

CERTIFICATE

This is to certify that Himanga Das bearing Roll No – US-201-130-0030 and GU Registration no -21016625 of 2023-2024 has carried out her dissertation work titled “Traditonal fishing gears and crafts used by people of some villages of Barpeta,Assam.” He has done the work sincerely and worked hard for preparing her dissertation. He has fulfilled all the requirements laid down in the regulations by Bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of his own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by him with sincere and persistent efforts that he had made in course of his investigation. Above all, the dissertation work makes a genuine contribution to the field of further scientific investigation. I wish him grand success in future academic career.



Signature

Prof. Runu Swargiary (Supervisor)

Dr. Chiranjit Baruah (Co- Supervisor)

Department of Zoology

Madhab Choudhury College, Barpeta

CERTIFICATE

This is to certify that Sani Basumatary bearing Roll No – US-211-130-0096 and GU Registration no - 21016694 has carried out his dissertation work title "STUDY OF DIVERSITY OF ODONATA IN A FEW PLACES OF BARPETA TOWN" he has done the work sincerely and work hard for preparing his dissertation. He has fulfilled all the requirements laid down in the regulations my bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of his own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by him with sincere and persistent efforts that he had made in course of his investigation above all, the dissertation work maker a genuine contribution to the field of further scientific investigation. I wish him grand success in future academic career.



Signature of supervisor

Dr. Chiranjit Baruah

Assistant Professor

Department of Zoology

Madhab Choudhury College, Barpeta

CERTIFICATE

This is to certify that Debashrita Ojah bearing Roll No. US-211-130-0014 and G.U. Registration No. 21016610 has carried out her dissertation work titled "Toxicity Effect Of Chlorpyrifos On *Monopterus albus*" under my supervision. She has done the work since rely and worked hard for preparing her dissertation. She has fulfilled all the requirements laid down in the regulations of my Bachelor of Science (B.Sc) examination, Madhab Choudhary College, Barpeta.

The dissertation is the result of her own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by her with sincere and persistent efforts that she had made in course of her investigation. Above all, the dissertation work makes a genuine contribution to the field of further scientific investigation. I wish her grand success in future academic career.

Daisy Brahma
Signature of Supervisor

Daisy Brahma, M.sc

Madhab Choudhary College ,Barpeta

CERTIFICATE

This is to certify that Pallab Das bearing Roll No - US-211-130-29 and GU Registration no - 22016677 has carried out her dissertation work title "STUDY OF AQUATIC INSECTS OF SOME PONDS OF BARPETA" she has done the work sincerely and work hard for preparing her dissertation she has fulfilled all the requirements laid down in the regulations my bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of his own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by him with sincere and persistent efforts that he had made in course of his investigation above all, the dissertation work maker a genuine contribution to the field of further scientific investigation. I wish her grand success in future academic career.

Signature of Head of the department

Dr. Chiranjit Baruah

Department of zoology

CERTIFICATE

This is to certify that Jabedur Rahman bearing Roll No: US-211-130-0034 and GU Registration No: 21016629 of 2023-2024 has carried out her dissertation work title "A STUDY ON THE BREEDING BIOLOGY OF SCALY BREASTED MUNIA". He has done the work sincerely and work hard for preparing his dissertation. He has fulfilled all the requirements laid down in the regulations my bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of his own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by her with sincere and persistent efforts. This dissertation work make a genuine contribution to the field of further scientific investigation. I wish him grand success in future academic career.

Jaydev Mandal
10/08/24

(Signature of supervisor)

Dr. Jaydev Mandal

Assistant Professor

Department of Zoology

Madhab Choudhury College, Barpeta

CERTIFICATE

This is to certify that Pranami Pathak bearing Roll No : US-211-130-0080 and GU Registration No: 21016678 of 2023-2024 has carried out her dissertation work title "FLYWAYS OF BIRDS: INVISIBLE YET EXISTING" . She has done the work sincerely and work hard for preparing her dissertation. She has fulfilled all the requirements laid down in the regulations my bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of her own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by her with sincere and persistent efforts. This dissertation work make a genuine contribution to the field of further scientific investigation. I wish her grand success in future academic career.

Jaydev Mandal
10/06/24

Dr. Jaydev Mandal

Assistant Professor

Department of Zoology

CERTIFICATE

This is to certify that Hirusani Nath bearing Roll No - US-211--130-0031 and GU Registration no - 21016626 has carried out her dissertation work title "Study of essential oils present in three cultivars of lemon of Assam, viz., 'Kaji Nemu' (*Citrus limon*), 'Gul Nemu' (*Citrus jambhiri*) and 'Elalchi Nemu' (*Citrus species*)" she has done the work sincerely and work hard for preparing her dissertation she has fulfilled all the requirements laid down in the regulations my bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of her own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by him with sincere and persistent efforts that she had made in course of his investigation above all, the dissertation work maker a genuine contribution to the field of further scientific investigation. I wish her grand success in future academic career.

Signature of supervisor



Dr. Chiranjit Baruah

Assistant Professor

Department of Zoology

Madhab Choudhury College, Barpeta

CERTIFICATE

This is to certify that ShireenSharifa Nori bearing Roll No –US-211-130-0103 and GU Registration no -21016702 has carried out her dissertation work title “STUDY OF AQUATIC INSECTS IN POND HABITAT OF BARPETA”. Shehas done the work sincerely and work hard for preparing her dissertation she has fulfilled all the requirements laid down in the regulations my bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of her own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by her with sincere and persistent efforts that she had made in course of her investigation above all, the dissertation work maker a genuine contribution to the field of further scientific investigation. I wish her grand success in future academic career.



Signature of supervisor

Prof. Runu Swargiary Dr. Chiranjit Baruah

Department of Zoology

Madhab Choudhury College, Barpeta

CERTIFICATE

This is to certify that AFRUZA WAHID bearing Roll No – US-211-130-0176 and GU Registration no -21061603 has carried out her dissertation work title “CANCER SCENARIO IN NORTHEAST INDIA WITH SPECIAL REFERENCE TO ASSAM AND BARPETA DISTRICT” she has done the work sincerely and work hard for preparing her dissertation she has fulfilled all the requirements laid down in the regulations my bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of her own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by her with sincere and persistent efforts that she had made in course of her investigation above all, the dissertation work maker a genuine contribution to the field of further scientific investigation. I wish her grand success in future academic career.



Signature of supervisor

Dr. Chiranjit Baruah

Assistant Professor

Department of Zoology

Madhab Choudhury College, Barpeta

CERTIFICATE

This is to certify that RUPA NARGIS AHMED bearing Roll No – US-211-130-0089 and GU Registration no -21016687 has carried out her dissertation work title “CANCER SCENARIO IN NORTHEAST INDIA WITH SPECIAL REFERENCE TO ASSAM AND BARPETA DISTRICT” she has done the work sincerely and work hard for preparing her dissertation she has fulfilled all the requirements laid down in the regulations my bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of her own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by her with sincere and persistent efforts that she had made in course of her investigation above all, the dissertation work maker a genuine contribution to the field of further scientific investigation. I wish her grand success in future academic career.



Signature of supervisor

Dr. Chiranjit Baruah

Assistant Professor

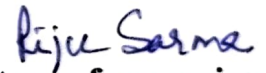
Department of Zoology

Madhab Choudhury College, Barpeta

CERTIFICATE

This is to certify that Harshanwita Das bearing Roll No – US-201-130-0024 and GU Registration no -21016619 of 2023-2024 has carried out her dissertation work titled “Study of effect of formalin on blood parameters, gill, liver and muscle and its protein content of *Heteropneustes fossilis*”. She has done the work sincerely and worked hard for preparing her dissertation. She has fulfilled all the requirements laid down in the regulations by Bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of her own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by her with sincere and persistent efforts that she had made in course of her investigation. Above all, the dissertation work makes a genuine contribution to the field of further scientific investigation. I wish her grand success in future academic career.



Signature of supervisor

Dr. Riju Sarma

Assistant Professor

Department of Zoology

CERTIFICATE

This is to certify that Hiyashri Das bearing Roll No: US-211-130-0032 and GU Registration No: 21016627 of 2023-2024 has carried out her dissertation work title “A STUDY ON THE EFFECT OF VITAMIN D ON CALCIUM LEVEL AND BLOOD PARAMETERS OF HETEROPNEUSTES FOSSILIS”. She has done the work sincerely and work hard for preparing her dissertation. She has fulfilled all the requirements laid down in the regulations my bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of her own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by her with sincere and persistent efforts. This dissertation work make a genuine contribution to the field of further scientific investigation. I wish her grand success in future academic career.

Riju Sarma
Signature of supervisor

Dr. Riju Sarma

Assistant Professor

Department of Zoology

CERTIFICATE

This is to certify that Sushmita Parbin bearing Roll No : US-211-130-0106 and GU Registration No: 21016705 of 2023-2024 has carried out her dissertation work title “STUDY ON THE EFFECTS OF GLOBAL WARMING ON INSECT COMMUNITY: A REVIEW”. She has done the work sincerely and work hard for preparing her dissertation. She has fulfilled all the requirements laid down in the regulations my bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of her own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by her with sincere and persistent efforts. This dissertation work make a genuine contribution to the field of further scientific investigation. I wish her grand success in future academic career.

Riju Sarma
Signature of supervisor

Dr. Riju Sarma

Assistant Professor


Department of Zoology

CERTIFICATE

This is to certify that Annesha Das bearing Roll No – US-201-130-0004 and GU Registration no -21016599 of 2023-2024 has carried out her dissertation work titled “Study of effect of formalin on gill, liver and muscle of *Heteropneustes fossilis*”. She has done the work sincerely and worked hard for preparing her dissertation. She has fulfilled all the requirements laid down in the regulations by Bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of her own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by her with sincere and persistent efforts that she had made in course of her investigation. Above all, the dissertation work makes a genuine contribution to the field of further scientific investigation. I wish her grand success in future academic career.

Signature of supervisor



Dr. Riju Sarma

Assistant Professor

Department of Zoology

CERTIFICATE

This is to certify that the project work titled “ THE COMMON BELIEFS TOWARDS ANIMALS AND THEIR POSSIBLE EXPLANATION” was carried by ALISHA BEGUM from B.Sc 6th semester Zoology Honors bearing Roll No: US-211-130-0003 and GU Registration No: 21016598 from Madhab Choudhury College, Barpeta under my guidance and supervision.

The project work is an original work done by her own investigation and it has not been submitted by others to any degree . The result embodied in the dissertation is a record of original work done by her with sincere and persistent efforts that she had made in her investigation of her B.Sc course in Zoology major as per guidelines of GAUHATI UNIVERSITY, GAUHATI. The data presented here are collected by the student by herself. I wish her grand success in future academic career.

Jaydev Mandal
10/06/24

Dr Jaydev Mandal
Assistant professor
Department of Zoology
Madhab Choudhury College, Barpeta

**STUDY OF THE BIRDS AND THEIR
SIGNIFICANCE IN ASSAMESE CULTURE
MENTIONED IN BIHU SONGS, LITERATURE
AND FOLKORE**

PROJECT REPORT

**Submitted for the partial fulfillment of sixth semester Zoology
Major Course, under Gauhati University**



Submitted by-

Name: Netra Kamal Thakuria

Class: B.Sc 6th semester (HON)

Roll no: US-211-130-0073

Registration no: 21016672

Year: 2024

DEPARTMENT OF ZOOLOGY
MADHAB CHOUDHURY COLLEGE, BARPETA

CERTIFICATE

This is to certify that **Masuma Easmin** bearing Roll No: **US-211-130-0057** and GU Registration No: 21016652 of 2023-2024 has carried out her dissertation work title “**STUDY ON THE INDOGENEOUS ORNAMENTAL FISH DIVERSITY FOUND IN BARPETA DISTRICT**”. She has done the work sincerely and work hard for preparing her dissertation. She has fulfilled all the requirements laid down in the regulations my bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of her own investigation and it has not been submitted by others for any degree. She has done the project work under the guidance of **Daisy Brahma**, Assistant Professor, Madhab Choudhury College, Barpeta. The results embodied in the dissertation is a record of original work done by her with sincere and persistent efforts. This dissertation work makes a genuine contribution to the field of further scientific investigation. I wish her grand success in future academic career.



Signature of supervisor

Daisy Brahma

Assistant Professor

Department of Zoology

CERTIFICATE

This is to certify that DilipMalakar bearing Roll No. US-211-130-0016 and G.U. Registration No. 21016612 has carried out her dissertation work titled "Toxicity Effect Of Chlorpyrifos On *Monopterus albus*" under my supervision. She has done the work since rely and worked hard for preparing her dissertation. She has fulfilled all the requirements laid down in the regulations of my Bachelor of Science (B.Sc) examination, Madhab Choudhary College, Barpeta.

The dissertation is the result of her own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by her with sincere and persistent efforts that she had made in course of her investigation. Above all, the dissertation work makes a genuine contribution to the field of further scientific investigation. I wish her grand success in future academic career.


Signature of Supervisor

Daisy Brahma, M.sc

Madhab Choudhary College ,Barpeta

CERTIFICATE

This is to certify that Mamtaz Begum bearing Roll No. US-211-130-0052 and G.U. Registration No. 21085441 has carried out her dissertation work titled "Toxicity Effect Of Chlorpyrifos On Monopterus albus" under my supervision. She has done the work since rely and worked hard for preparing her dissertation. She has fulfilled all the requirements laid down in the regulations of my Bachelor of Science (B.Sc) examination, Madhab Choudhary College, Barpeta.

The dissertation is the result of her own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by her with sincere and persistent efforts that she had made in course of her investigation. Above all, the dissertation work makes a genuine contribution to the field of further scientific investigation. I wish her grand success in future academic career.

Daisy Brahma
Signature of supervisor

Daisy Brahma, M.sc

Madhab Choudhary College, Barpeta

CERTIFICATE

This is to certify that KHAN MAHAMMAD KHALID HASSAN bearing Roll No-US-211-130-0049 and GU Registration no -21016645 has carried out his dissertation work title "STUDIES ON VARIOUS TYPES OF FISHES CAUGHT BY USING DIFFERENT FISHING GEARS, THEIR PROTEIN CONTENT AND ECONOMIC VALUE" he has done the work sincerely and work hard for preparing his dissertation he has fulfilled all the requirements laid down in the regulations my bachelor of Science (B.Sc.) examination, Madhab Choudhury College, Barpeta.

This dissertation is the result of his own investigation and it has not been submitted by others for any degree. The results embodied in the dissertation is a record of original work done by him with sincere and persistent efforts that he had made in course of his investigation above all, the dissertation work maker a genuine contribution to the field of further scientific investigation. I wish his grand success in future academic career.



Signature of supervisor

Prof. Runu Swargiary & Dr. Chiranjit Baruah

Assistant Professor

Department of Zoology

Madhab Choudhury College, Barpeta