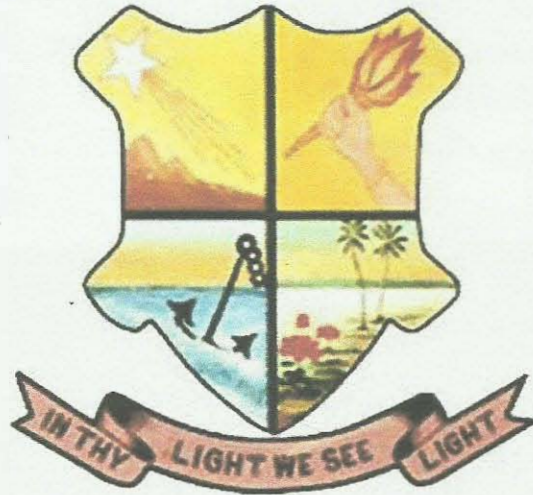
I hereby certify that this is a bonafide record of the work done by
the candidate**KRISHNAPRIYA.S**.....
register No **.PWAUSZOO35**... during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAIMAL
Assistant Professor
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Providence Women's College
Calicut - 9



Nishann
Head of Department.
DR. NISHANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**

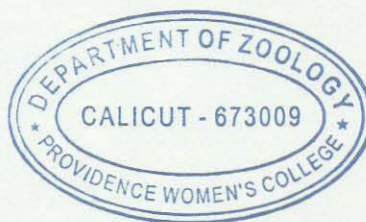


DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV-Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate NANDHANA K.E
register No PWAUSZ0003 during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAIMAL
Assistant Professor
Teacher in Charge
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Malaparamba P.O., Calicut - 9



Nishi Ann
Head of Department.
DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009


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CALICUT-673009.**

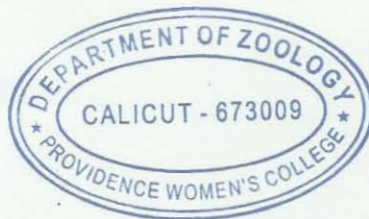


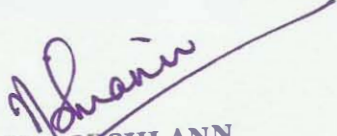
DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **NEHA-S**.....
register No **PWAUSZ0036**..... during the year 2021-22.


Dr. E. Julie
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CALICUT- 673 009

**PROVIDENCE WOMEN'S COLLEGE,
CALICUT-673009.**



DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate NITHYA P.M
register No PWPAUS20037 during the year 2021-22.

Teacher-in Charge.
Assistant Professor
Department of Zoology
Providence Women's College
Calicut - 673 009

Head of Department.

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CALICUT-673009.**



DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

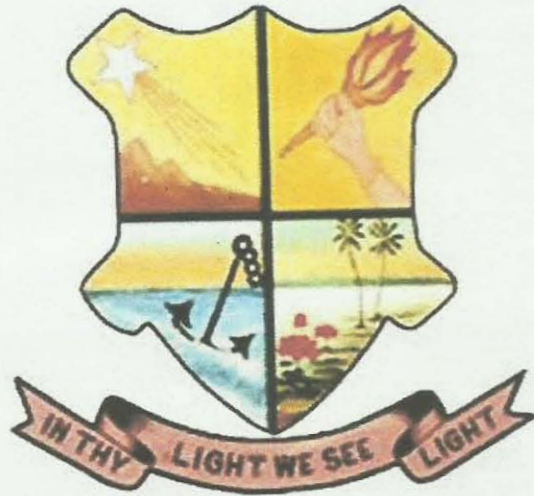
I hereby certify that this is a bonafide record of the work done by
the candidate **NICHYARAJ.O.M.**.....
register No **PWAVSZOD.38**... during the year 2021-22.

Teacher-in Charge.
Dr. E. Julie
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DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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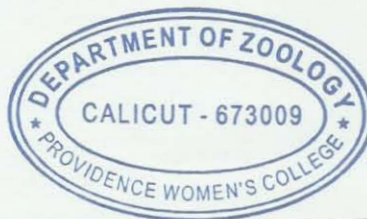


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Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

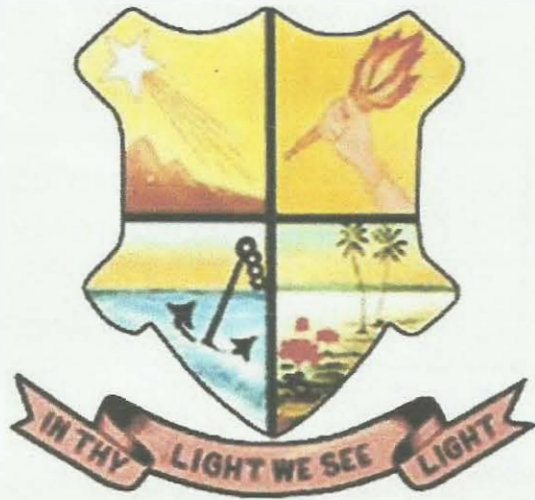
I hereby certify that this is a bonafide record of the work done by
the candidate **PARVANA S NAIR**.....
register No **PWAUSZO011**..... during the year 2021-22.

Sangretha
Dr. SANGRETHA G KAMAL
Assistant Professor
Teacher in Charge
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Providence Women's College
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Head of Department.
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DEPARTMENT OF ZOOLOGY
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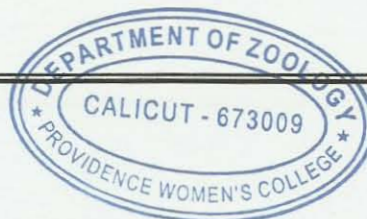
DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate RINSHA FATHIMA-M.....
register No PWAUSZ0012..... during the year 2021-22.

Gangetha
Teacher in Charge
DR. GANGEETHA K KUMAL
Assistant Professor
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Providence Women's College
Malaparamba P.O., Calicut - 9

Nishi Ann
Head of Department.
DR. NISHI ANN
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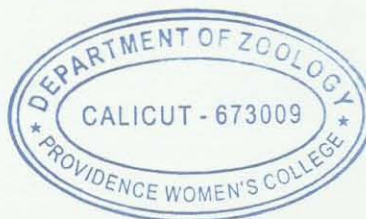


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Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **SAFA FATHIMA A.P**.....
register No **PWAVS.ZO.D.13**..... during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAIMAL
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Assistant Professor
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Malaparamba P.O., Calicut - 9



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Head of Department.
DR. NISHI ANN
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PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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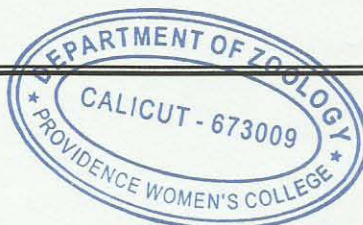
DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **SAFFANA MAKAMOOD**.....
register No **PWAVS70004**..... during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAIMAL
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Nishann
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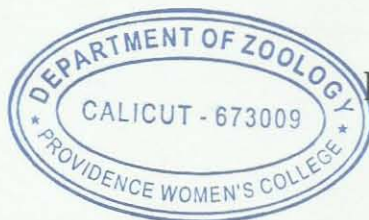
DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate SANDRA::C.....
register No P.WAUS.ZOO39..... during the year 2021-22.

Sangeetha

Dr. SANGEBETHA G. KAIMAL
Assistant Professor
Teacher in Charge
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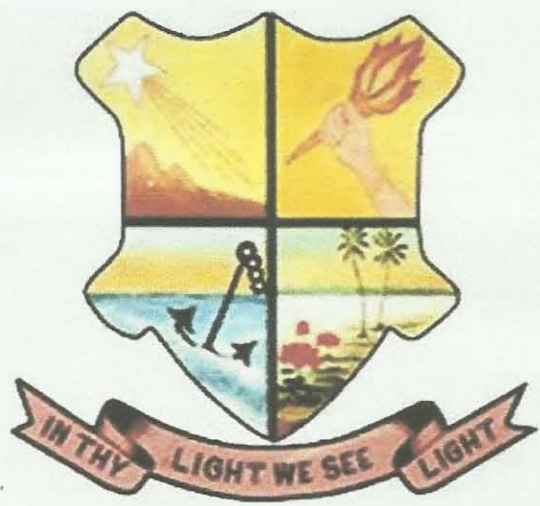


Nishi Ann

Head of Department.

DR. NISHI ANN
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DEPARTMENT OF ZOOLOGY
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CALICUT- 673 009


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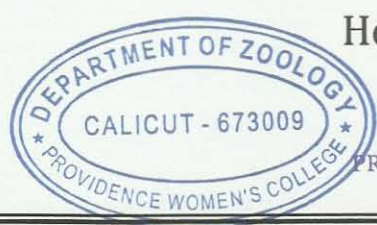


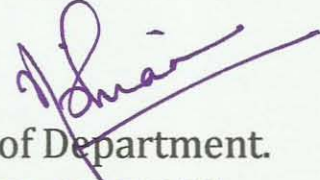
DEPARTMENT OF ZOOLOGY

*Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology*

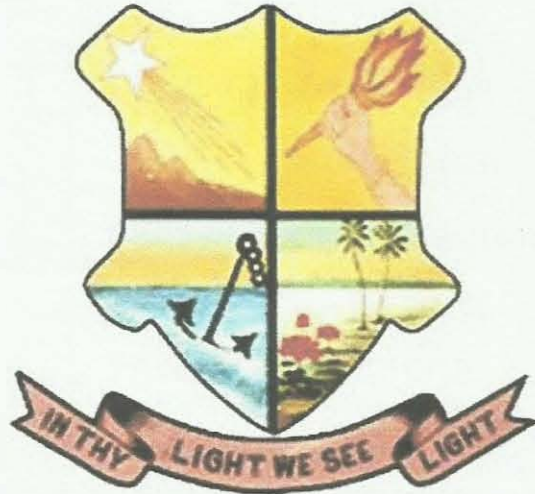
I hereby certify that this is a bonafide record of the work done by
the candidate **SA NOORIA**
register No *PWZ005Z0014*... during the year 2021-22.


Teacher in Charge.
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CALICUT- 673 009

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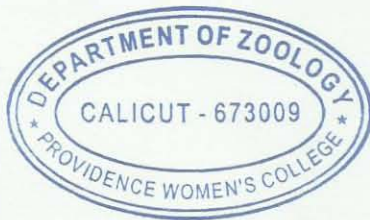


DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **SHREYA PREEKUMAR**
register No ...~~1W.A.U.SZ.004.0~~... during the year 2021-22.

Teacher-in Charge.
Dr. E. Julie
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Head of Department.
DR. NISHI ANN
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DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009


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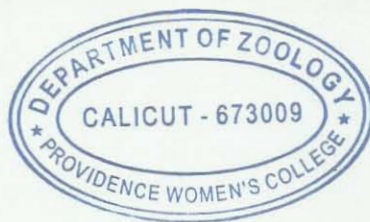



DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **SONA BOBAN**
register No PWAUS.ZOO.4.1..... during the year 2021-22.


Dr. E. Julie
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Providence Women's College
Calicut - 673 009




Head of Department.
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PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**



DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate**SHRUTIKA R.**.....
register No **PW.AUS.ZO.005**.... during the year 2021-22.

Sangeetha
DR. SANGEETHA G. KAIMAL
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Teacher in Charge
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Nishiann
Head of Department.
DR. NISHI ANN
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DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009



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CALICUT-673009.**



DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **TEENAMARY BAJU**.....
register No P.WAUSZD.042.... during the year 2021-22.

Sangeetha
Dr. SANGEETHA G. KAIMAL
Assistant Professor
Department of Zoology
Providence Women's College
Malaparamba P.O., Calicut - 9



Nishi Ann
Head of Department.
DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT - 673 009

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CALICUT-673009.**

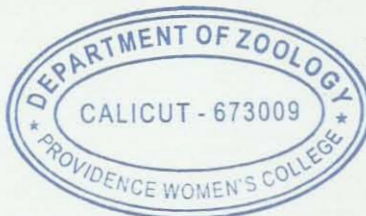



DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

I hereby certify that this is a bonafide record of the work done by
the candidate **VANDANA . P**
register No PWAUSZ0015 during the year 2021-22.


Dr. E. Julie
Assistant Professor
Department of Zoology
Teacher in Charge
Providence Women's College
Calicut - 673 009




Head of Department.
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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CALICUT-673009.**



DEPARTMENT OF ZOOLOGY

Local Biodiversity Record: Chordata
III & IV Semester B. Sc Zoology

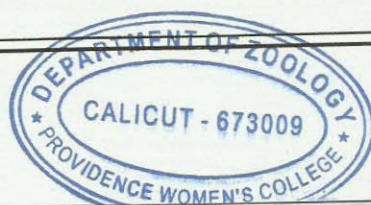
I hereby certify that this is a bonafide record of the work done by
the candidate **VIDYA LAKSHMI T**.....
register No **PWAUSZ0006**..... during the year 2021-22.

Sangeetha

Dr. SANGEETHA G. KAIMAL
Assistant Professor
~~Teacher in Charge~~
Providence Women's College
Malaparamba P.O., Calicut - 9

Nishi Ann

Head of Department.
DR. NISHI ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
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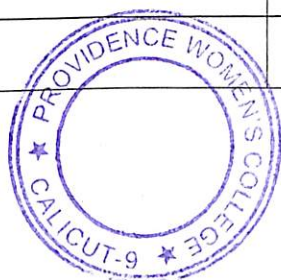


CARMEL HILL
MALAPARAMBA (P.O.)
CALICUT - 673 009

CERTIFICATE

This is to certify that the following students of I year B.Sc. Zoology completed their project/ fieldwork as a part of their curriculum during the academic year 2021-22

AISHA FATHIMA	GOPIKA K
ALKA K P	GOPIKA M
ANDREA D CRUZ	GOURI V P
ARUNDHATI NAIR M M	HAMDA HARSHAD N
ASWANA B R	HANIYA SHAJI
AVANTHIKA K M	LAKSHMI E
AVANTHIKA VIVEK	LIYA FATHIMA K V
DAHEENA FATHIMA METHAL BAPPAYIL	MEERA V
DHANA V E	MERIN SEBASTIAN
DIYA VINOD	MUBASHIRA C
FATHIMA NEHA M K	P V JAS KHALEEKHA
FATHIMA THAHSIN P K	RADHIKA N
FATHIMA ZUHA P K	SAJITHA M S
FIDA PARVEEN	SIVANI R S
FIZA PARVEEN N P	SIVAPRIYA V V
GAYATHRY K	VUFILA UMAR T P



Jimmie
Dr. Sr. Jaseena Joseph
Principal (PEN 470173)
Providence Women's College
Kozhikode - 673

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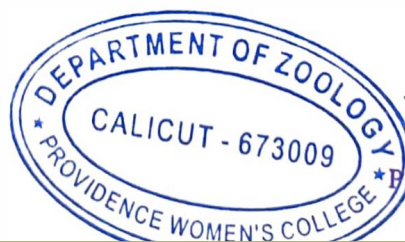


DEPARTMENT OF ZOOLOGY
Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **DHANA V. E**..... Register No. **PWAVSZ0019** during the year 2021-22.

Sangeetha

Dr. SANGEETHA G. KAIMAL
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Teacher-in-Charge



Nishann

DR. NISHANN
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CALICUT - 673009

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CALICUT-673009.**



DEPARTMENT OF ZOOLOGY
Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **FATHIMA THAHSEEN P K** Register No. **PWAVSZ0020** during the year 2021-22.

Sangeetha

Dr. SANGEETHA G. KAIMAL
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Teacher-in-Charge



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PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009
Head of Department

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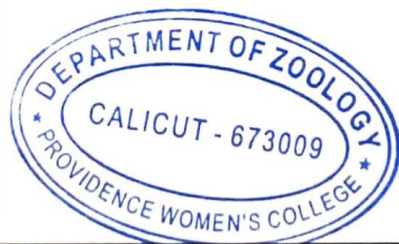
DEPARTMENT OF ZOOLOGY
Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **FATHIMA ZUHA.PK** Register No. **PWAVSZ0021** during the year 2021-22.

Sangeetha

Nishian

Dr. SANGEETHA G. KAIMAL
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Malaparamba P.O., Calicut - 9



DR. NISHIAN
Head of Department
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

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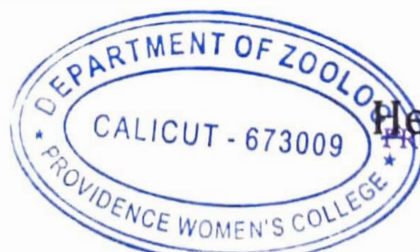


DEPARTMENT OF ZOOLOGY
Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **GAYATHRY K** Register No. **PWAVSZ0022** during the year 2021-22.

Sangeetha

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Assistant Professor
Department of Zoology
Teacher in Charge
Providence Women's College
Malaparamba P.O., Calicut - 9



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Head of Department
Department of Zoology
PROVIDENCE WOMEN'S COLLEGE
CALICUT - 673009

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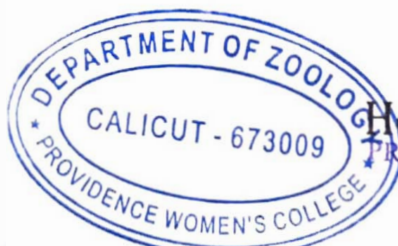


DEPARTMENT OF ZOOLOGY
Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate Radhika : N Register No... PWAVSZO.030 during the year 2021-22.

Sangeetha

Dr. SANGEETHA G. KAIMAL
Assistant Professor
Teacher-in-Charge.
Department of Zoology
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Paramba P.O., Calicut - 9



Nishann

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CALICUT - 673 009
Head of Department.

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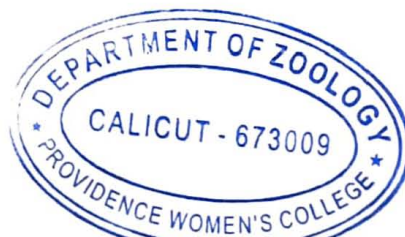


DEPARTMENT OF ZOOLOGY
Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate ...**SAJITHA.M.S**..... Register No..**PWAVSZ0031**... during the year 2021-22.

Sangeetha

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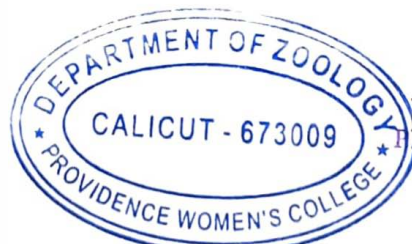


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Local Biodiversity Register : Non-Chordata
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I hereby certify that this is a bonafide project work done by the candidateSIVANI.R.S..... Register No.....PHI/AVSZ0032..... during the year 2021-22.

Sangeetha

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CALICUT- 673 009

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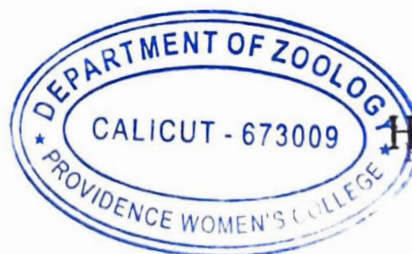


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Local Biodiversity Register : Non-Chordata
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I hereby certify that this is a bonafide project work done by the candidate ...**SIVAPRIYA.V.V.**..... Register No...**PWAVSZ0033** during the year 2021-22.

Sangeetha

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PROVIDENCE WOMEN'S COLLEGE
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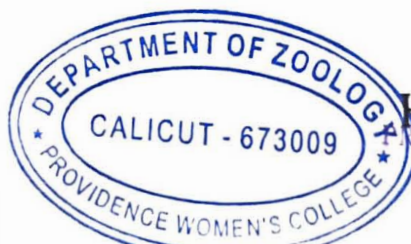


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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **AVANTHIKA VIVEK**..... Register No. **PWAVS20011**..... during the year 2021-22.

Sangeetha

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CALICUT - 673 009
Head of Department.

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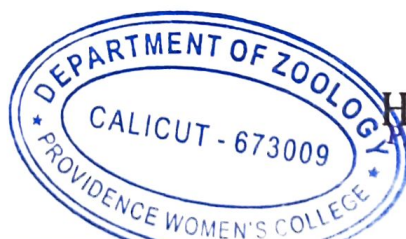


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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate DIYA VINOD..... Register No. PWAVSZ0012..... during the year 2021-22.

Sangeetha

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CALICUT-673009.**

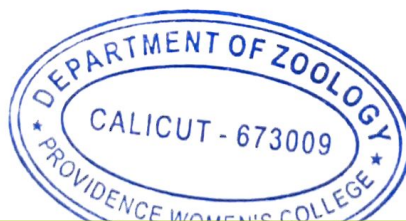


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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate FATHIMANEHA M.K. Register No. PWAVS70013 during the year 2021-22.

Sangeetha

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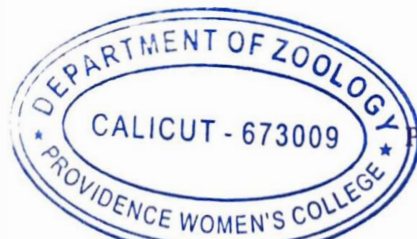


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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **FIDA PARVEEN**..... Register No. **PWAVSZ0014** during the year 2021-22.

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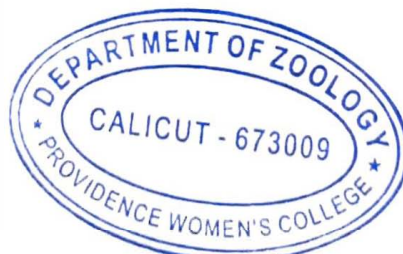


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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **GOPIKA.M** Register No. **PWAVSZ0015** during the year 2021-22.

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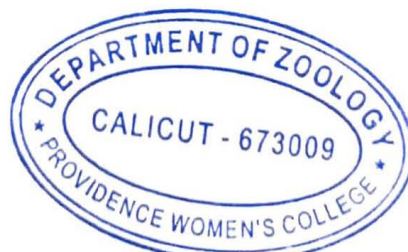


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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **LAKSHMI-E**..... Register No. **PWAYSZO016** during the year 2021-22.

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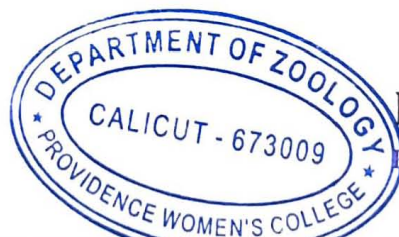


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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **VUFILA.UMAR.T.P.....** Register No..PWAVZ0017..... during the year 2021-22.

Sangeetha

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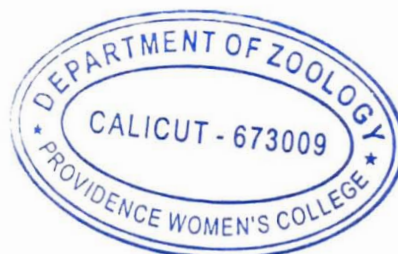


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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **Ahka-K.P**..... Register No. **PWAVSZ0018** during the year 2021-22.

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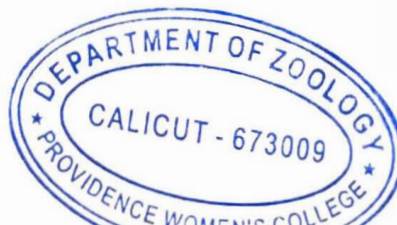
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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate**GOPIKA.K**..... Register No. **PWAVSZ0023** during the year 2021-22.

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PROVIDENCE WOMEN'S COLLEGE

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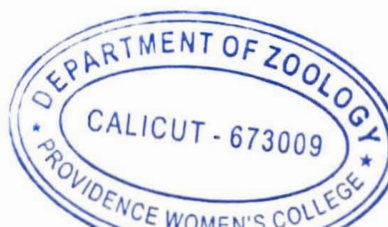


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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **HANIYA SHAJI**..... Register No. **PWAVSZ0024** during the year 2021-22.

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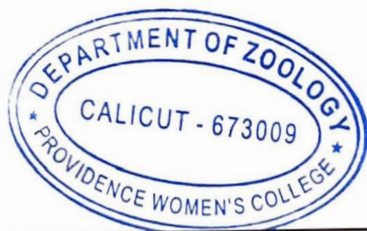
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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate LIYA FATHIMA K.V..... Register No. PWAVSZ0025 during the year 2021-22.


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CALICUT- 673 009
Head of Department

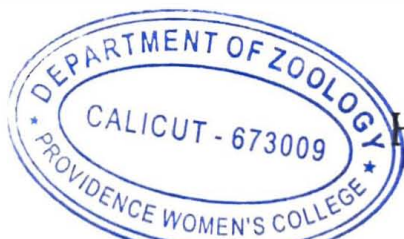
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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **MEERA V.** Register No. **PWAVSZ0026** during the year 2021-22.

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CALICUT- 673 009
Head of Department.

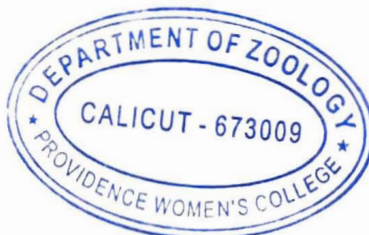
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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **..AVANTHIKA..K.M.....** Register No. **P.WAVSZ0010.....** during the year 2021-22.

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I hereby certify that this is a bonafide project work done by the candidate **ASWANA B R** Register No. **PWAVSZ0009** during the year 2021-22.

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CALICUT- 673 009

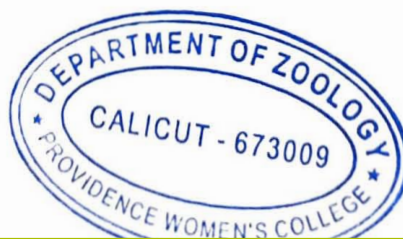
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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **AISHA FATHIMA**..... Register No. **PWAVSZO008** during the year 2021-22.

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PROVIDENCE WOMEN'S COLLEGE
CALICUT - 673 009

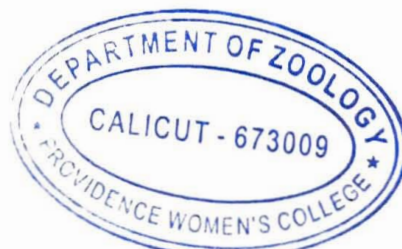
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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **HAMDA HARSHAD N**..... Register No.....PWAVSZ0007 during the year 2021-22.


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PROVIDENCE WOMEN'S COLLEGE
CALICUT - 673 009

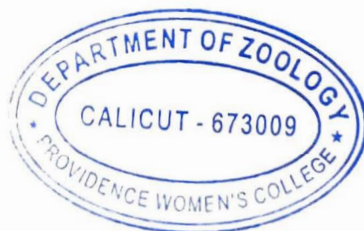
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CALICUT-673009.**



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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate**GJOURI.V.P**..... Register No.....**PWAVSZ0006** during the year 2021-22.

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Head of Department
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PROVIDENCE WOMEN'S COLLEGE
CALICUT - 673 009

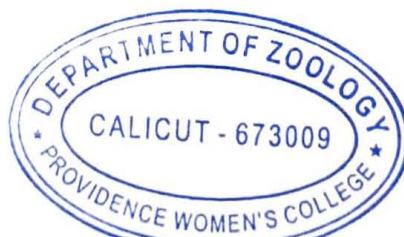
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CALICUT-673009.**



DEPARTMENT OF ZOOLOGY
Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **FIZA PARYEEN:N:P**..... Register No.....**PWAVSZ0005**..... during the year 2021-22.

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PROVIDENCE WOMEN'S COLLEGE
CALICUT

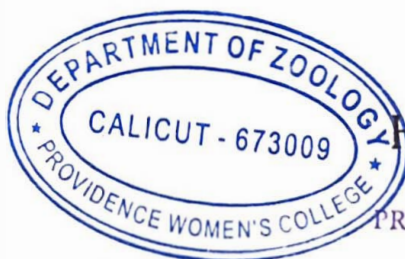
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CALICUT-673009.**



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Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **DAHEENA FATHIMA M.B** Register No...PWAYSZ004 during the year 2021-22.

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PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009

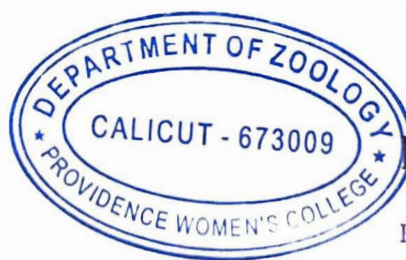
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CALICUT-673009.**



DEPARTMENT OF ZOOLOGY
Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **ARUNDHATI NAIR M.M.** Register No. PWAVSZ0003 during the year 2021-22.

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CALICUT-673009.**



DEPARTMENT OF ZOOLOGY
Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **ANDREA D' CRUZ**..... Register No. **PWAVSZ0001**..... during the year 2021-22.

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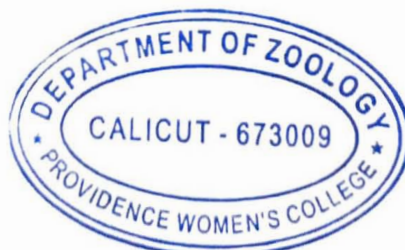
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DEPARTMENT OF ZOOLOGY
Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate MERIN SEBASTIAN..... Register No. P.WAVSZ0027..... during the year 2021-22.

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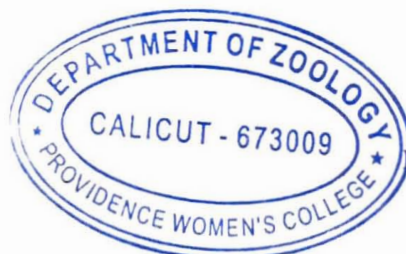
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CALICUT-673009.**




DEPARTMENT OF ZOOLOGY
Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **MUBASHIRA-C**..... Register No. **PWAYSZ0028** during the year 2021-22.


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CALICUT - 673 009

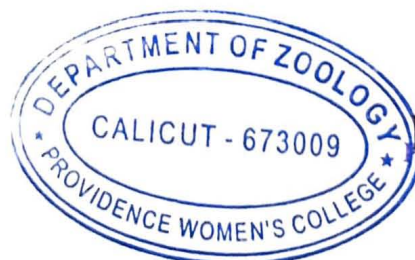
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DEPARTMENT OF ZOOLOGY
Local Biodiversity Register : Non-Chordata
I & II Semester B. Sc Zoology

I hereby certify that this is a bonafide project work done by the candidate **P.V. JASKHALEEKHA....** Register No. **PWAYSZ0029....** during the year 2021-22.

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