

PANDIT DEENDAYAL UPADHYAYA ADARSHA MAHAVIDYALAYA, AMJONGA

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FIRST CYCLE NAAC ACCREDITATION 2024

CRITERION-I

(CURRICULAR ASPECTS)

Key Indicator - 1.3

Curriculum Enrichment

Submitted to



THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

Bangalore, Karnataka, India

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Department of Botany: Student List

GAUHATI UNIVERSITY, ASSAM		ATTENDANCE SHEET	
Practical Exam			
NAME OF EXAMINATION		: B.Sc (Hons) CBCS, 6Sem - PRACTICAL EXAMINATION, 2023	
CENTER OF EXAMINATION		: 183- PDUAM, Amjonga	
PAPER CODE AND NAME		: BOT-HE-6036 Dissertation/Project work	
DATE OF EXAMINATION		: 22/5/23	
S.NO.	ROLL NO.	STUDENT NAME	SIGNATURE
1	US-191-183-0071	UPASHA KAIBARTA	Upasha Kaibarta.
2	US-201-183-0012	DILTU R MARAK	Diltu R. Marak
3	US-201-183-0022	JUMUI DAIMARY	Jumui Daimary
4	US-201-183-0025	KAJAL RUDRA	Kajal Rudra
5	US-201-183-0027	KAUSHIK RAY	Kaushik Ray
6	US-201-183-0028	KAUSHIK ROUTH	Kaushik Routh
7	US-201-183-0030	MANALISHA BODOSA	Manalisha Bodosa
8	US-201-183-0032	MANSUR ALAM	Mansur Alam
9	US-201-183-0039	PUJA PATGIRI	Puja Patgiri
10	US-201-183-0042	RIYA MAHANTA	Riya Mahanta
11	US-201-183-0046	SHARMISTHA I SANGMA	Sharmistha I. Sangma
12	US-201-183-0050	SWAGATA NATH	Swagata Nath

Signature Of External Examiner	<i>Dman</i>
Name of External Examiner	Dr. Dharmiswar Barman
Signature Of Internal Examiner	<i>Dm</i> 22/5/23 & <i>Spw</i> 22/5/23
Name of Internal Examiner	Debjit Raha & Sabmoore Teasair Jyoti


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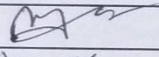
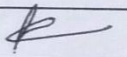

AKA
Coordinator
IQAC, PDUAM, Amjonga
Gualbare-753124

[Signature]
Principal
Pandit Deendayal Upadhyaya
Adarsha Mahavidyalaya, Amjonga

Metric No	Heading
1.3.2.1	Percentage of students undertaking project work/ field work/ internship

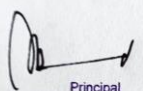
Department of Chemistry: Student List

 GAUHATI UNIVERSITY, ASSAM ATTENDANCE SHEET Practical Exam			
NAME OF EXAMINATION		: B.Sc (Hons) CBCS, 6Sem - PRACTICAL EXAMINATION, 2023	
CENTER OF EXAMINATION		: 183- PDUAM Amjonga	
PAPER CODE AND NAME		: CHE-HE-6056 Dissertation	
DATE OF EXAMINATION		: 25/05/2023	
S.NO.	ROLL NO.	STUDENT NAME	SIGNATURE
1	US-191-183-0063	RUPJYOTI NATH	Rupjyoti Nath
2	US-201-183-0001	ABDUL KALAM	Abdul Kalam
3	US-201-183-0002	ANKUR BARMAN	Ankur Barman
4	US-201-183-0004	BABITA RABHA	Babita Rabha
5	US-201-183-0005	BHAWANA DAS	Bhawana Das
6	US-201-183-0023	JYOTI PRASAD DAS	Jyoti Prasad Das
7	US-201-183-0026	KAPIL BAYAN	Kapil Bayan
8	US-201-183-0029	MADHUMITA HAZARIKA	Madhumita Hazarika
9	US-201-183-0045	SANU SARKAR	Sanu Sarkar

Signature Of External Examiner	
Name of External Examiner	Dr. Manoj Lochan Das
Signature Of Internal Examiner	 
Name of Internal Examiner	Dr. Prasanta Sawai, Dr. Upama Baruah.


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 IQAC, PDUAM, Amjonga
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 Pandit Deendayal Upadhyaya
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Metric No	Heading
1.3.2.1	Percentage of students undertaking project work/ field work/ internship

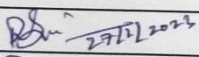
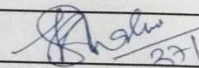
Department of Computer Science: Student List



GAUHATI UNIVERSITY, ASSAM
ATTENDANCE SHEET
Practical Exam


NAME OF EXAMINATION		: B.Sc (Hons) CBCS, 5Sem - PRACTICAL EXAMINATION, 2023	
CENTER OF EXAMINATION		: 183- PDUAM Amjonga	
PAPER CODE AND NAME		: CSC-HE-5036 Project work/Dissertation	
DATE OF EXAMINATION		: 27-01-2023	

S.NO.	ROLL NO.	STUDENT NAME	SIGNATURE
1	US-201-183-0003	ANUPAM KUMAR NATH	Anupam Kumar Nath
2	US-201-183-0007	BITTU PATGIRI	Bitu Patgiri
3	US-201-183-0010	DENISH SARMA	Denish Sarma
4	US-201-183-0021	JULFIKAR JITU RAHMAN	Julfiakar Jitu Rahman
5	US-201-183-0035	NOBODOL M SANGMA	Nobodol M. Sangma
6	US-201-183-0037	PLABAN GOSWAMI	Plaban Goswami
7	US-201-183-0041	RAMI KASHYAP BASUMATARY	Rami Kashyap Basumatary

Signature Of External Examiner	 27/1/2023
Name of External Examiner	Dr. Rubul Kumar Barua
Signature Of Internal Examiner	 27/1/23
Name of Internal Examiner	DR. KSHIROD SARMA


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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Department of Mathematics: Student List	

GAUHATI UNIVERSITY, ASSAM ATTENDANCE SHEET Practical Exam			
NAME OF EXAMINATION		: B.Sc (Hons) CBCS, 6Sem - PRACTICAL EXAMINATION, 2023	
CENTER OF EXAMINATION		: 183- Pandit Deendayal U.A. Mahavidyalaya, Amjonga	
PAPER CODE AND NAME		: MAT-HE-6086 Project	
DATE OF EXAMINATION		: 20.05.2023	
S.NO.	ROLL NO.	STUDENT NAME	SIGNATURE
1	US-201-183-0006	BISHAL GHOSH	Bishal Ghosh
2	US-201-183-0017	HIRAK JYOTI NATH	Hirak Jyoti Nath
3	US-201-183-0024	KABITA GANGWAL	Kabita Gangwal
4	US-201-183-0031	MANJIT DAS	Manjit Das
5	US-201-183-0036	PALLAB RABHA	Pallab Rabha
6	US-201-183-0043	RUPAM RAY	Rupam Ray
7	US-201-183-0047	SHREYA DEY SARKAR	Shreya Dey Sarkar

Signature Of External Examiner	Mridul Dutta
Name of External Examiner	Dr. Mridul Dutta
Signature Of Internal Examiner	
Name of Internal Examiner	Dr. Pranab Jyoti Dewari

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

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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship


Department of Zoology: Student List

GAUHATI UNIVERSITY, ASSAM			
ATTENDANCE SHEET			
Practical Exam			
NAME OF EXAMINATION		: B.Sc (Hons) CBCS, 6Sem - PRACTICAL EXAMINATION, 2023	
CENTER OF EXAMINATION		: 183-	
PAPER CODE AND NAME		: ZOO-HE-6056 Dissertation	
DATE OF EXAMINATION		:	
S.NO.	ROLL NO.	STUDENT NAME	SIGNATURE
1	US-191-183-0019	DIPANGKAR ROY	Dipangkar Roy
2	US-201-183-0013	DIMAN KALITA	Diman Kalita
3	US-201-183-0015	EMZAMUL HUSSAIN	Emzamal Hussain
4	US-201-183-0018	HIRANJANA BASUMATARY	Hiranjana Basumatary
5	US-201-183-0020	JANMONI KHAKHALARY	Janmoni Khakhalary
6	US-201-183-0033	MONISA BASUMATARY	Monisa Basumatary
7	US-201-183-0034	NIKITA MEDHI	Nikita Medhi
8	US-201-183-0038	PRAGYAN RABHA	Pragyan Rabha
9	US-201-183-0040	RAJBABA AHMED	Rajbaba Ahmed
10	US-201-183-0044	SANGITA BASUMATARY	Sangita Basumatary
11	US-201-183-0048	SIDDHARTHA RABHA	Siddhartha Rabha

Signature Of External Examiner	
Name of External Examiner	Dr Tapan Chandra Kalita
Signature Of Internal Examiner	
Name of Internal Examiner	Dr Chandalekha Deka

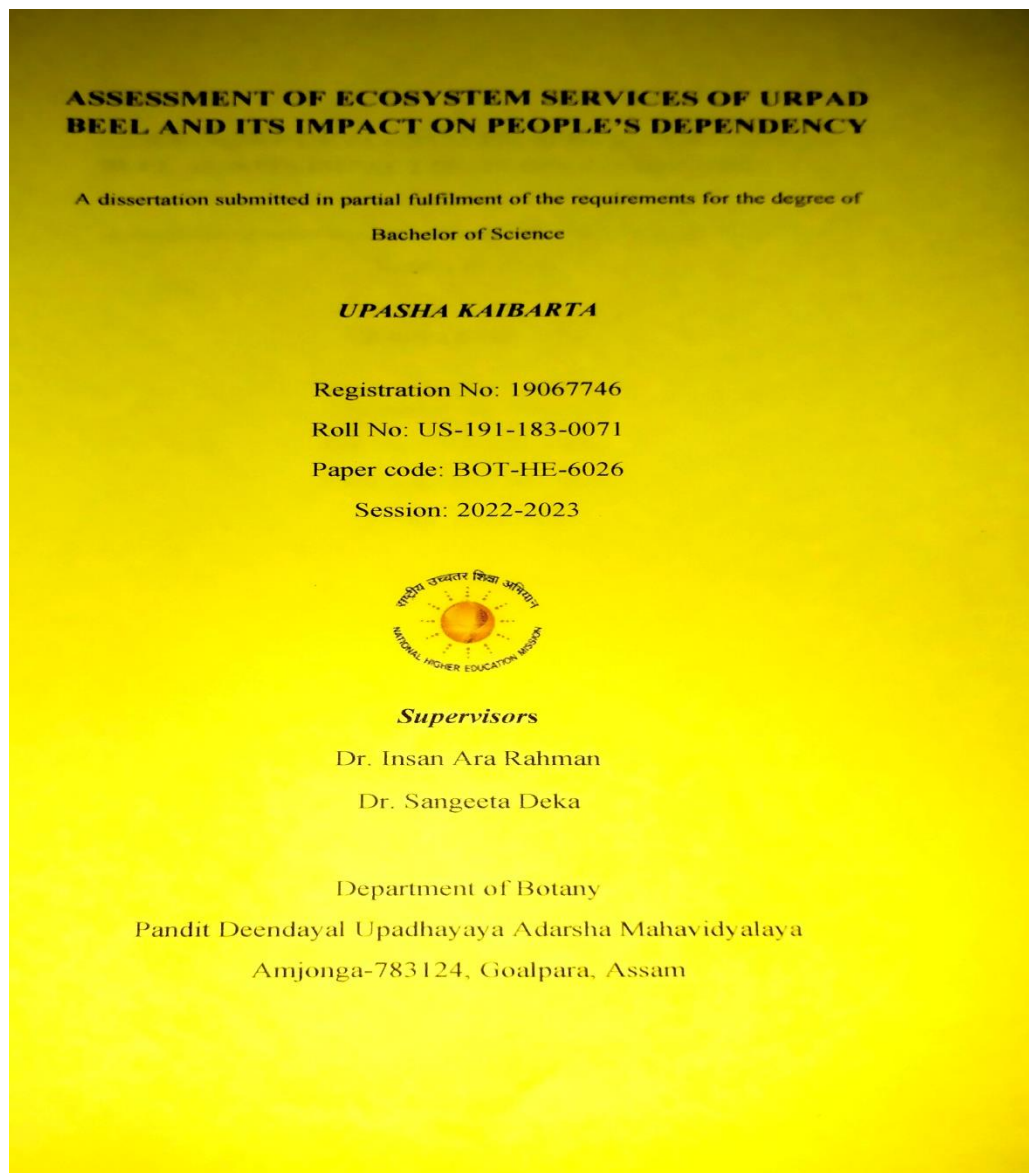
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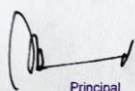
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Title Page of Project




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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

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AMJONGA, GOALPARA, PIN-783124
Phone: +9170020323 Email: dept.botany.pduam@gmail.com

Certificate

This is to certify that the dissertation entitled, "*Assessment Of Ecosystem Services Of Urpad Beel And Its Impact On Peoples Dependency*", submitted to the **Department of Botany, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga**, in partial fulfilment of the requirements for the award of degree of *Bachelor of Science (BSc) in Botany* is a genuine record of original research investigations carried out by *Upasha Kaibarta* under my supervision and guidance.

All the cooperation and help received by him/her throughout this academic journey from various sources have been thankfully acknowledged.

It is further stated that no part of the contents compiled in this dissertation has been submitted elsewhere for the award of any other degree, diploma, or recognition.

 (Mr. Debajit Rabha) HoD, Dept. of Botany PDUAM, Amjonga	(Dr. Insan Ara Rahman) Supervisor Dept. of Botany PDUAM, Amjonga	 (Dr. Sangeeta Deka) Supervisor Dept. of Botany PDUAM, Amjonga
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Date: 22/05/2023

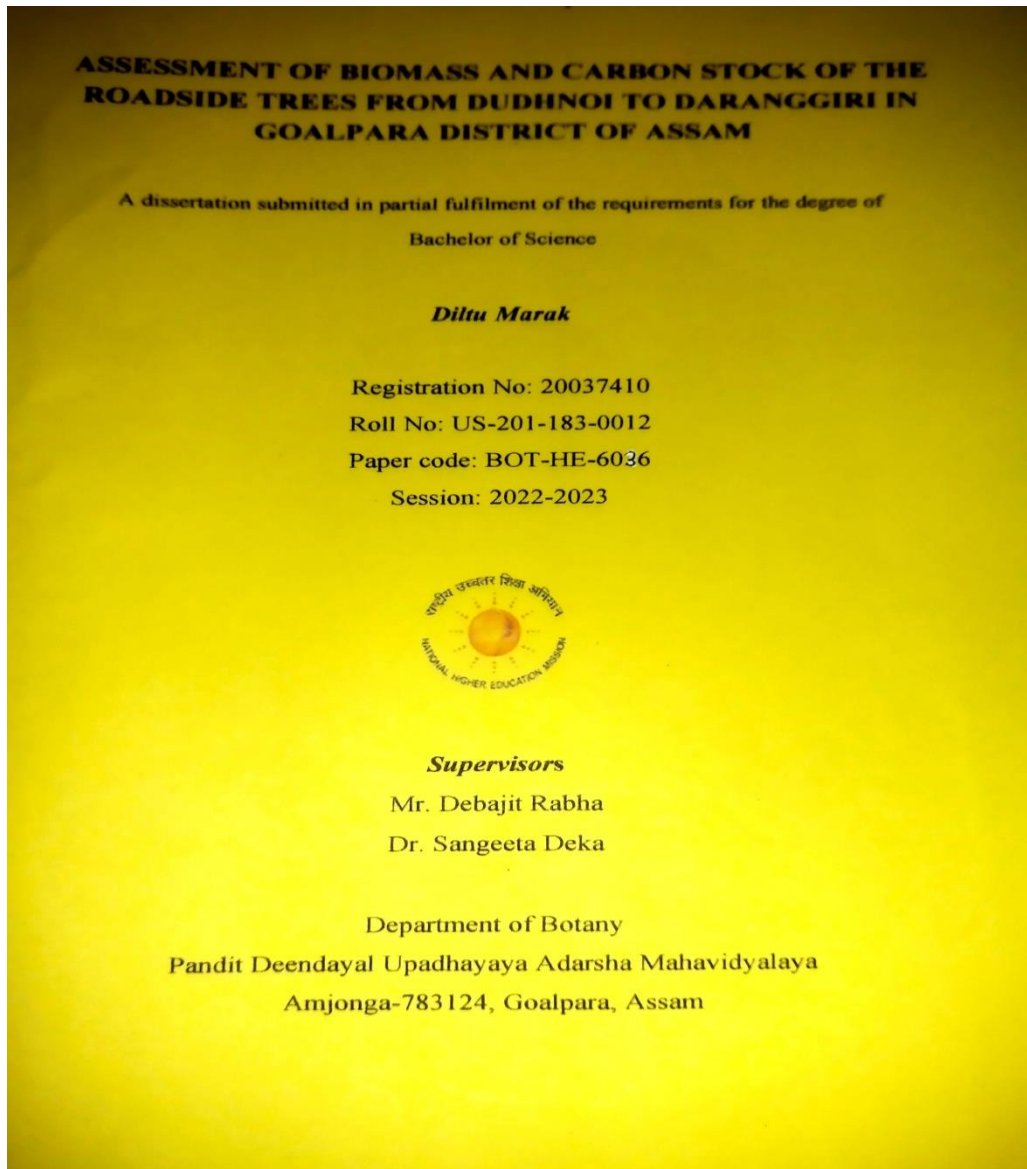
Place: Amjonga


 (Dr. D. Chakrabarti)

Submitted by Upasha Kaibartya

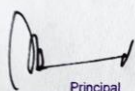
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

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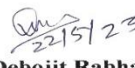
Certificate


This is to certify that the dissertation entitled, “*Assessment Of Biomass And Carbon Stock Of The Roadside Trees From Dudhnoi To Darangiri In Goalpara District Of Assam*”, submitted to the **Department of Botany, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga**, in partial fulfilment of the requirements for the award of degree of *Bachelor of Science (BSc) in Botany* is a genuine record of original research investigations carried out by *DILTU R MARAK* under my supervision and guidance.

All the cooperation and help received by him/her throughout this academic journey from various sources have been thankfully acknowledged.

It is further stated that no part of the contents compiled in this dissertation has been submitted elsewhere for the award of any other degree, diploma, or recognition.

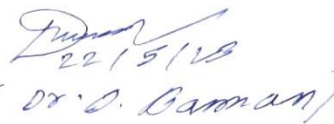

(Mr. Debojit Rabha)
 HoD, Dept. of Botany
 PDUAM, Amjonga


(Mr. Debojit Rabha)
 Supervisor
 Dept. of Botany
 PDUAM, Amjonga


(Dr. Sangeeta Deka)
 Supervisor
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 PDUAM, Amjonga

Date: 22/05/2023

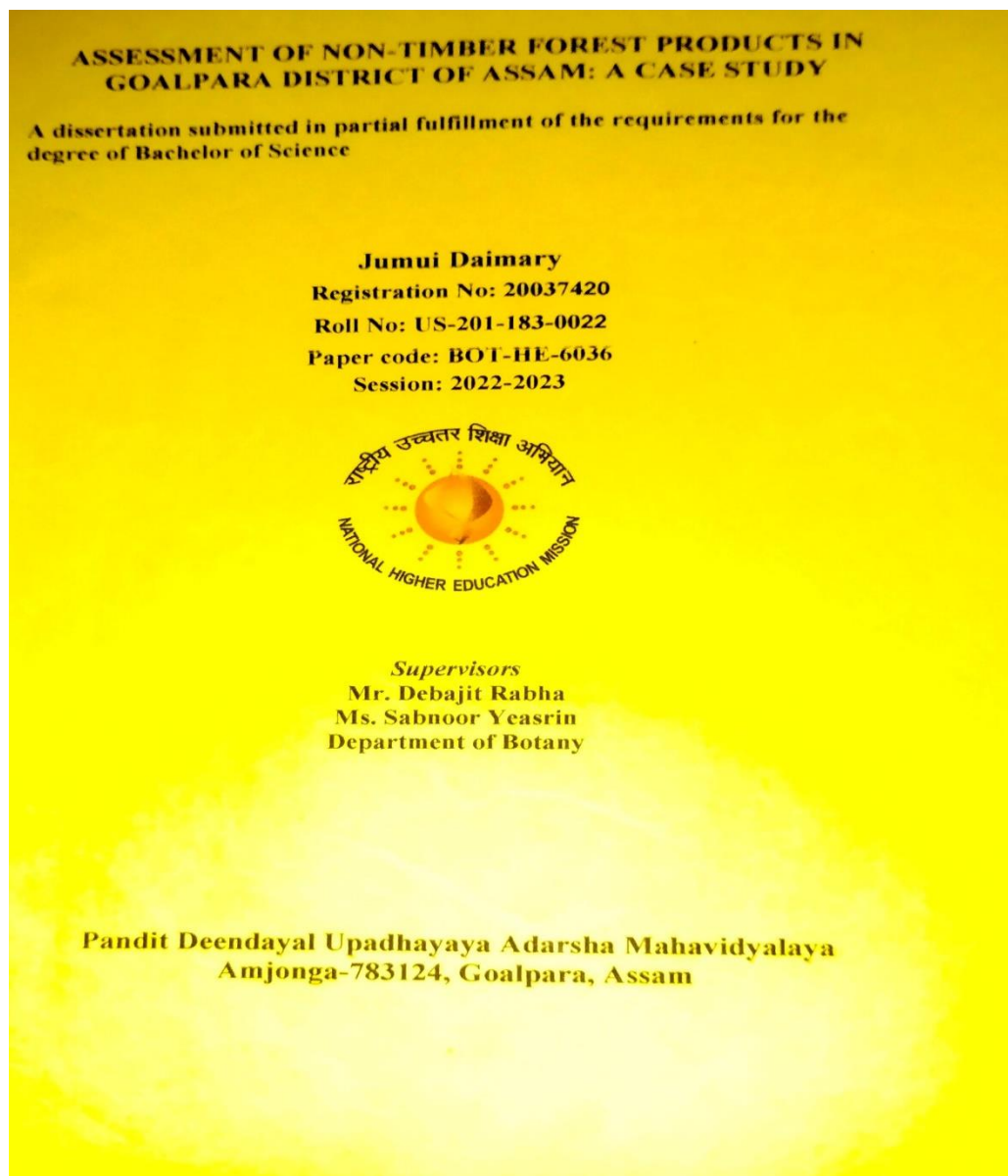
Place: Amjonga


 (Dr. D. Gannan)

Submitted by Diltu Marak

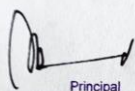
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Title Page of Project



Submitted by Jumui Daimary


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 Pandit Deendayal Upadhyaya
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Metric No	Heading
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Phone: +917002073239 Email: dept.botany.pduam@gmail


CERTIFICATE


This is to certify that the dissertation entitled, "Assessment of Non-timber Forest Products In Goalpara District Of Assam:A Case Study", submitted to the department of Botany, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of Bachelor of Science (BSc) in Botany is a genuine record of original research investigations carried out by Jumui Daimary under my supervision and guidance.

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22/5/23
Mr Debajit Rabha
HoD & Supervisor
Dept. of Botany
PDUAM, Amjonga


22/05/2023
Ms. Sabnoor Yeasrin
Supervisor
Dept. of Botany
PDUAM, Amjonga


22/5/23
Dr. D. Barman

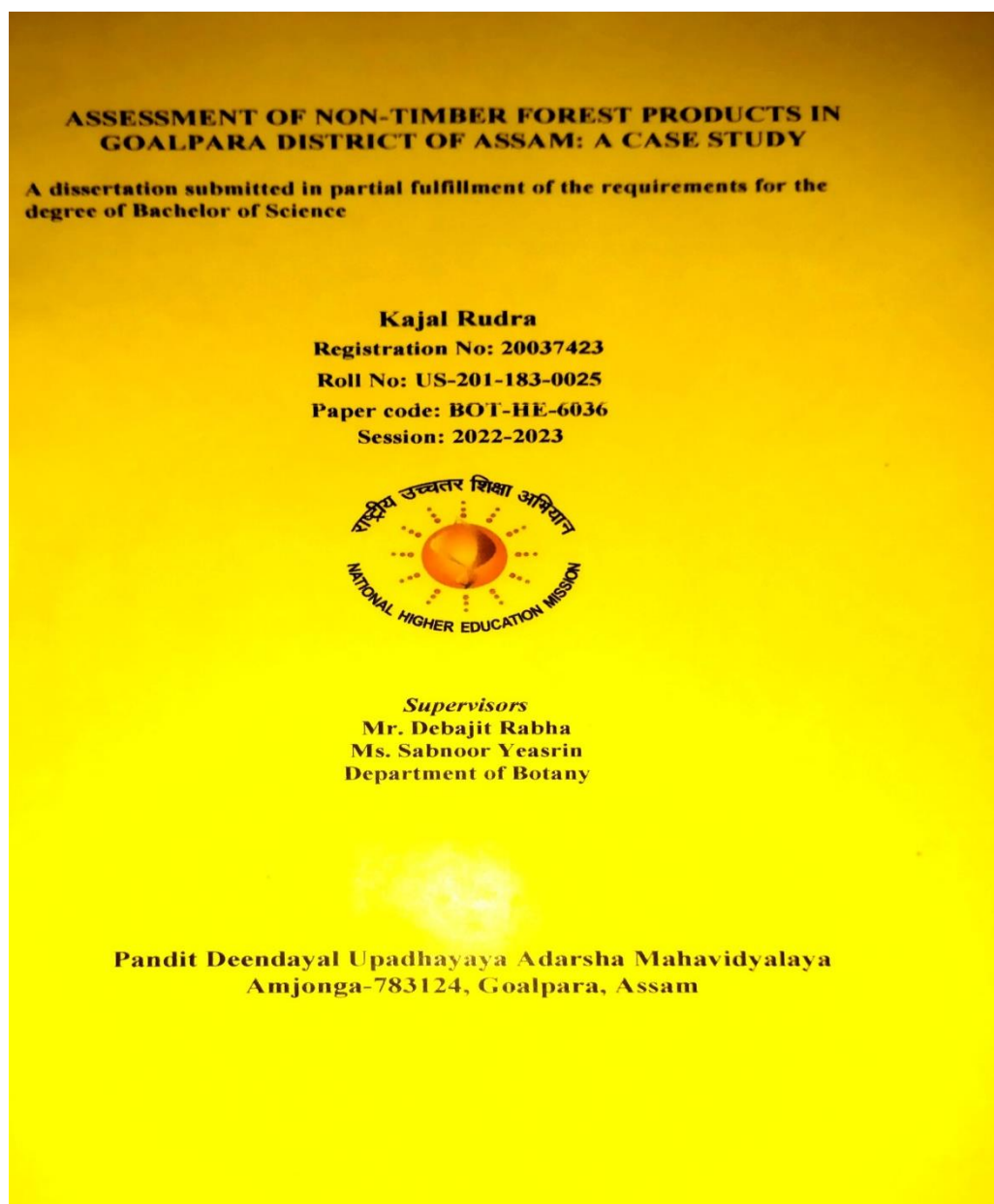
Submitted by Jumui Daimary


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IQAC, PDUAM, Amjonga
Goalpara-783124


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Pandit Deendayal Upadhyaya
Adarsha Mahavidyalaya, Amjonga

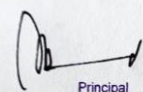
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Title Page of Project



Submitted by Kajal Rudra


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Pandit Deendayal Upadhyaya
Adarsha Mahavidyalaya, Amjonga

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Certificate



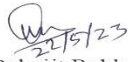
DEPARTMENT OF BOTANY
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AMJONGA, GOALPARA, PIN-783124
Phone: +917002073239 Email: dept.botany.pduam@gmail

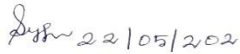
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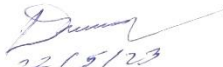
This is to certify that the dissertation entitled, "Assessment of Non-timber Forest Products In Goalpara District Of Assam:A Case Study", submitted to the department of Botany, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of Bachelor of Science (BSc) in Botany is a genuine record of original research investigations carried out by Kajal Rudra under my supervision and guidance.

All the cooperation and help received by him/her throughout this academic journey from various sources have been thankfully acknowledged.

It is further stated that no part of the contents compiled in this dissertation has been submitted elsewhere for the award of any other degree, diploma, or recognition

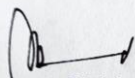

21/5/23
Mr Debajit Rabha
HoD & Supervisor
Dept. of Botany
PDUAM. Amjonga


22/05/2023
Ms. Sabnoor Yeasrin
Supervisor
Dept. of Botany
PDUAM. Amjonga


22/5/23
(Dr. D. Barman)

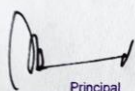
Submitted by Kajal Rudra




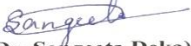
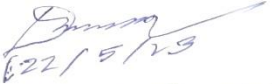

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IQAC, PDUAM, Amjonga
Goalpara-783124


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Pandit Deendayal Upadhyaya
Adarsha Mahavidyalaya, Amjonga

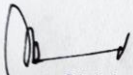
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
<p>ASSESSMENT OF ECOSYSTEM SERVICES OF URPAD BEEL AND ITS IMPACT ON PEOPLE'S DEPENDENCY</p> <p>A dissertation submitted in partial fulfilment of the requirements for the degree of Bachelor of Science</p> <p>KAUSHIK RAY</p> <p>Registration No: 20037425 Roll No: US-201-183-0027 Paper code: BOT-HE-6036 Session: 2022-2023</p>  <p>Supervisors Dr. Insan Ara Rahman Dr. Sangeeta Deka</p> <p>Department of Botany Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya Amjonga-783124, Goalpara, Assam</p>	
Submitted by Kaushik Ray	

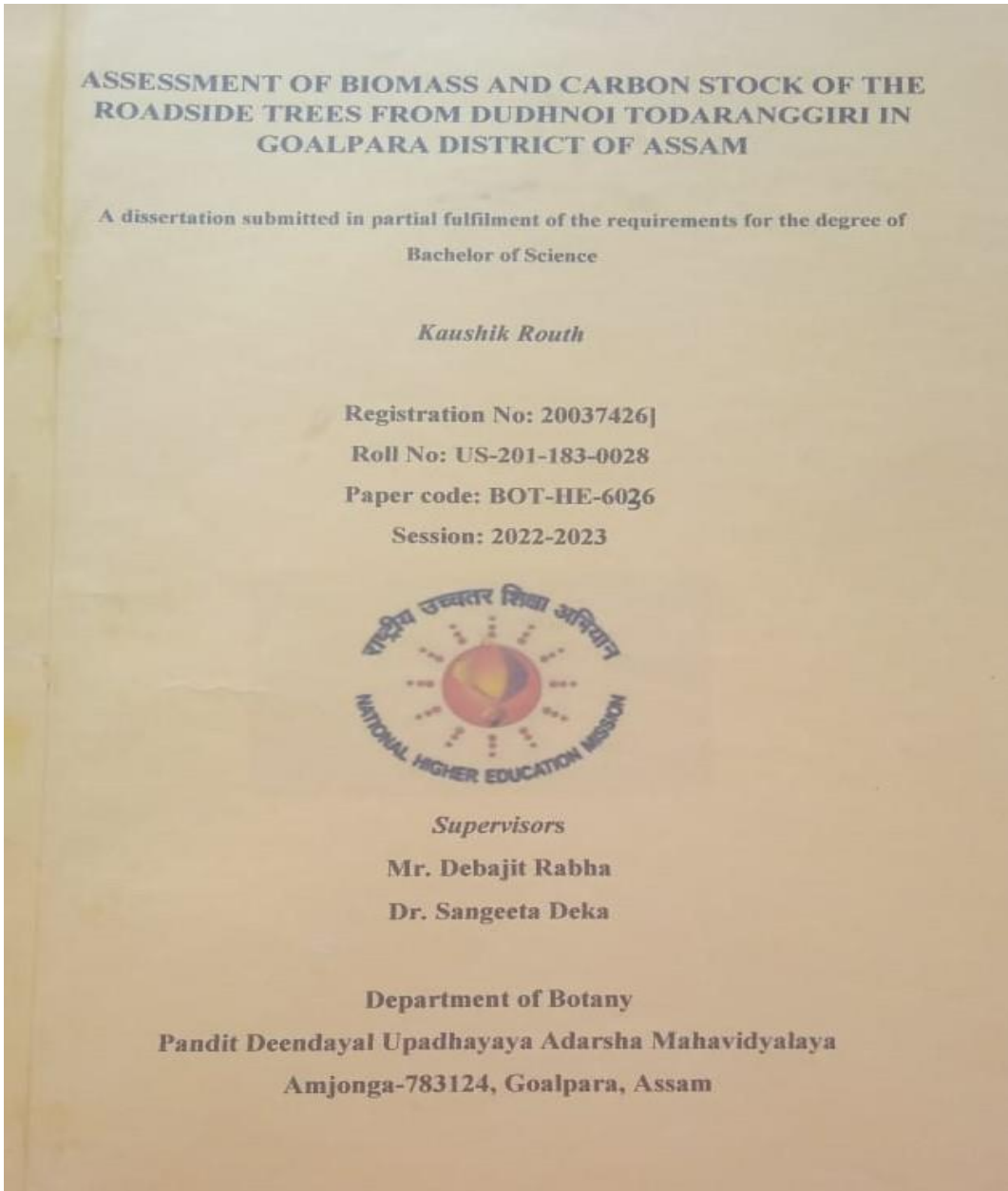


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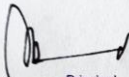
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1.3.2	Percentage of students undertaking project work/ field work/ internship
Certificate	
 <p>DEPARTMENT OF BOTANY পণ্ডিত দীনদয়াল উপাধ্যায় আদর্শ মহাবিদ্যালয়, আমজোঙ্গা PANDIT DEENDAYAL UPADHYAYA ADARSHA MAHAVIDYALAYA AMJONGA, GOALPARA, PIN-783124 Phone: +9170020323 Email: dept.botany.pduam@gmail.com</p> <p style="text-align: center;">Certificate</p> <p>This is to certify that the dissertation entitled, “<i>Assessment Of Ecosystem Services Of Urapad Beel And Its Impact On Peoples Dependency</i>”, submitted to the Department of Botany, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of <i>Bachelor of Science (BSc) in Botany</i> is a genuine record of original research investigations carried out by <i>Kaushik Ray</i> under my supervision and guidance.</p> <p>All the cooperation and help received by him/her throughout this academic journey from various sources have been thankfully acknowledged.</p> <p>It is further stated that no part of the contents compiled in this dissertation has been submitted elsewhere for the award of any other degree, diploma, or recognition.</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  (Mr. Debajit Rabha) HoD, Dept. of Botany PDUAM, Amjonga </div> <div style="text-align: center;">  (Dr. Insan Ara Rahman) Supervisor Dept. of Botany PDUAM, Amjonga </div> <div style="text-align: center;">  (Dr. Sangeeta Deka) Supervisor Dept. of Botany PDUAM, Amjonga </div> </div> <p>Date: 22/05/2023 Place: Amjonga</p> <div style="text-align: center; margin-top: 20px;">  (Dr. D. Barman) </div>	
Submitted by Kaushik Ray	


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Pandit Deendayal Upadhyaya
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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
 <p style="text-align: center;">ASSESSMENT OF BIOMASS AND CARBON STOCK OF THE ROADSIDE TREES FROM DUDHNOI TODARANGGIRI IN GOALPARA DISTRICT OF ASSAM</p> <p style="text-align: center;">A dissertation submitted in partial fulfilment of the requirements for the degree of Bachelor of Science</p> <p style="text-align: center;"><i>Kaushik Routh</i></p> <p style="text-align: center;">Registration No: 20037426] Roll No: US-201-183-0028 Paper code: BOT-HE-6026 Session: 2022-2023</p> <p style="text-align: center;"></p> <p style="text-align: center;"><i>Supervisors</i> Mr. Debajit Rabha Dr. Sangeeta Deka</p> <p style="text-align: center;">Department of Botany Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya Amjonga-783124, Goalpara, Assam</p>	
Submitted by Koushik Routh	


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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

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Certificate


This is to certify that the dissertation entitled, “*Assessment Of Biomass And Carbon Stock Of The Roadside Trees From Dudhnoi To Darangiri In Goalpara District Of Assam*”, submitted to the **Department of Botany, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga**, in partial fulfilment of the requirements for the award of degree of **Bachelor of Science (BSc) in Botany** is a genuine record of original research investigations carried out by Kaushik Routh under my supervision and guidance.

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Date: 22/05/2023

Place: Amjonga


22/5/23
(Dr. D. Barman)

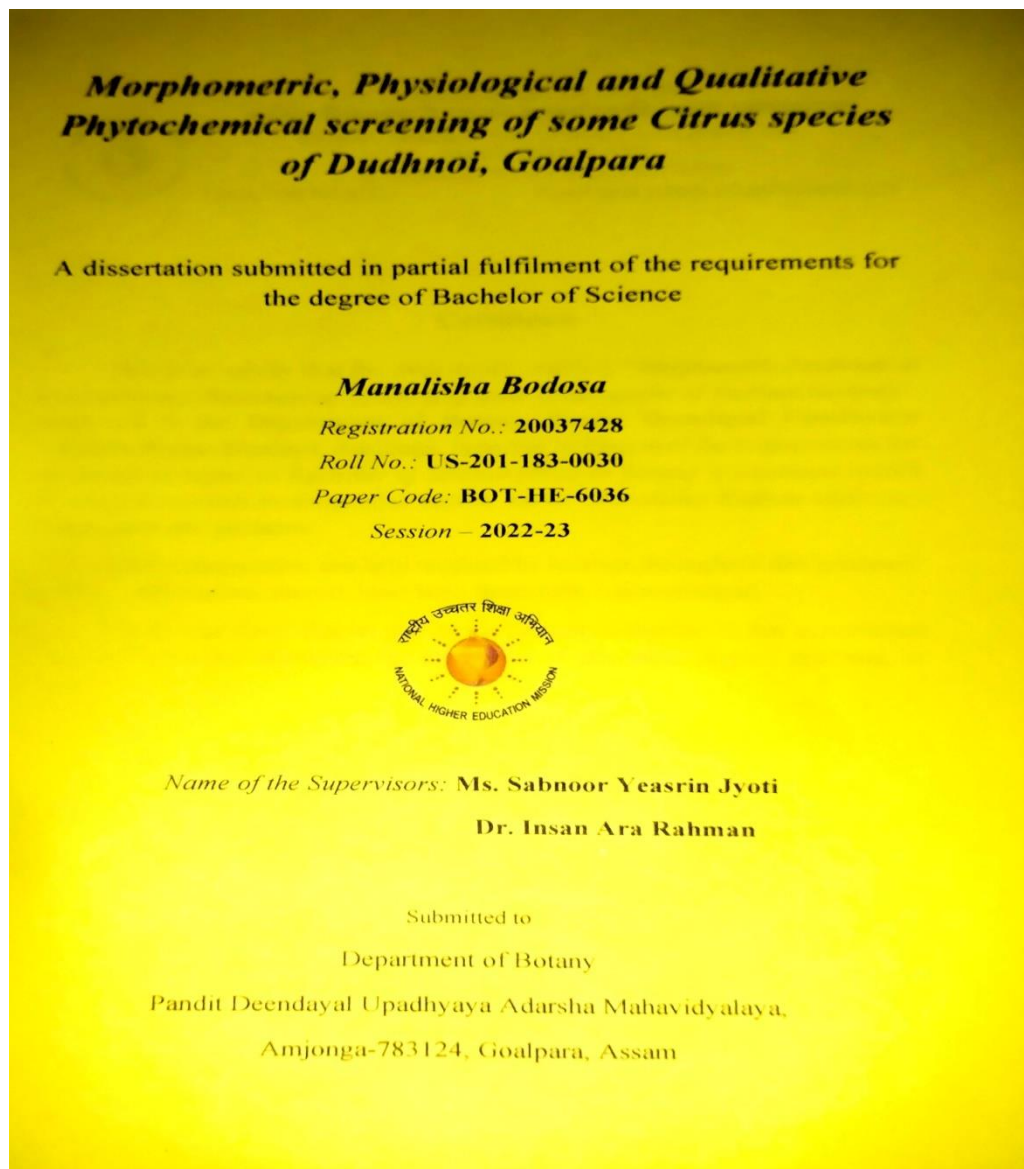
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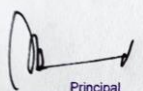
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1.3.2	Percentage of students undertaking project work/ field work/ internship

Title Page of Project



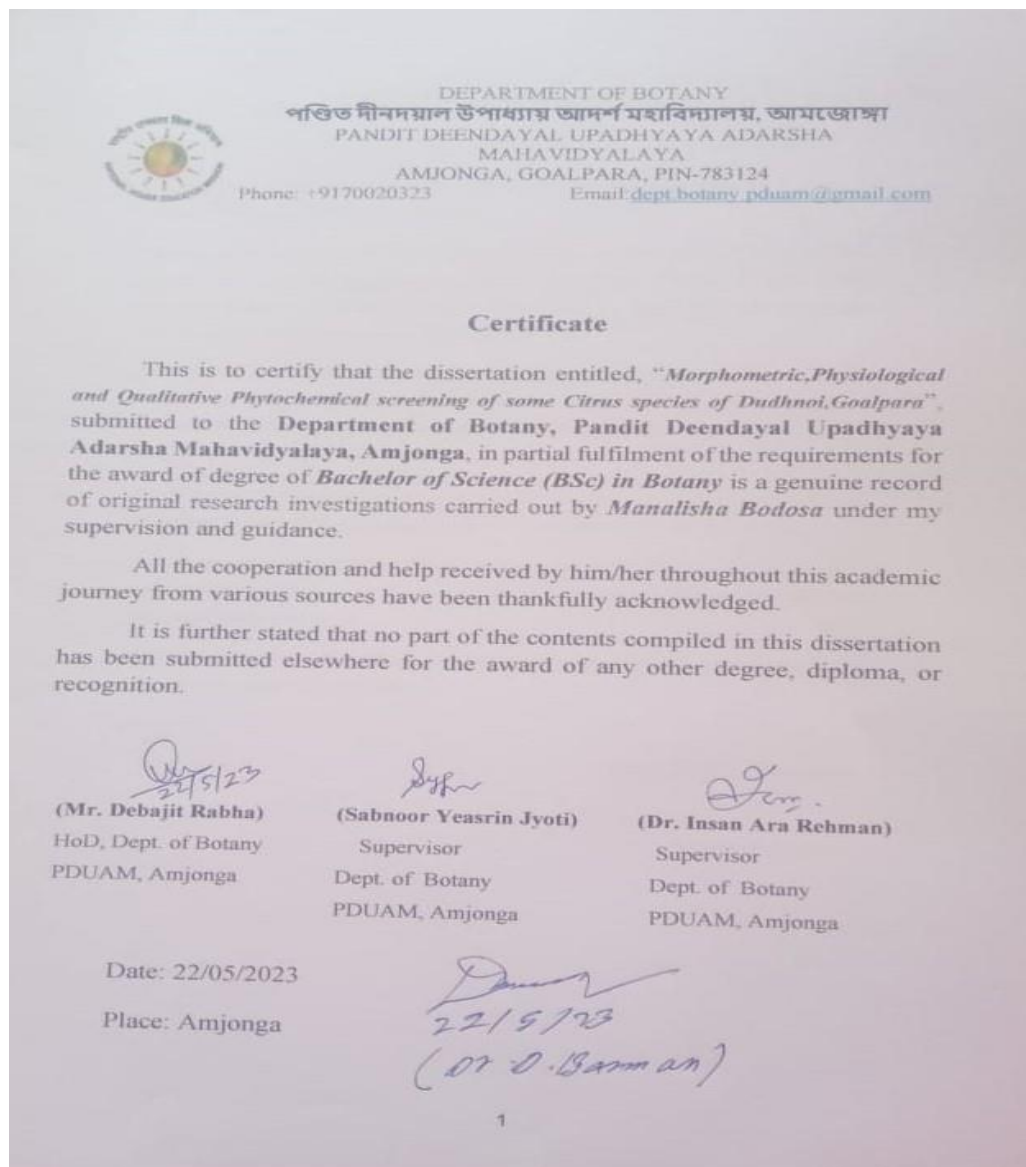
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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

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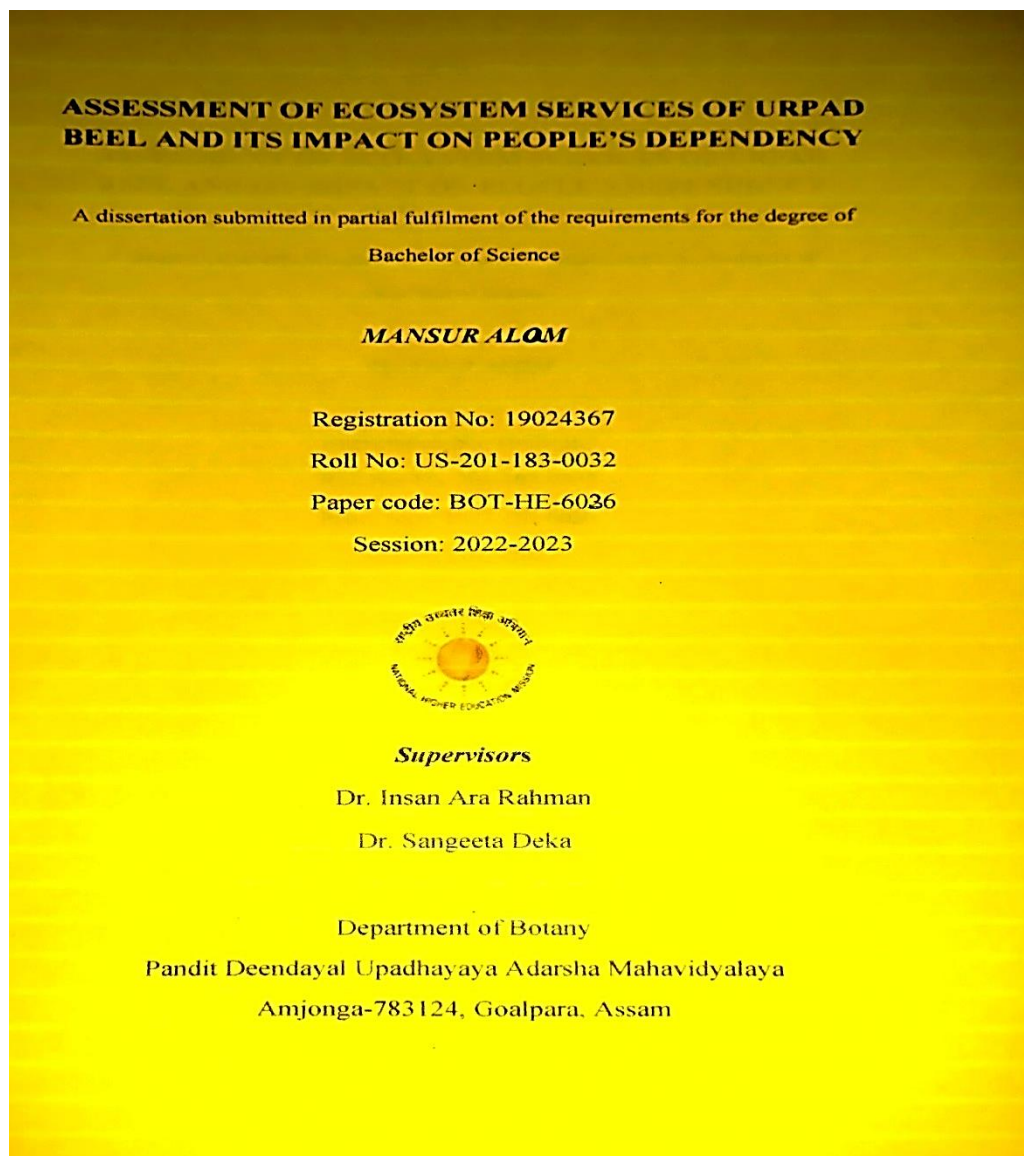
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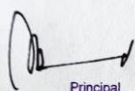
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Title Page of Project




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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

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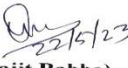
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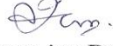
Certificate


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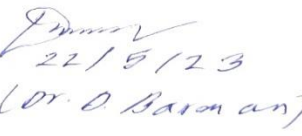
It is further stated that no part of the contents compiled in this dissertation has been submitted elsewhere for the award of any other degree, diploma, or recognition.


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 22/5/23
 (Dr. O. Barman)

Submitted by Mansur Alam

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship


Title Page of Project

**ASSESSMENT OF BIOMASS AND CARBON STOCK OF THE
ROADSIDE TREES FROM DUDHNOI TO DARANGGIRI IN
GOALPARA DISTRICT OF ASSAM**

A dissertation submitted in partial fulfilment of the requirements for the degree of
Bachelor of Science

Puja Patgiri

Registration No: 20037436
Roll No: US-201-183-0039
Paper code: BOT-HE-6026
Session: 2022-2023

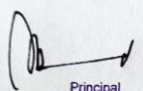


Supervisors
Mr. Debajit Rabha
Dr. Sangeeta Deka

Department of Botany
Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya
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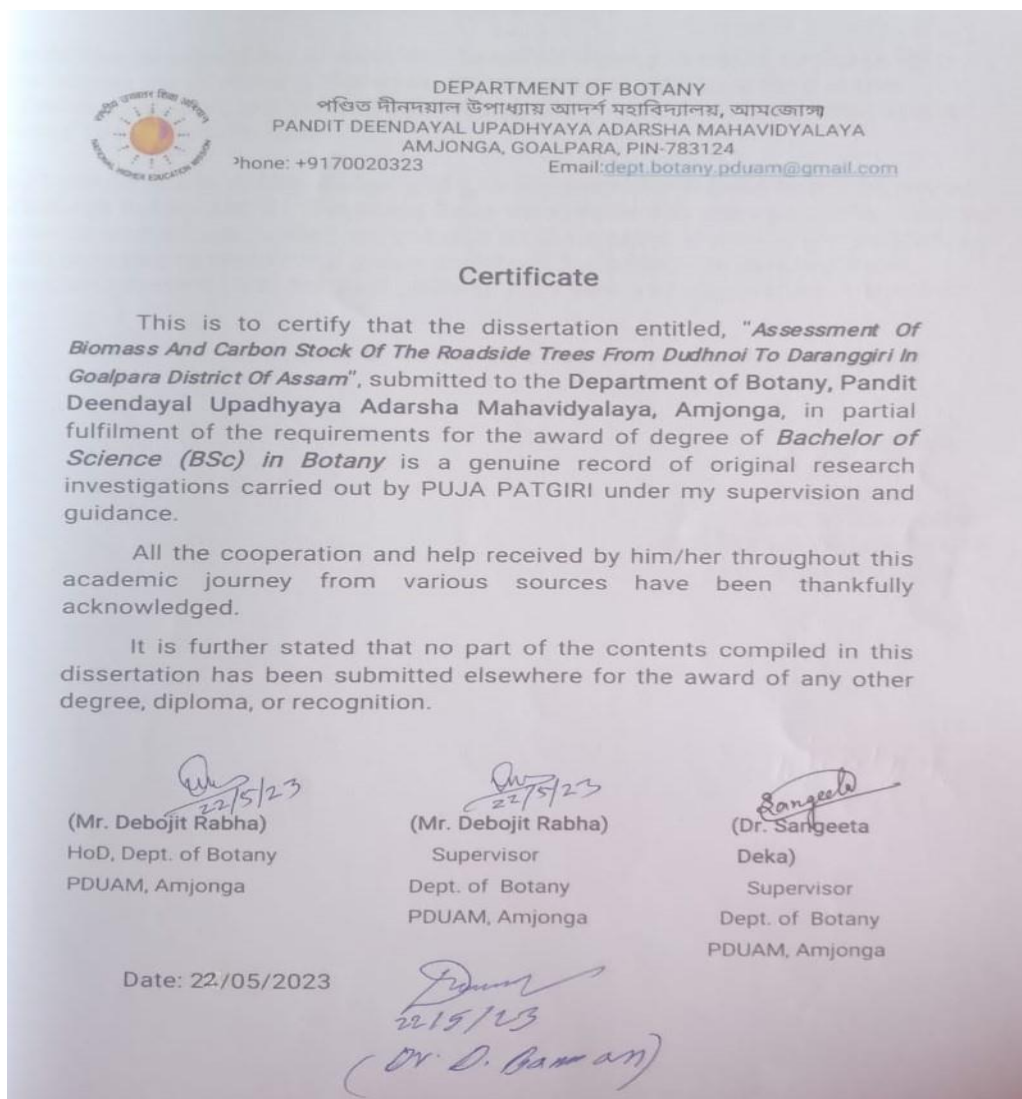
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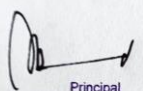
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Certificate



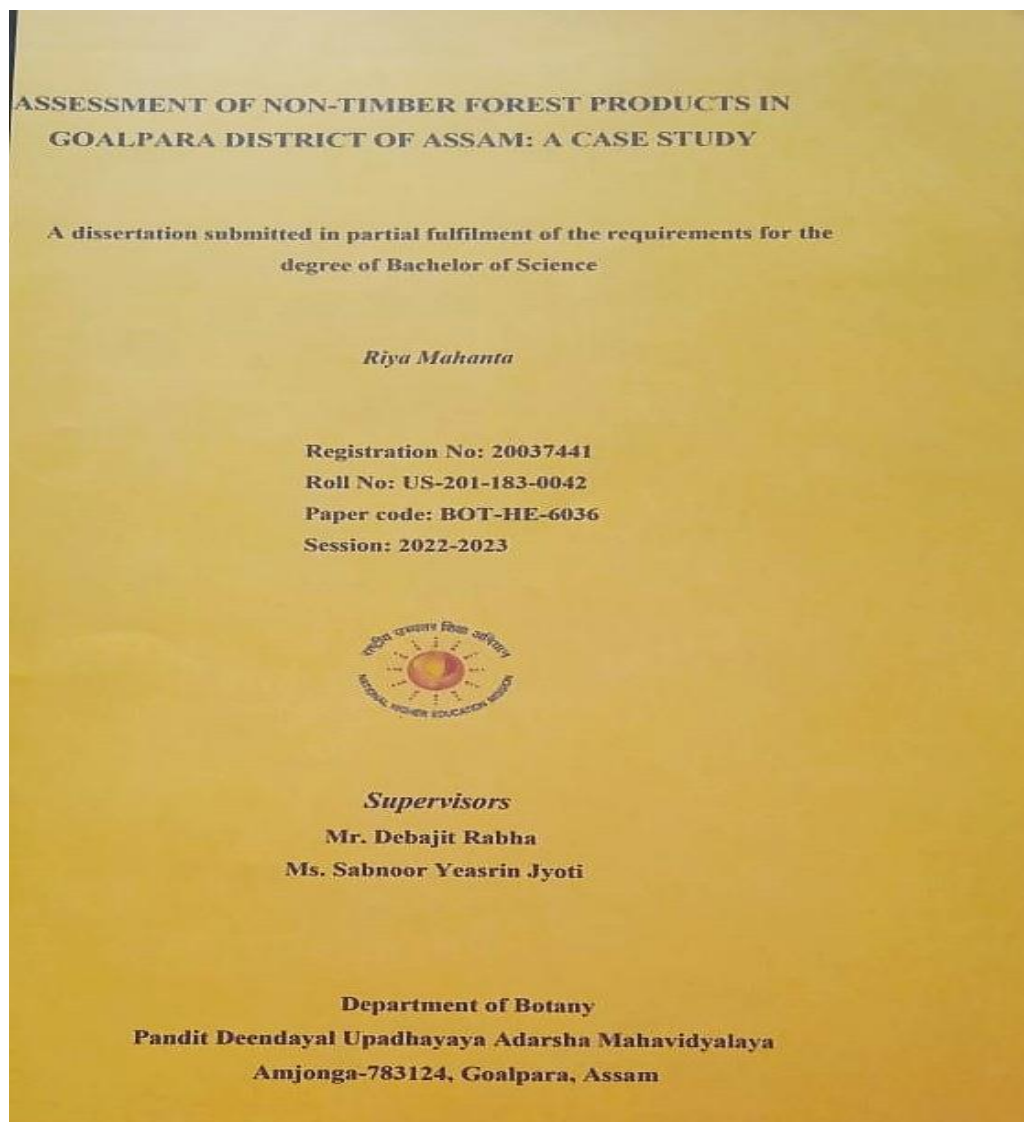
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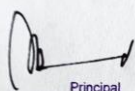
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

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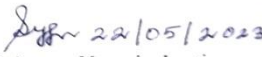
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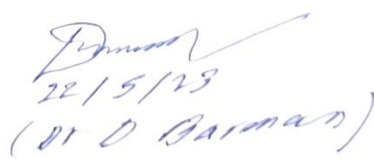
This is to certify that the dissertation entitled, "Assessment of Non-timber Forest Products In Goalpara District Of Assam:A Case Study", submitted to the department of Botany, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of Bachelor of Science (BSc) in Botany is a genuine record of original research investigations carried out by Riya Mahanta under my supervision and guidance.

All the cooperation and help received by him/her throughout this academic journey from various sources have been thankfully acknowledged.

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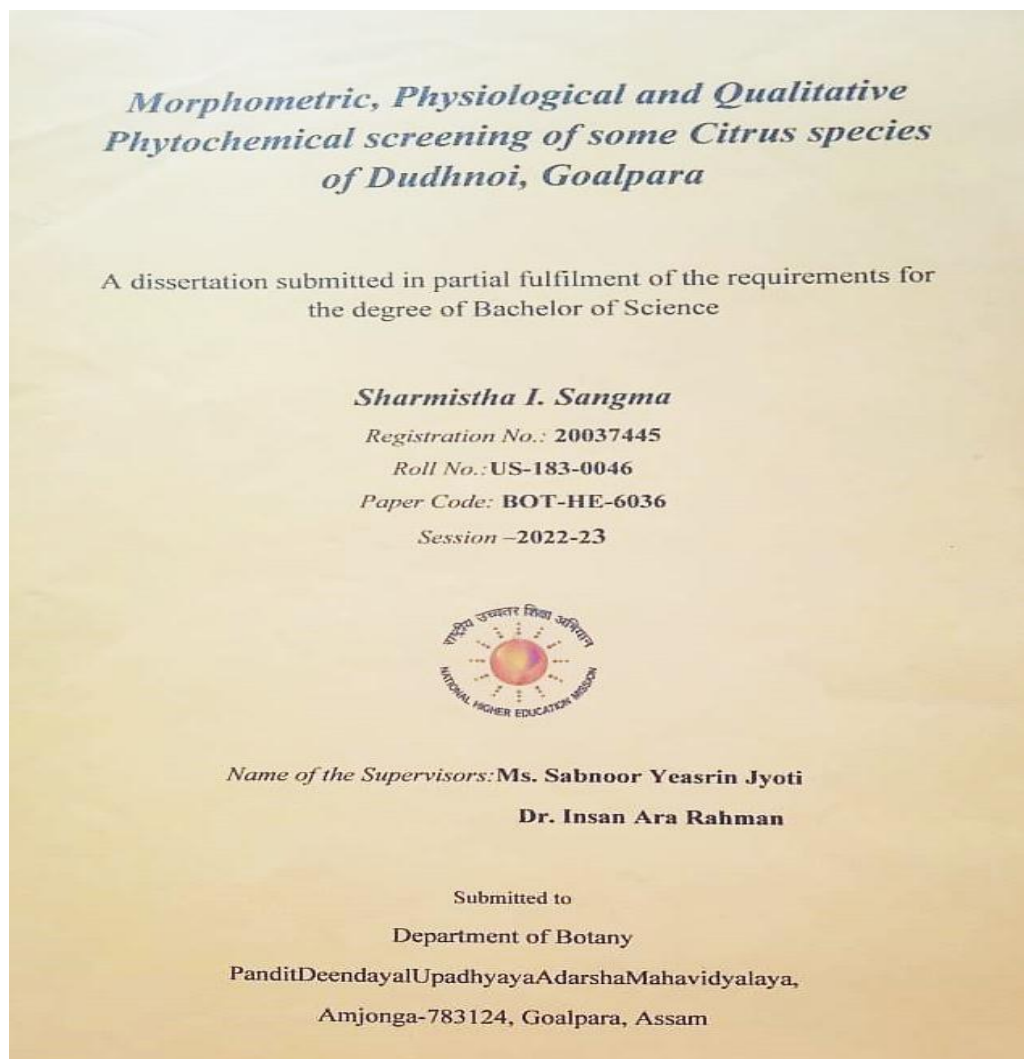

Ms. Sabnoor Yeasrin Jyoti
Supervisor
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PDUAM, Amjonga


22/5/23
(Dr. D. Barman)

Submitted by Riya Mahanta

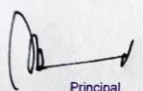
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Title Page of Project



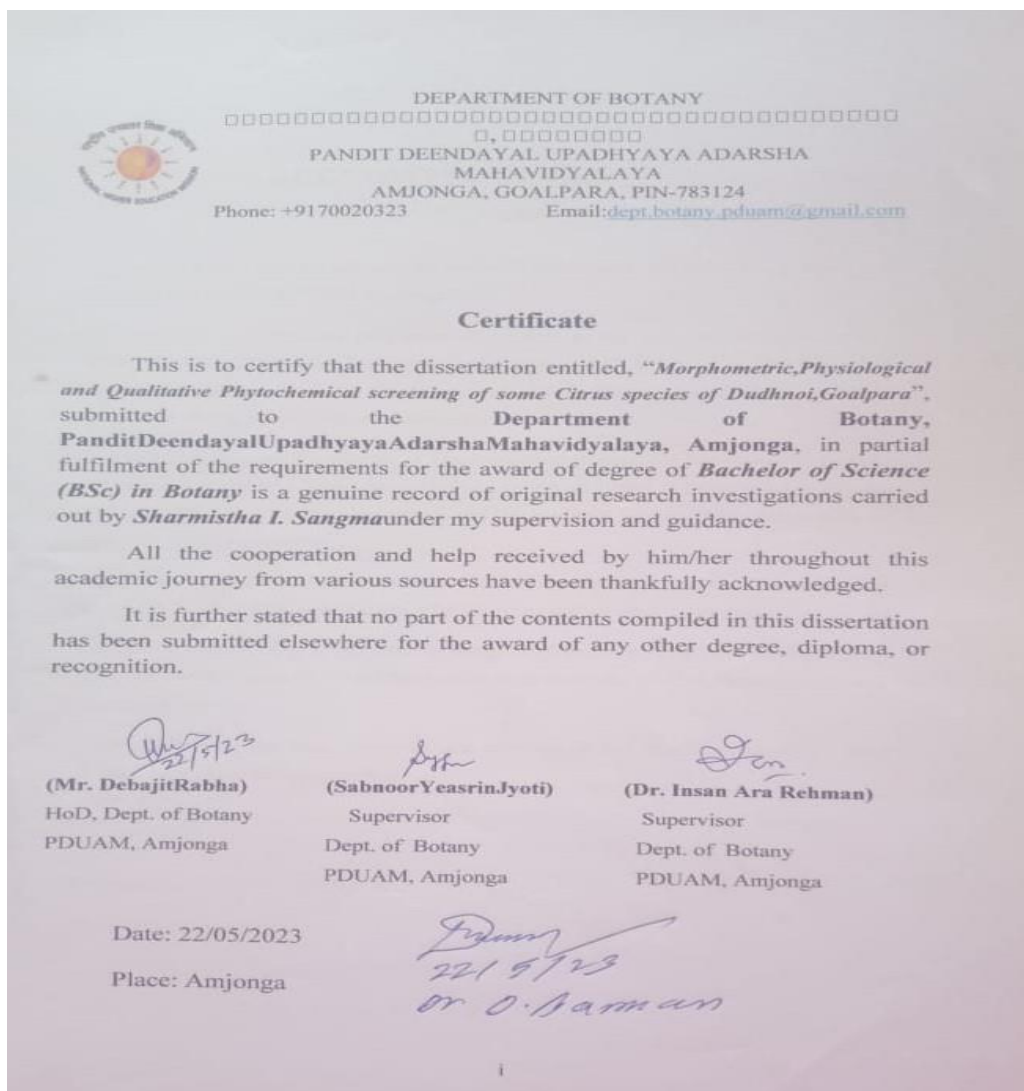
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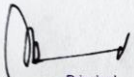
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Title Page of Project

***Morphometric, Physiological and Qualitative
Phytochemical screening of some Citrus species
of Dudhnoi, Goalpara***

A dissertation submitted in partial fulfilment of the requirements for
the degree of Bachelor of Science

Swagata Nath

Registration No.: 20037449

Roll No.: US-201-183-0050

Paper Code: BOT-HE-6036

Session – 2022-23



Name of the Supervisors: Ms. Sabnoor Yeasrin Jyoti

Dr. Insan Ara Rahman

Submitted to

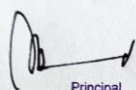
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Submitted by Swagata Nath


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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

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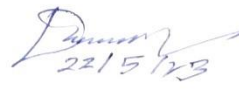
This is to certify that the dissertation entitled, “*Morphometric, Physiological and Qualitative Phytochemical screening of some Citrus species of Dudhnoi, Goalpara*”, submitted to the **Department of Botany, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga**, in partial fulfilment of the requirements for the award of degree of **Bachelor of Science (BSc) in Botany** is a genuine record of original research investigations carried out by **Swagata Nath** under my supervision and guidance.

All the cooperation and help received by him/her throughout this academic journey from various sources have been thankfully acknowledged.

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Place: Amjonga

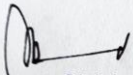

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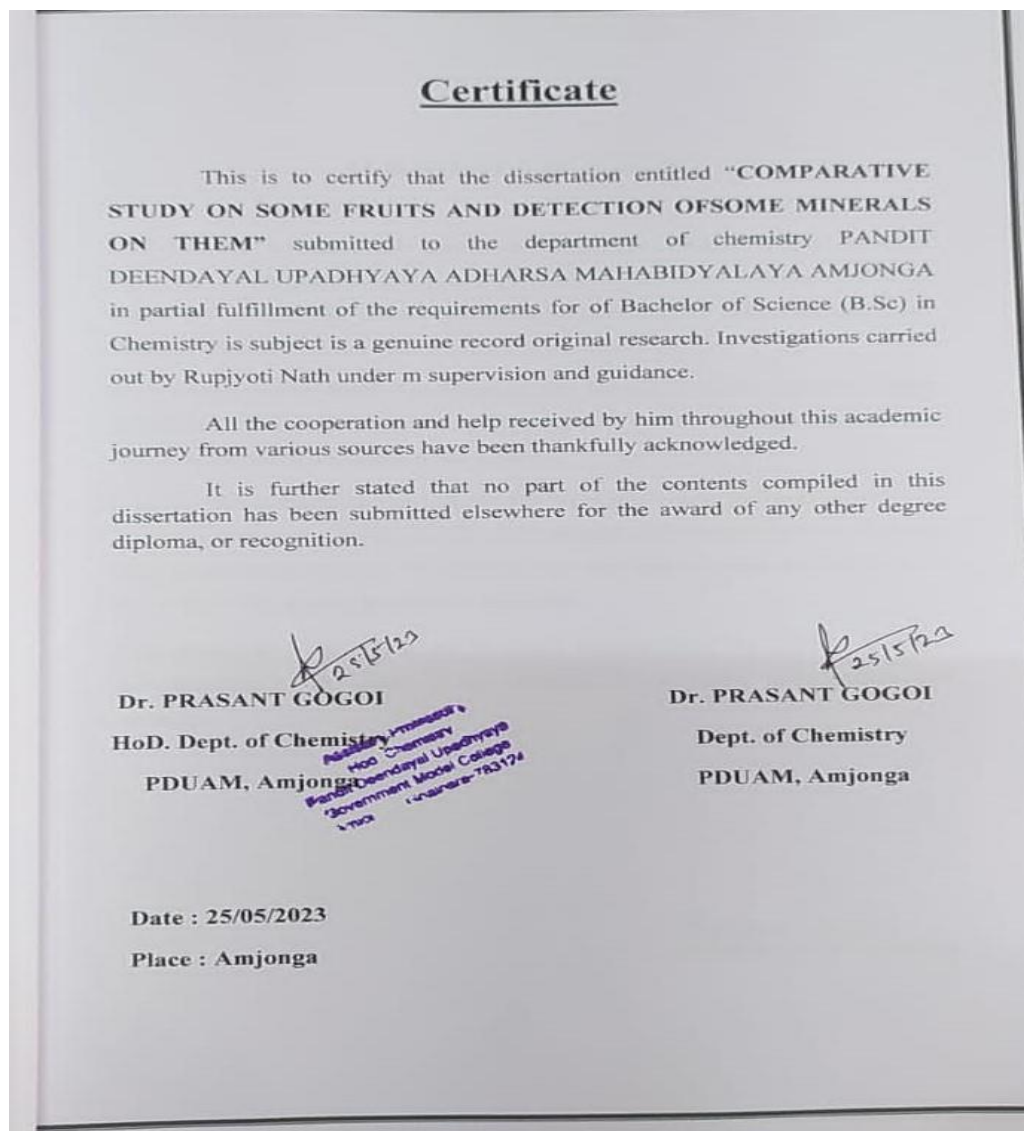
Submitted by Swagata Nath

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
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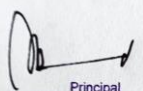

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Metric No	Heading
1.3.2.1	Percentage of students undertaking project work/ field work/ internship
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 Contact No: 783174


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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
<p><i>Qualitative Analysis of Functional Groups in Betel Nut Extracts</i></p> <p>A dissertation submitted in partial fulfilment of the requirements for the degree of Bachelor of Science</p> <p>Abdul Kalam Registration No:20037399 Roll No:US-201-181-0001 Paper Code: CHE-HE-6056 Session – 2022-23</p>  <p>Name of the Supervisor: Dr.Prasanta Gogoi</p> <p>Department of <i>Chemistry</i> Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga-783124, Goalpara, Assam</p>	
Submitted by Abdul Kalam	


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1.3.2	Percentage of students undertaking project work/ field work/ internship

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All the cooperation and help received by him/her throughout this academic journey from various sources have been thankfully acknowledged.

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Dr. Prasanta Gogoi

HoD, Dept. Of Chemistry

PDUAM, Amjonga

Dr. Prasanta Gogoi

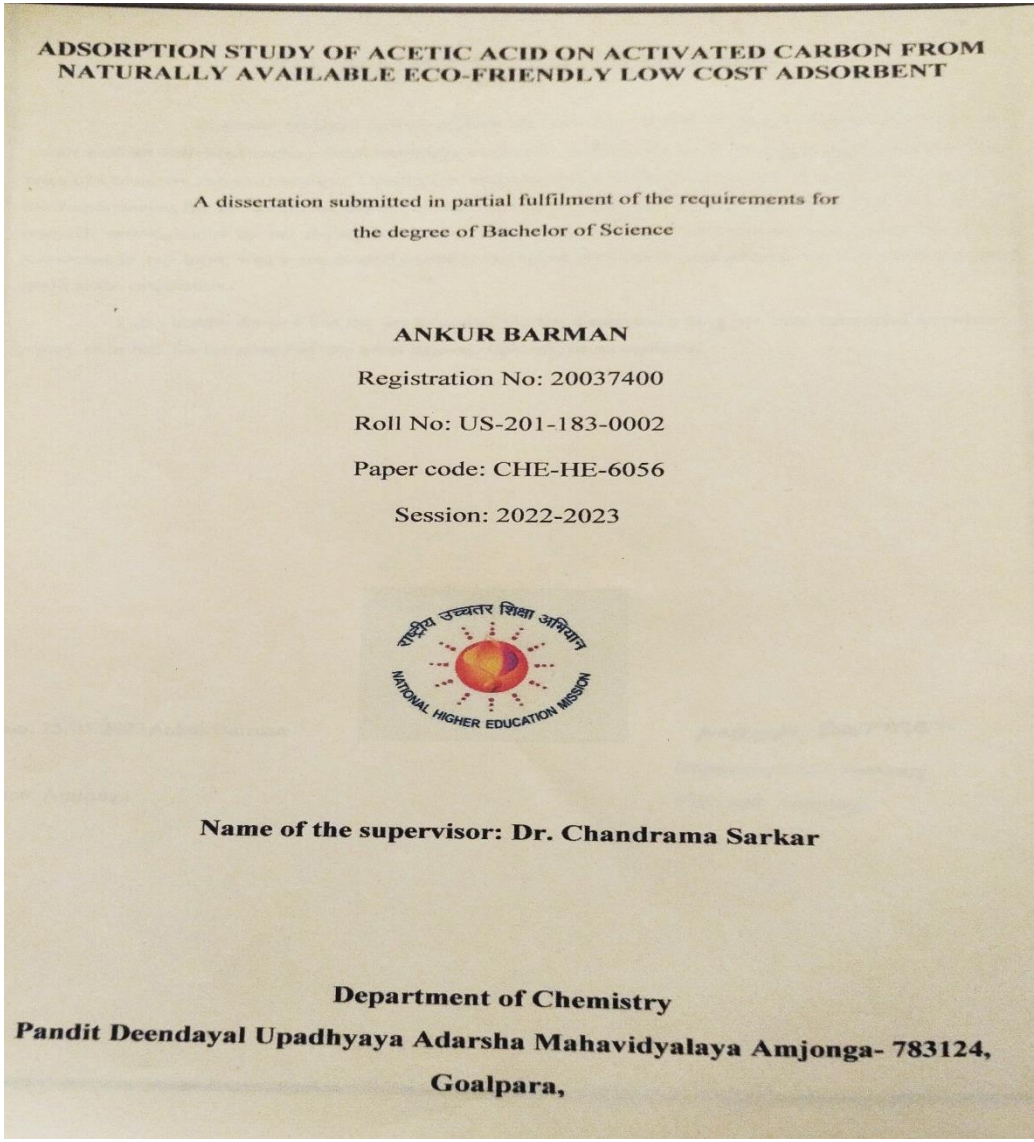

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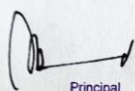
Date: 25-05-23

Place: PDUAM, Amjonga


Submitted by Abdul Kalam

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
 <p>ADSORPTION STUDY OF ACETIC ACID ON ACTIVATED CARBON FROM NATURALLY AVAILABLE ECO-FRIENDLY LOW COST ADSORBENT</p> <p>A dissertation submitted in partial fulfilment of the requirements for the degree of Bachelor of Science</p> <p>ANKUR BARMAN</p> <p>Registration No: 20037400</p> <p>Roll No: US-201-183-0002</p> <p>Paper code: CHE-HE-6056</p> <p>Session: 2022-2023</p>  <p>Name of the supervisor: Dr. Chandrama Sarkar</p> <p>Department of Chemistry Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya Amjonga- 783124, Goalpara,</p>	
Submitted by Ankur Barman	


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1.3.2	Percentage of students undertaking project work/ field work/ internship
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CERTIFICATE

This is to certify that the dissertation entitled, “Adsorption study of acetic acid on activated carbon from naturally available eco-friendly low cost adsorbent”, submitted to the department of Chemistry, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of Bachelor of Science (B.Sc.) Chemistry is a genuine record of original research investigations carried out by Ankur Barman under my supervision and guidance.

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Dr. Prasanta Gogoi
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Dr. Chandrama Sarkar
Dept of Chemistry
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Date: 25/05/2023
Place: Amjonga

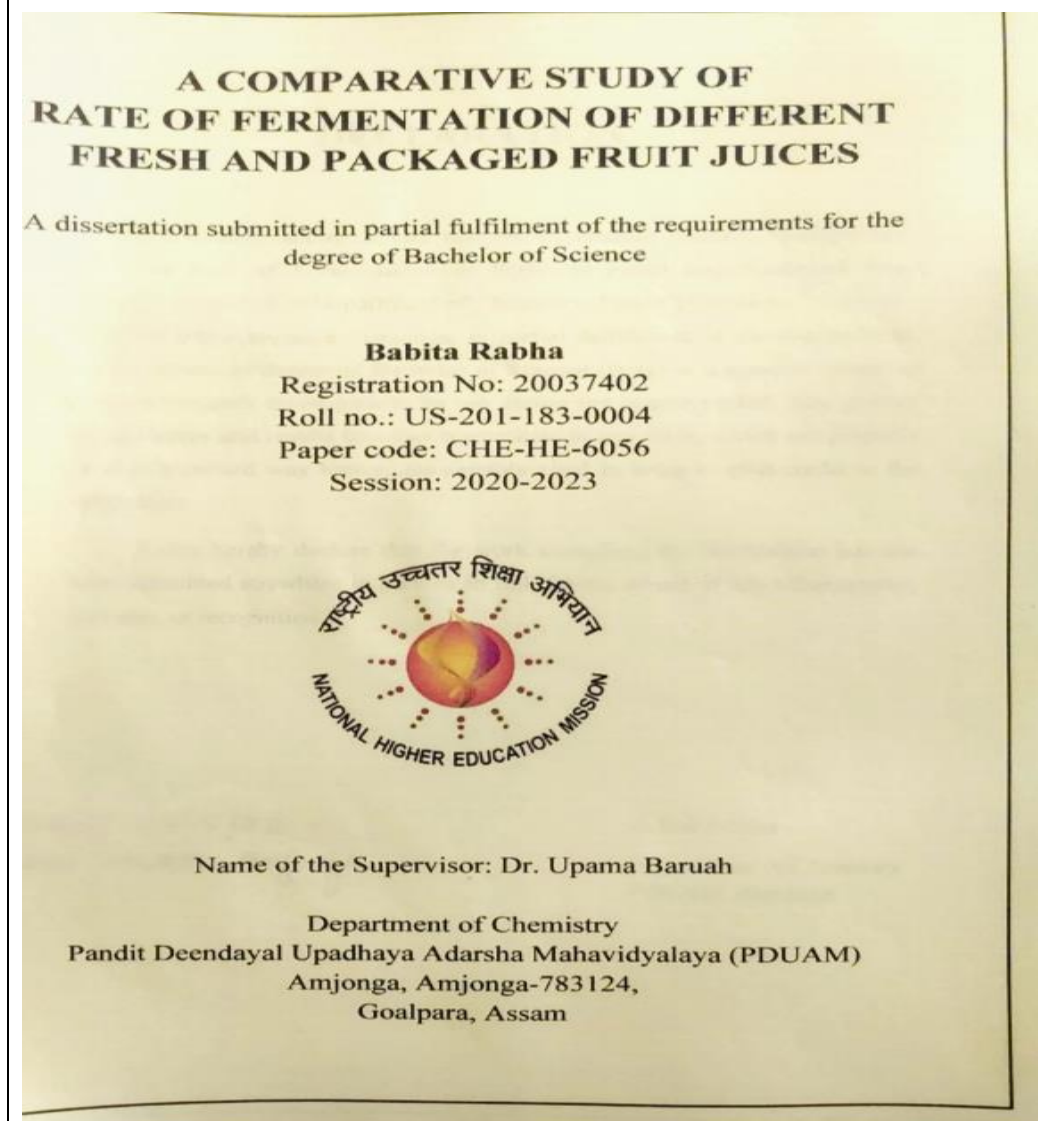
Submitted by Ankur Barman


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Adarsha Mahavidyalaya, Amjonga

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Title Page of Project



Submitted by Babita Rabha

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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Certificate



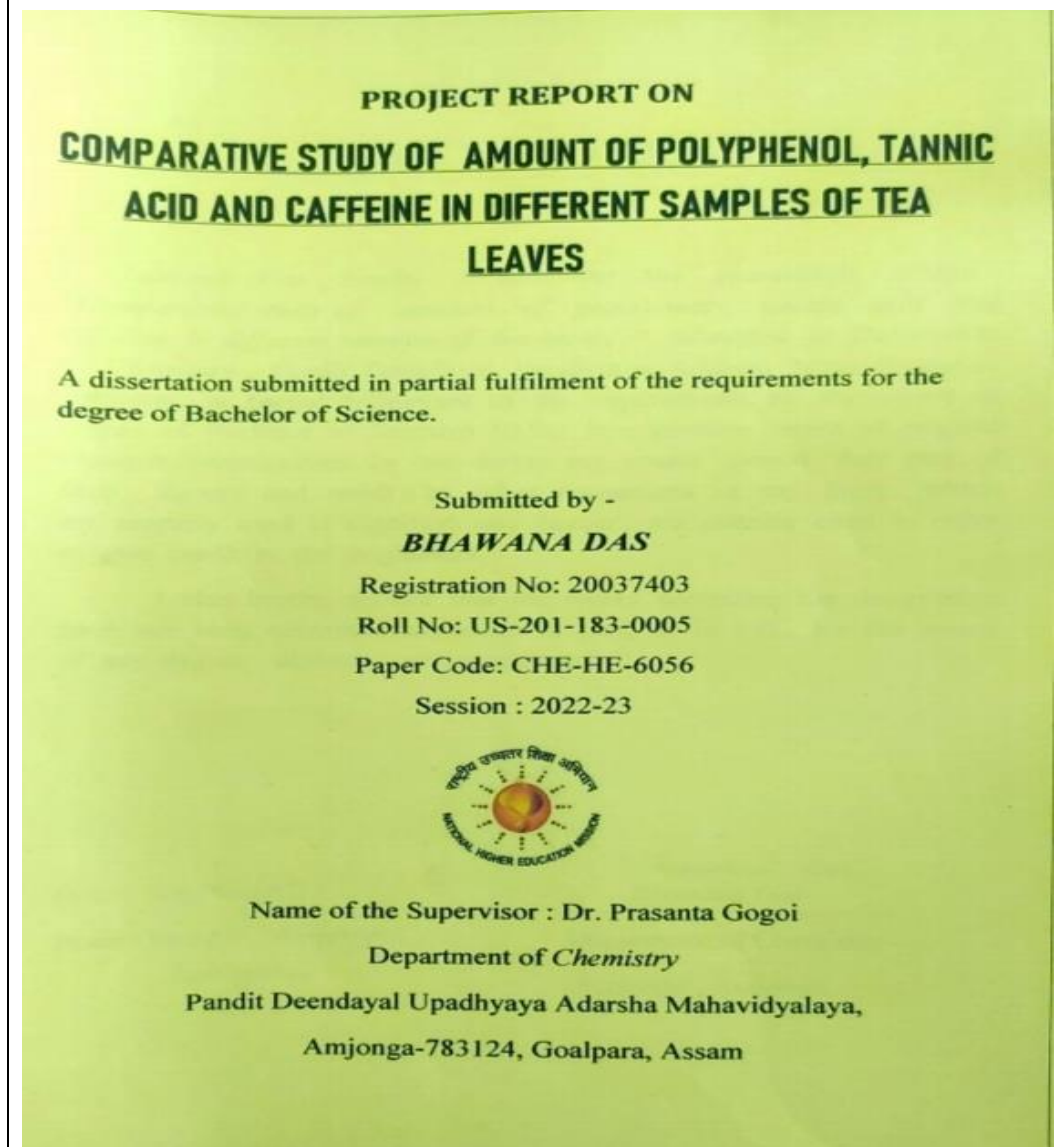
Submitted by Babita Rabha


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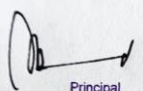
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Certificate



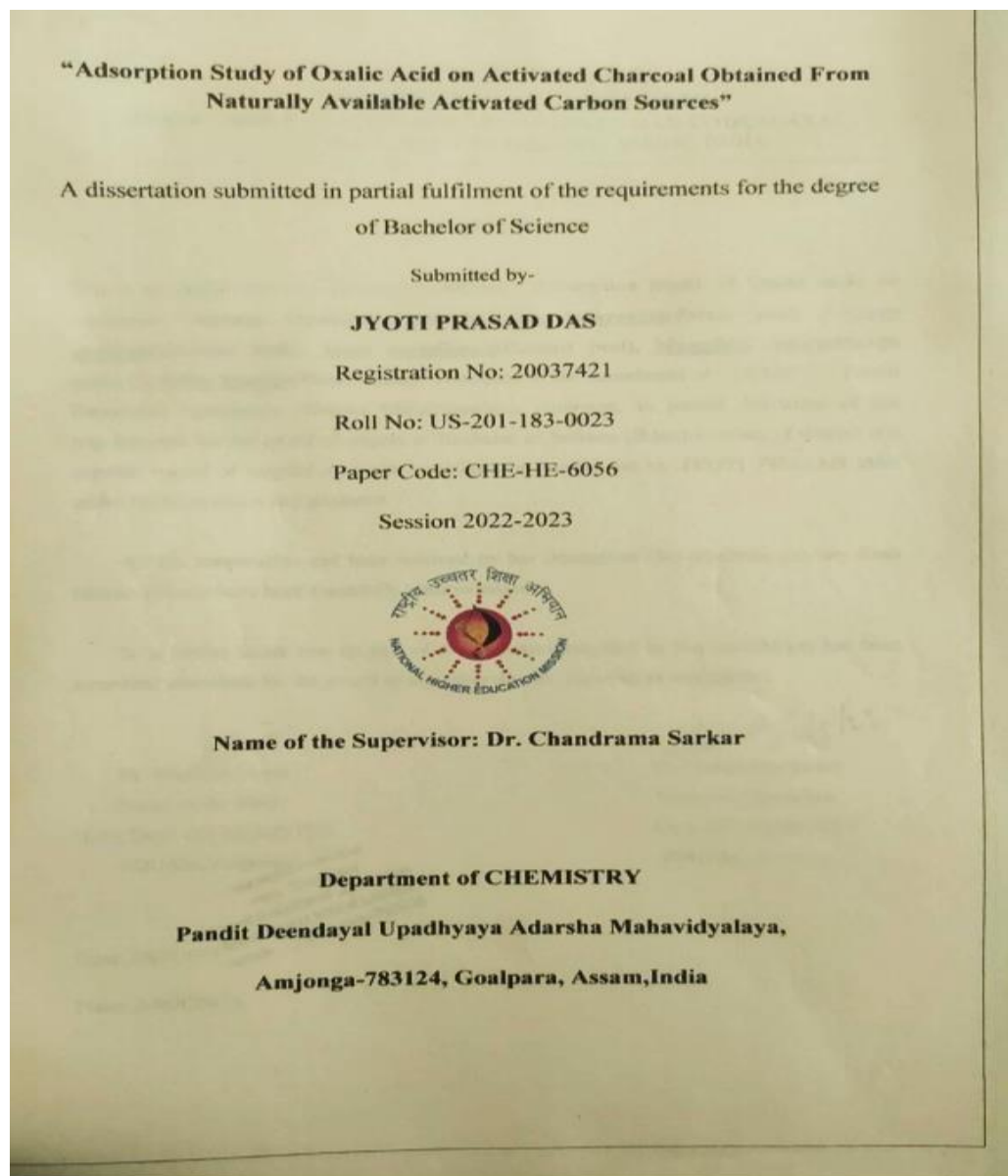
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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Title Page of Project



Submitted by Jyotiprashad Das


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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship


Certificate



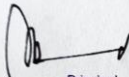
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Pandit Deendayal Upadhyaya
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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
<p>Studies on synthesis of Schiff base ligand with O, N donor atoms and their complexes</p> <p>A dissertation submitted in partial fulfilment of the requirements for the degree of Bachelor of Science</p> <p>By Kapil Bayan</p> <p>Registration No.: 20037424 Roll No.: US-201-183-0026 Paper Code: CHE-HE-6056 Session - 2022-23</p>  <p>Name of the Supervisor: Dr. Mukul Kalita</p> <p>Department of Chemistry Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga-783124 Goalpara, Assam</p>	
Submitted by Kapil Bayan	


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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

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AMJONGA:783124; GOALPARA; ASSAM;INDIA

CERTIFICATE

This is to certify that the dissertation entitled, “**Studies on synthesis of Schiff base ligand with O, N donor atoms and their complexes**” submitted to the Department of Chemistry, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of Bachelor of Science (BSc) in Chemistry is a genuine record of original research investigation carried out by **KAPIL BAYAN** under my supervision and guidance.

All the cooperation and help received by him throughout this academic journey from various sources have been thankfully acknowledged.

It is further stated that no part of the contents compiled in this dissertation has been submitted elsewhere for the award of any other degree, diploma, or recognition.

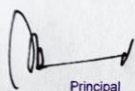

Dr. Prasanta Kumar
Asstt. Professor
Dept. of Chemistry
PDUAM, Amjonga
Amjonga

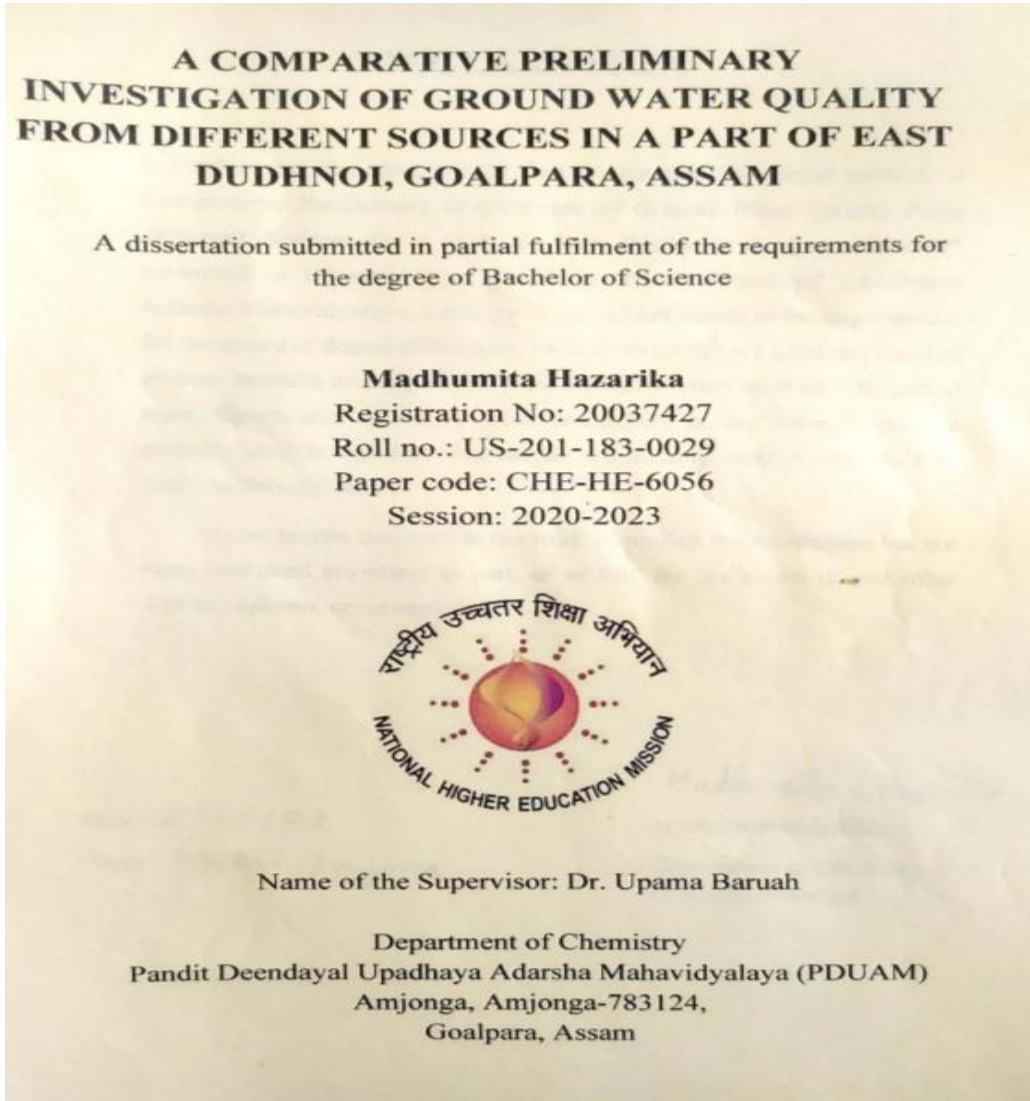

Dr. Mukul Kalita
Asstt. Professor,
Dept. Chemistry
PDUAM

Date : 25/05/2023

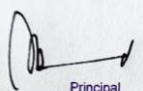
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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
 <p>A COMPARATIVE PRELIMINARY INVESTIGATION OF GROUND WATER QUALITY FROM DIFFERENT SOURCES IN A PART OF EAST DUDHNOI, GOALPARA, ASSAM</p> <p>A dissertation submitted in partial fulfilment of the requirements for the degree of Bachelor of Science</p> <p>Madhumita Hazarika Registration No: 20037427 Roll no.: US-201-183-0029 Paper code: CHE-HE-6056 Session: 2020-2023</p> <p>राष्ट्रीय उच्चतर शिक्षा अभियान NATIONAL HIGHER EDUCATION MISSION</p> <p>Name of the Supervisor: Dr. Upama Baruah</p> <p>Department of Chemistry Pandit Deendayal Upadhaya Adarsha Mahavidyalaya (PDUAM) Amjonga, Amjonga-783124, Goalpara, Assam</p>	
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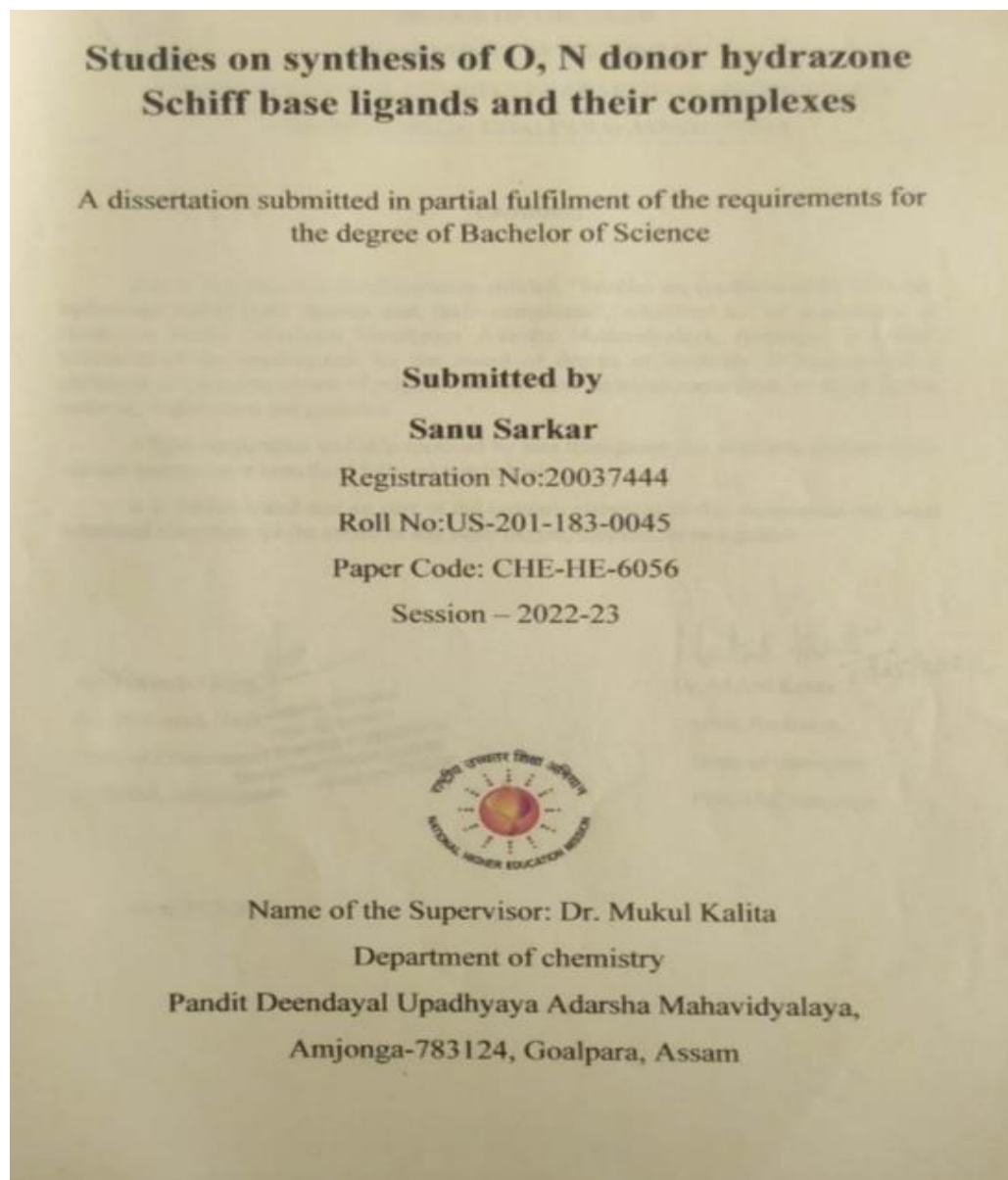
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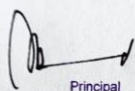
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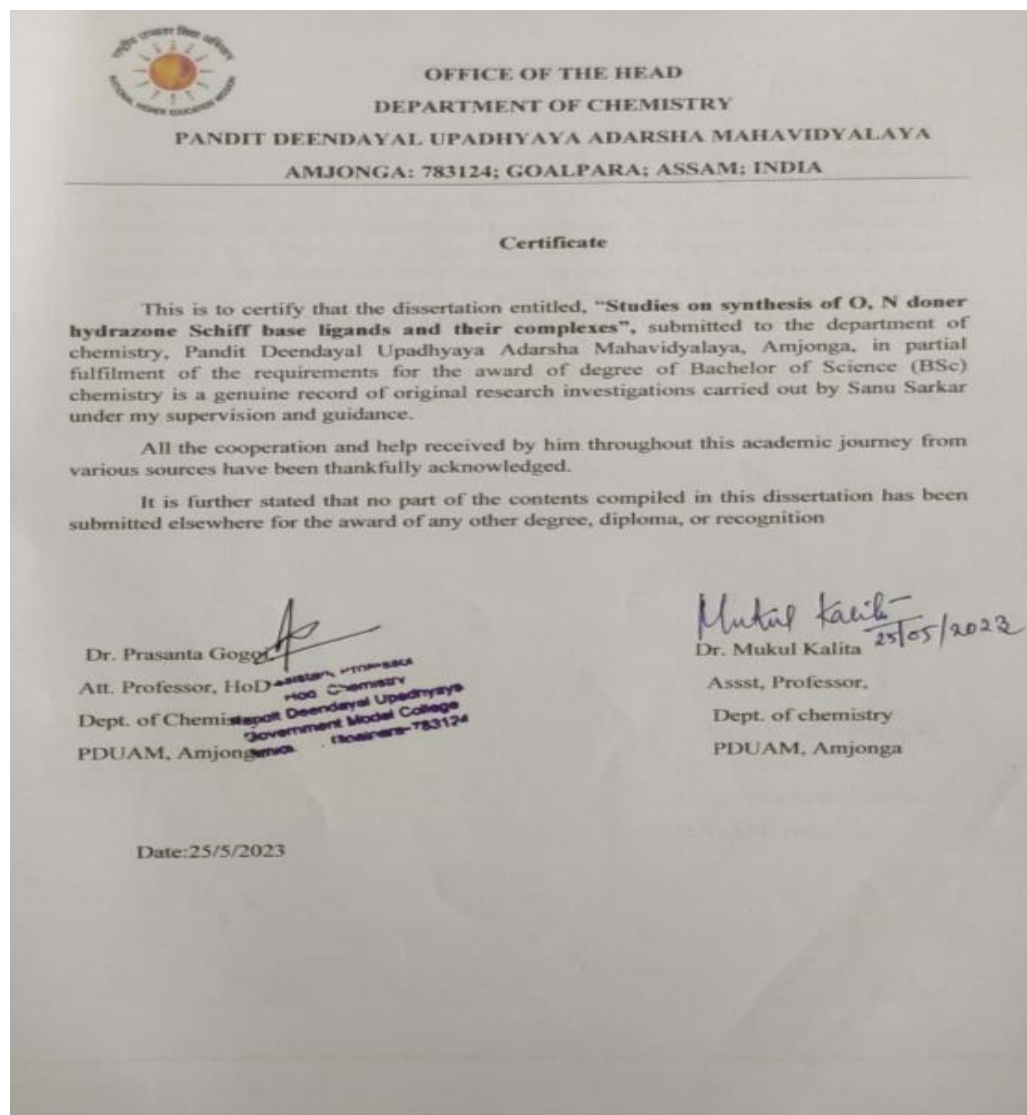
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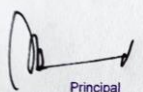
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Metric No	Heading
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Title Page of Project	
<p>HOSPITAL MANAGEMENT SYSTEM</p> <p>PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE DEGREE OF</p> <p>BACHELOR OF SCIENCE IN COMPUTER SCIENCE</p> <p>BY</p> <p>ANUPAM KUMAR NATH US-201-183-0003</p> <p>UNDER THE GUIDANCE OF</p> <p>SISIR KUMAR RAJBONGSHI</p>  <p>DEPARTMENT OF COMPUTER SCIENCE PANDIT DEENDAYAL UPADHYAYA ADARSHA MAHAVIDYALAYA AMJONGA, GOALPARA - 783124, ASSAM JANUARY, 2023</p>	
Submitted by Anupam Kumar Nath	

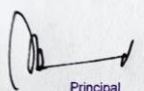

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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Certificate	
<div style="text-align: center;">  <p>PANDIT DEENDAYAL UPADHYAYA ADARSHA MAHAVIDYALAYA, AMJONGA DEPARTMENT OF COMPUTER SCIENCE</p> <p>Forwarding Certificate</p> <p>This is to certify that ANUPAM KUMAR NATH .. has carried out the project work HOSPITAL MANAGEMENT SYSTEM under the supervision and has compiled this thesis reflecting the candidates work in the semester long project. The candidate(s) did this project full time during the whole semester under my supervision, and the analysis, results, claims, etc. are all related to his/her/their studies and works during the semester.</p> <p>I recommend submission of this project report as a part for partial fulfilment of the requirements for the degree of Bachelor of Science in Computer Science.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  External Examiner Affiliation: </div> <div style="text-align: center;">  DR. SISIR KUMAR RAJBONGSHI Department of Computer Science, PDUAM, Amjonga, Goalpara - 783123, Assam </div> </div> </div>	
Submitted by Anupam Kumar nath	

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
 <p>ONLINE VOTING SYSTEM PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE BY</p> <p>NAME OF STUDENT:BITTU PATGIRI ROLL NO:US-201 183 0007</p> <p>UNDER THE GUIDANCE OF SISIR KUMAR RAJBONGSHI ASSISTANT PROFESSOR DEPARTMENT OF COMPUTER SCIENCE AMJONGA, GOALPARA - 783124, ASSAM JANUARY, 2023</p>	
Submitted by Bittu Patgiri	


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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

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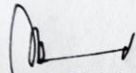
I recommend submission of this project report as a part for partial fulfilment of the requirements for the degree of Bachelor of Science in Computer Science.



External Examiner
Affiliation:
Dr. Rubul Kumar Bania
Assistant Professor
Department of Computer Application
School of Technology
NEHU, Tura Campus


NAME OF THE PROJECT- **ONLINE VOTING SYSTEM**
GUIDE **SISIR KUMAR RAJBONGSHI**
Department of Computer Science,
PDUAM, Amjonga,
Goalpara-783123, Assam

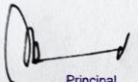
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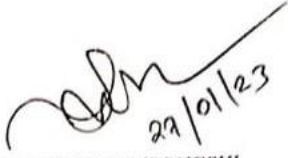

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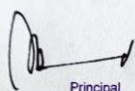
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Title Page of Project	
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Submitted by Denish Sarma	



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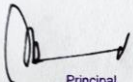
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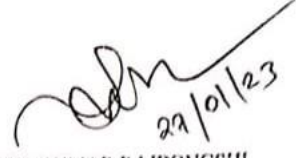

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<p>HOSPITAL MANAGEMENT SYSTEM</p> <p>PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE DEGREE OF</p> <p>BACHELOR OF SCIENCE IN COMPUTER SCIENCE</p> <p>BY</p> <p>JULFIKAR JITU RAHMAN <i>US-201-183-0021</i></p> <p>UNDER THE GUIDANCE OF</p> <p>SISIR KUMAR RAJBONGSHI</p>  <p>DEPARTMENT OF COMPUTER SCIENCE PANDIT DEENDAYAL UPADHYAYA ADARSHA MAHAVIDYALAYA AMJONGA, GOALPARA - 783124, ASSAM JANUARY, 2023</p>	
Submitted by Julfikar Jitu Rahman	

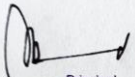

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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Certificate	
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Submitted by Julfikar Jitu Rahman	

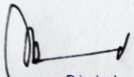
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1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
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Submitted by Nobodol M Sangma	



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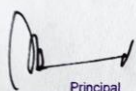
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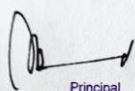
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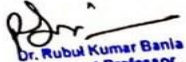

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 <p>DEPARTMENT OF COMPUTER SCIENCE PANDIT DEENDAYAL UPADHYAYA ADARSHA MAHAVIDYALAYA AMJONGA, GOALPARA - 783124, ASSAM JANUARY, 2023</p> <p style="text-align: center;">Forwarding Certificate</p> <p>This is to certify that Plaban Goswami has carried out the project work “ONLINE VOTING SYSTEM” under the supervision and has compiled this thesis reflecting the candidates work in the semester long project. The candidate/(s) did this project full time during the whole semester under my supervision, and the analysis, results, claims, etc. are all related to his/her/their studies and works during the semester.</p> <p>I recommend submission of this project report as a part for partial fulfilment of the requirements for the degree of Bachelor of Science in Computer Science.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>External Examiner Affiliation: Dr. Rubul Kumar Bania Assistant Professor Department of Computer Application School of Technology NEHU, Tura Campus</p> </div> <div style="text-align: center;">  <p>NAME OF THE PROJECT - ONLINE VOTING SYSTEM GUIDE SISIR KUMAR RAJBONGSHI Department of Computer Science, PDUAM, Amjonga, Goalpara-783123, Assam</p> </div> </div>	
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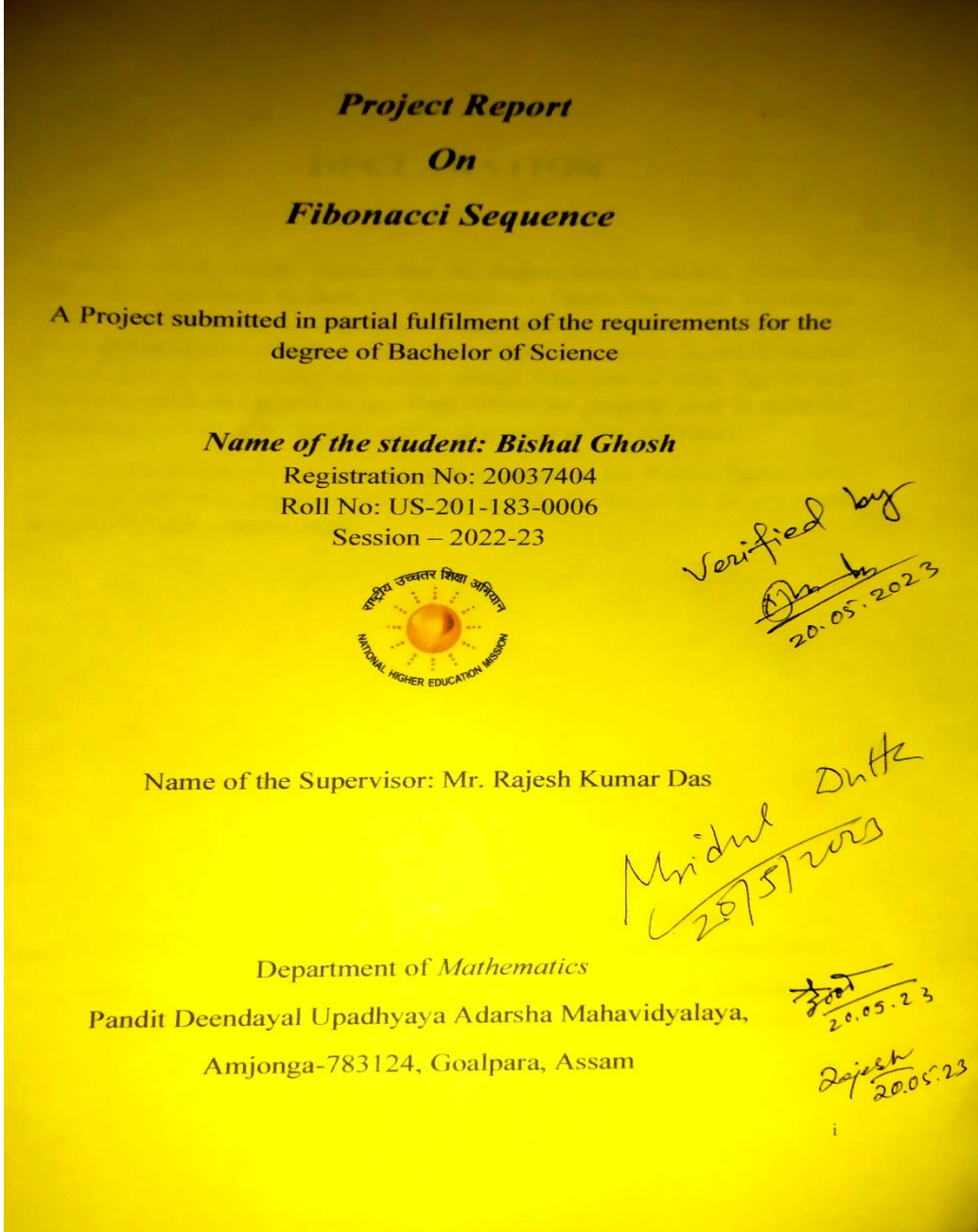


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1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
<div style="text-align: center;">  <p>LOPRAI SHANSHALI E-WEB SITE</p> <p>PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE DEGREE OF</p> <p>BACHELOR OF SCIENCE IN COMPUTER SCIENCE</p> <p>BY</p> <p>Rami Kashyap Basumatary US-201-183-0041</p> <p>UNDER THE GUIDANCE OF</p> <p>Dharmeswar Tarang</p> <p><i>Examined by</i>  Dr. Rubul Kumar Banla Assistant Professor Department of Computer Application School of Technology NEHU, Tura Campus</p> </div>	
Submitted by Rami Kashyap Basumatary	

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Certificate	
<div style="text-align: center;">  <p>PANDIT DEENDAYAL UPADHYAYA ADARSHA MAHAVIDYALAYA, AMJONGA DEPARTMENT OF COMPUTER SCIENCE</p> <p>Forwarding Certificate</p> <p>This is to certify that Rami Kashyap Basumatary has carried out the project work "E-Clothing Website" under the supervision and has compiled this thesis reflecting the candidates work in the semester long project. The candidate did this project full time during the whole semester under my supervision, and the analysis, results, claims, etc. are all related to his studies and works during the semester.</p> <p>I recommend submission of this project report as a part for partial fulfilment of the requirements for the degree of Bachelor of Science in Computer Science.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><i>[Signature]</i> External Examiner Affiliation: Dr. Rubul Kumar Bania Assistant Professor Department of Computer Application School of Technology NEHU, Tura Campus</p> </div> <div style="text-align: center;"> <p><i>[Signature]</i> Rami Kashyap Basumatary Dharmeswar Tarang Department of Computer Science, PDUAM, Amjonga, Goalpara - 783124, Assam</p> </div> </div> </div>	
Submitted by Rami Kashyap Basumatary	

[Signature]
Coordinator
IQAC, PDUAM, Amjonga
Goalpara-783124

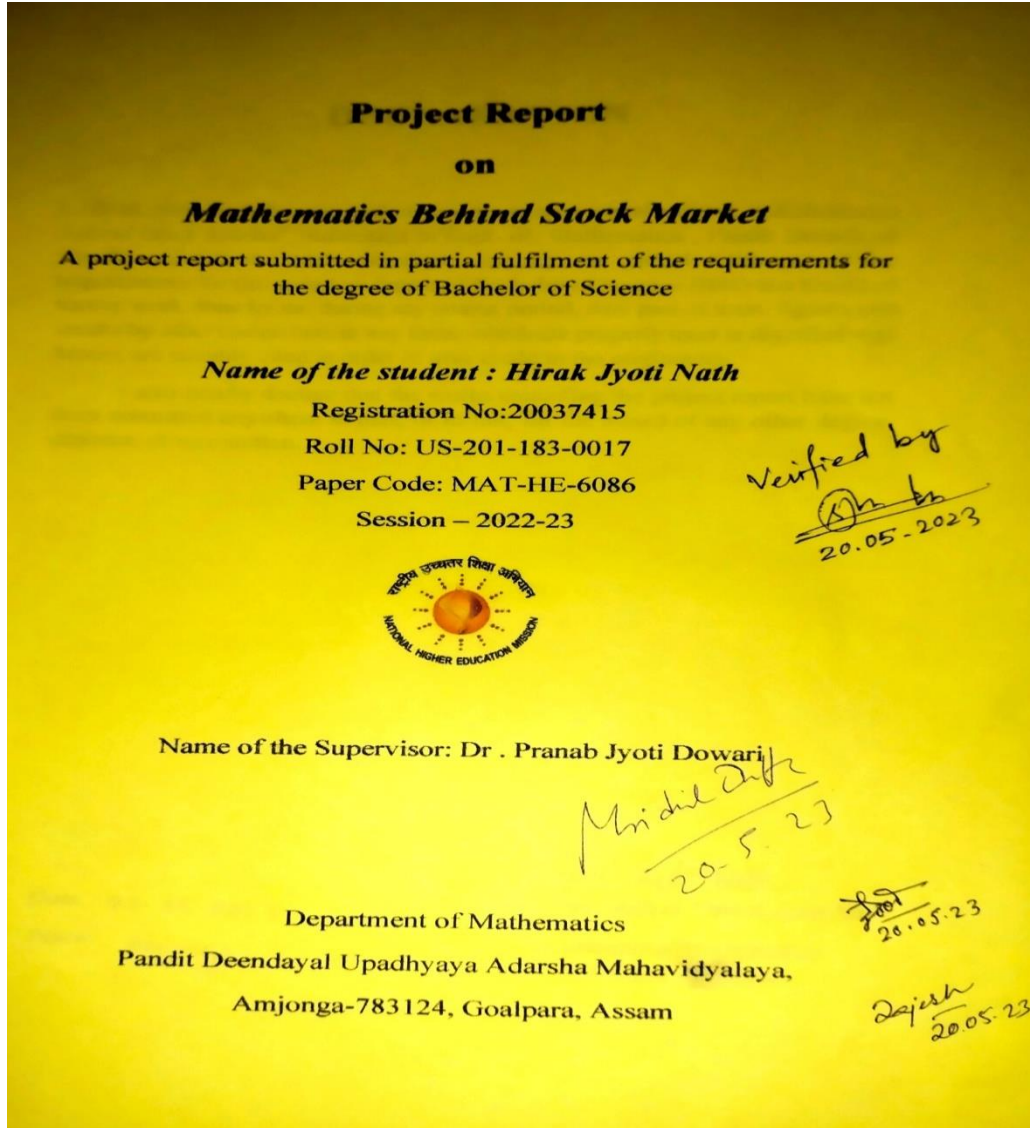
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Principal
Pandit Deendayal Upadhyaya
Adarsha Mahavidyalaya, Amjonga

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
 <p style="text-align: center;">Project Report On Fibonacci Sequence</p> <p style="text-align: center;">A Project submitted in partial fulfilment of the requirements for the degree of Bachelor of Science</p> <p style="text-align: center;">Name of the student: Bishal Ghosh Registration No: 20037404 Roll No: US-201-183-0006 Session – 2022-23</p> <p style="text-align: center;">  राष्ट्रीय उच्चतर शिक्षा अभियान NATIONAL HIGHER EDUCATION MISSION </p> <p style="text-align: center;">Name of the Supervisor: Mr. Rajesh Kumar Das</p> <p style="text-align: center;">Department of <i>Mathematics</i> Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga-783124, Goalpara, Assam</p> <p style="text-align: center;">Submitted by Bishal Ghosh</p>	

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Certificate	
<p>Department of Mathematics</p> <hr/> <p>Certificate</p> <p>This is to certify that the dissertation entitled, "<i>Fibonacci Sequence</i>", submitted to the department of Mathematics, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of Bachelor of Science (BSc) in <i>Mathematics</i> is a genuine record of original survey carried out by <i>Bishal Ghosh</i> under my supervision and guidance.</p> <p>All the cooperation and help received by him/her throughout this academic journey from various sources have been thankfully acknowledged.</p> <p>It is further stated that no part of the contents compiled in this Project Report has been submitted elsewhere for the award of any other degree, diploma, or recognition</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <i>20.05.2023</i> Dr. Shahidul Islam Khan HoD, Dept. of Mathematics PDUAM, Amjonga </div> <div style="text-align: center;">  <i>20.05.2023</i> Mr. Rajesh Kumar Das Dept. of Mathematics PDUAM, Amjonga </div> </div> <div style="margin-top: 20px;"> <p>Date: <i>20/05/23</i></p> <p>Place: <i>Amjonga</i></p> </div>	
Submitted by Bishal Ghosh	

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

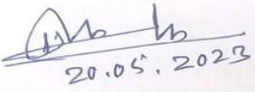
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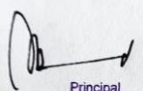
Submitted by HIRAKJYOTI NATH

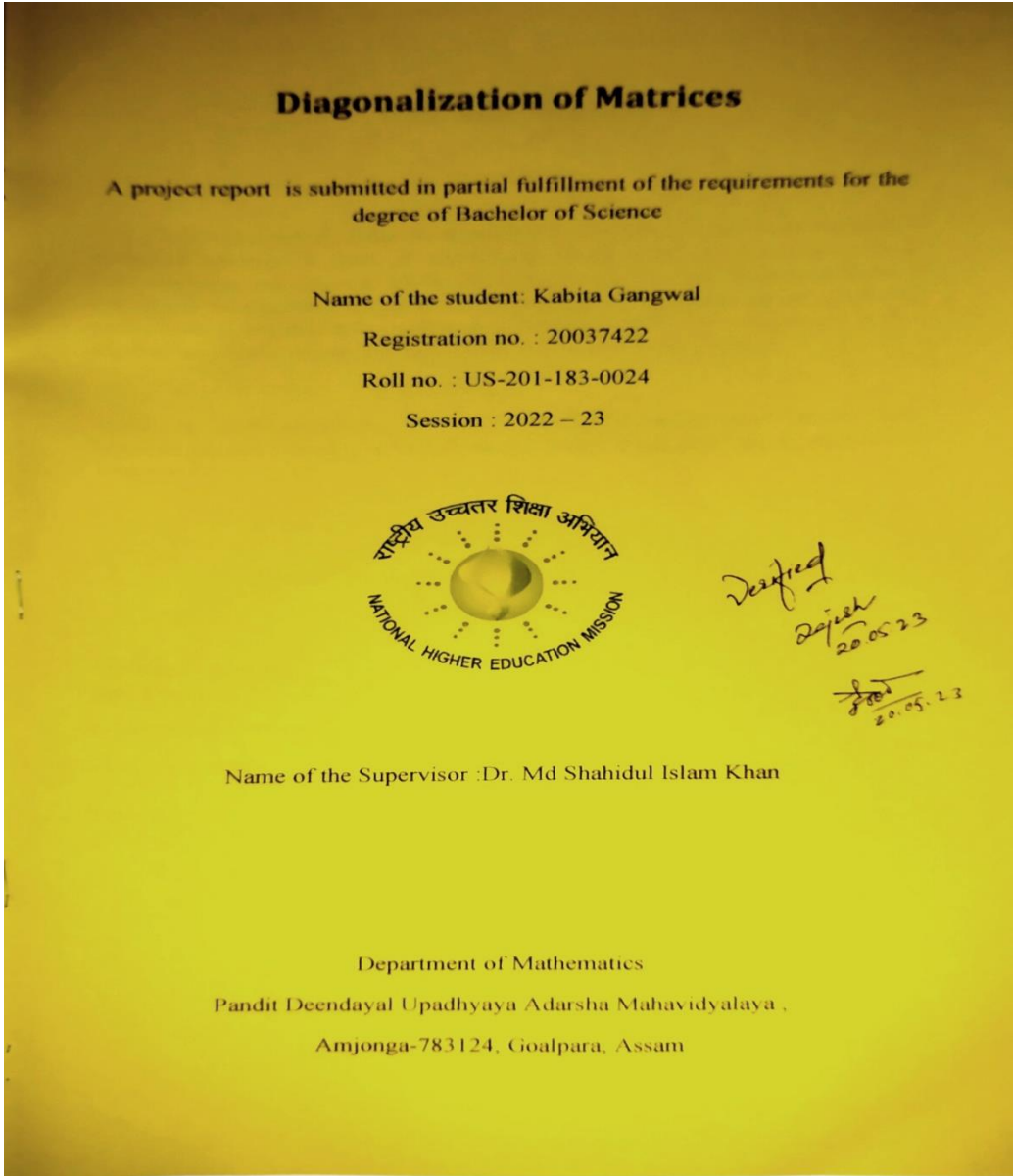
[Signature]
Coordinator
IQAC, PDUAM, Amjonga
Goalpara-783124

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Principal
Pandit Deendayal Upadhyaya
Adarsha Mahavidyalaya, Amjonga

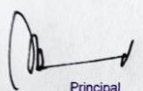
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Certificate	
<div style="text-align: center;">  <p>Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya , Amjonga Departmental of Mathematics</p> <hr/> <p>Certificate</p> <p>This is to certify that the project report entitled, “<i>Mathematics Behind Stock Market</i>”, submitted to the department of Mathematics , Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of Bachelor of Science (B.Sc.) in <i>Mathematics</i> is a record of survey work carried out by <i>Hirak Jyoti Nath</i> under my supervision and guidance.</p> <p>All the cooperation and help received by him/her throughout this academic journey from various sources have been thankfully acknowledged.</p> <p>It is further stated that no part of the contents compiled in this project report has been submitted elsewhere for the award of any other degree, diploma, or recognition.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>20.05.2023</p> <p><i>Dr . Shahidul Islam Khan</i> HoD, Dept. of Mathematics PDUAM, Amjonga</p> </div> <div style="text-align: center;">  <p>20.05.23</p> <p><i>Dr . Pranab Jyoti Dowari</i> Dept. of Mathematics PDUAM, Amjonga</p> </div> </div> </div>	
Submitted by Hirak Jyoti Nath	

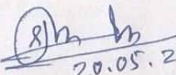
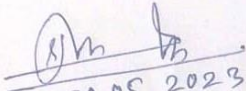

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 Contact: 783124


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 Adarsha Mahavidyalaya, Amjonga

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
	
Submitted by Kabita Gangwal	

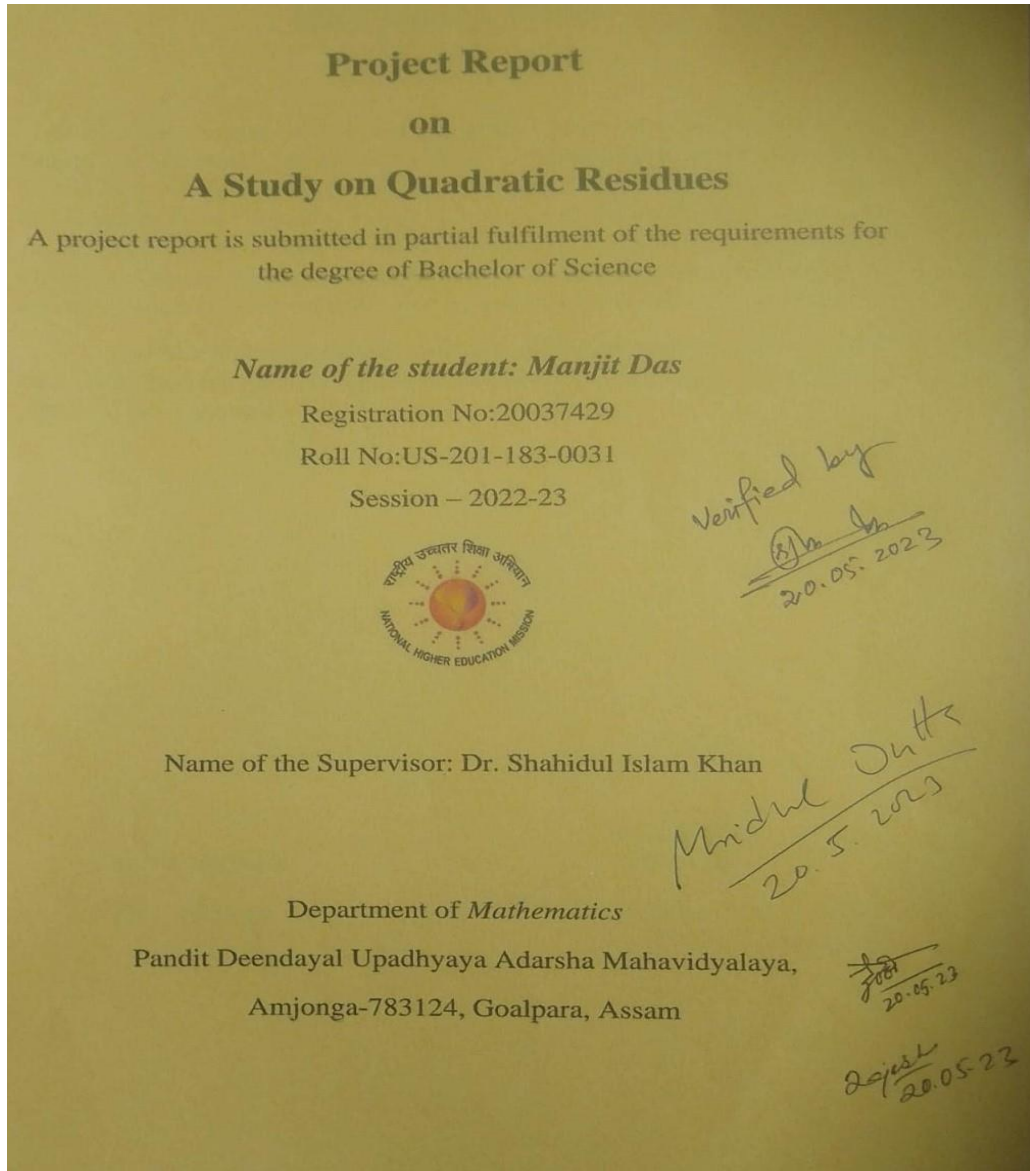

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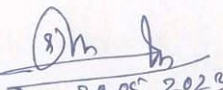
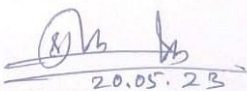

 Principal
 Pandit Deendayal Upadhyaya
 Adarsha Mahavidyalaya, Amjonga

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Certificate	
<div style="text-align: center;"><u>Certificate</u></div> <p>This is to certify that the project report entitled, "Diagonalization of Matrices", submitted to the department of Mathematics, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfillment of the requirements for the award of degree of Bachelor of Science (BSc) in Mathematics is a record of survey carried out by Kabita Gangwal under my supervision and guidance.</p> <p>All the cooperations and help received by her throughout this academic journey from various sources have been thankfully acknowledged.</p> <p>It is further stated that no part of the contents compiled in this project report has been submitted elsewhere for the award of any other degree, diploma or recognition.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <u>20.05.2023</u> Dr. Md Shahidul Islam Khan HoD, Dept. of Mathematics PDUAM, Amjonga </div> <div style="text-align: center;">  <u>20.05.2023</u> Dr. Md Shahidul Islam Khan Dept. of Mathematics PDUAM, Amjonga </div> </div>	

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

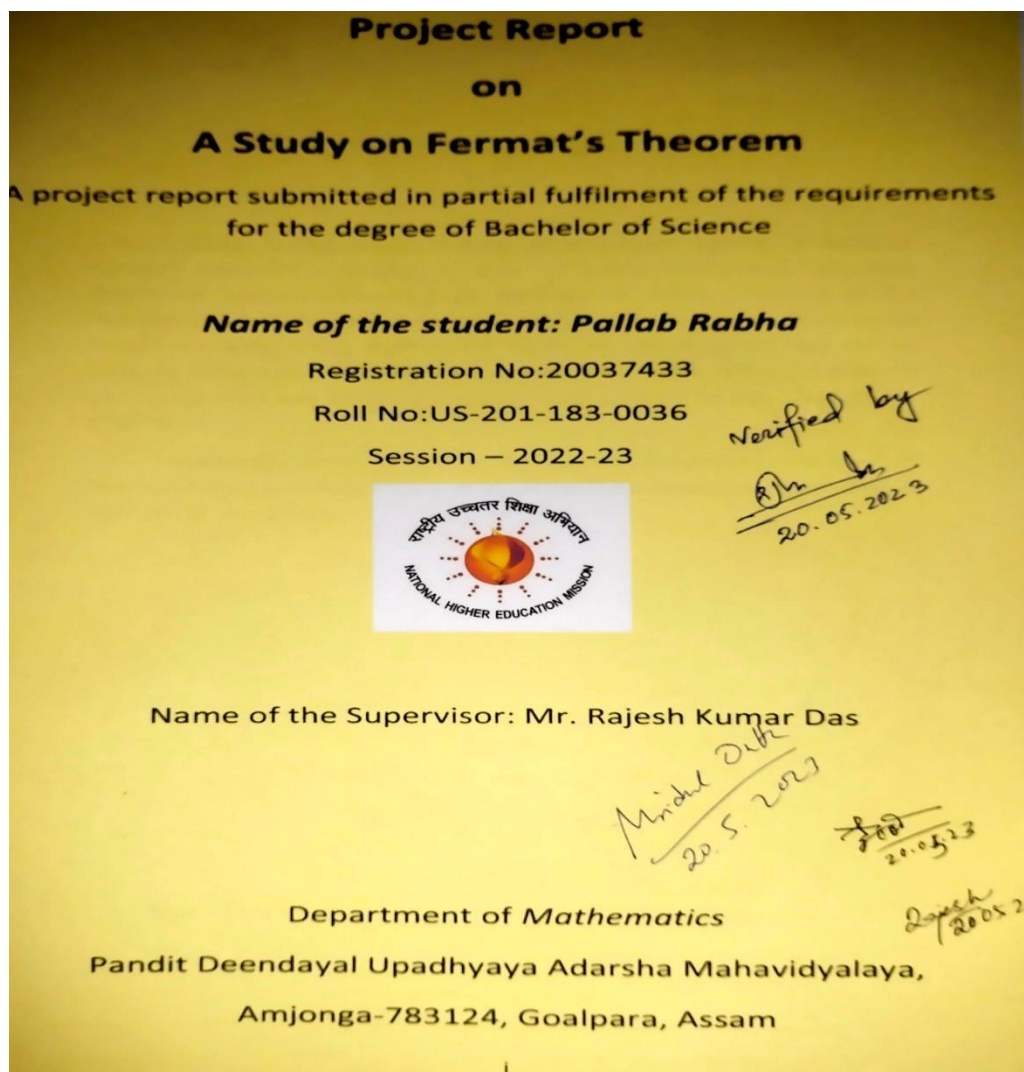
Title Page of Project



Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Certificate	
<div style="text-align: center;">  <p>Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga</p> <p>Department of Mathematics</p> <hr/> <p>Certificate</p> <p>This is to certify that the project report entitled, “A Study on Quadratic Residues”, submitted to the Department of Mathematics, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of Bachelor of Science (BSc) in mathematics is a genuine record of survey work carried out by Manjit Das under my supervision and guidance.</p> <p>All the cooperation and help received by him throughout this academic journey from various sources have been thankfully acknowledged.</p> <p>It is further stated that no part of the contents compiled in this project report has been submitted elsewhere for the award of any other degree, diploma, or recognition</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  20.05.2023 Dr. Shahidul Islam Khan, HoD, Dept. of Mathematics PDUAM, Amjonga </div> <div style="text-align: center;">  20.05.23 Dr. Shahidul Islam Khan Dept. of Mathematics PDUAM, Amjonga </div> </div> </div>	
Submitted by Manjit Das	

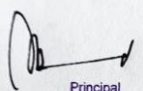
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1.3.2	Percentage of students undertaking project work/ field work/ internship


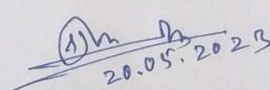
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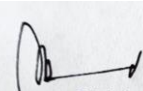
Submitted by Pallab Rabha

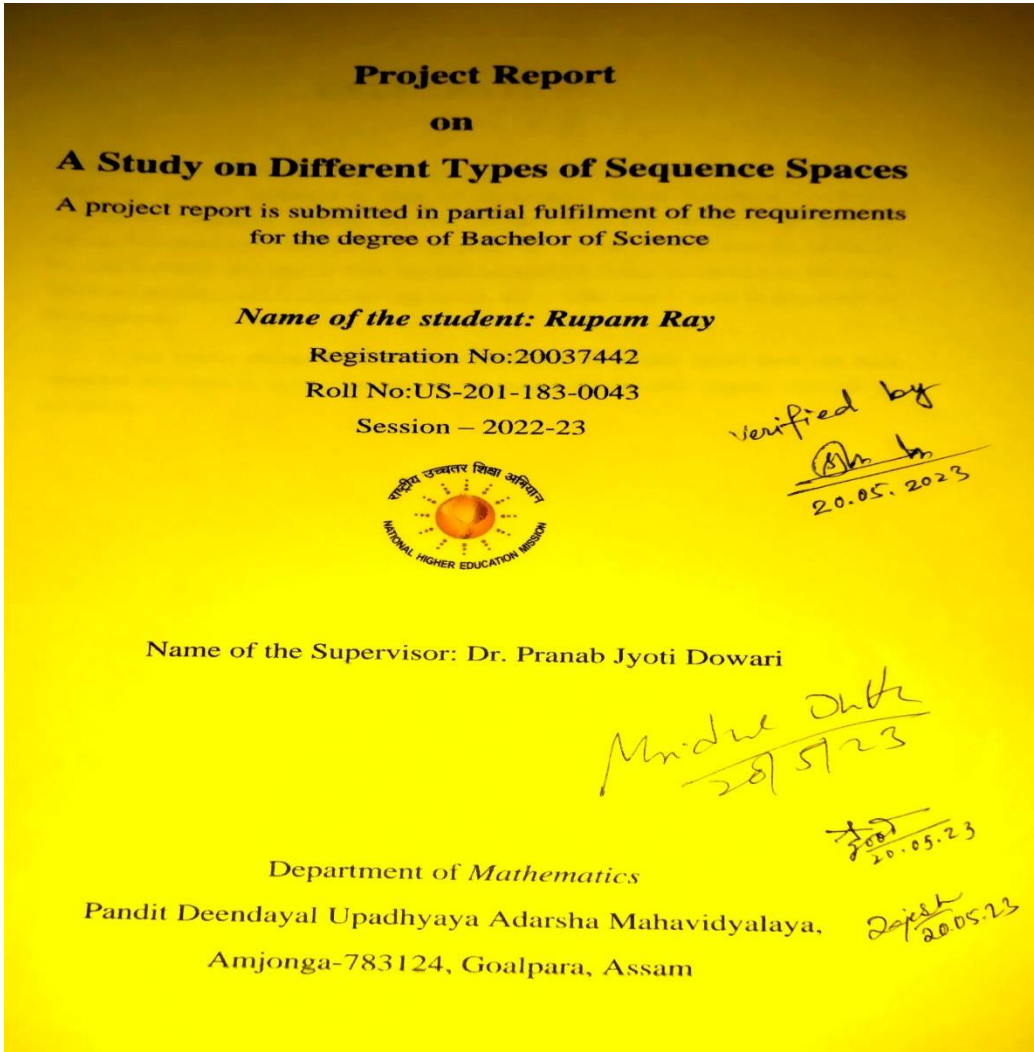


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Pandit Deendayal Upadhyaya
Adarsha Mahavidyalaya, Amjonga

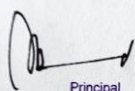
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Certificate	
 <p>Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga Department of Mathematics</p> <hr/> <p>Certificate</p> <p>This is to certify that the project report entitled, "<i>A Study on Fermat's Theorem</i>", submitted to the Department of Mathematics, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of Bachelor of Science (BSc) in <i>Mathematics</i> is a genuine record of original survey carried out by <i>Pallab Rabha</i> under my supervision and guidance.</p> <p>All the cooperation and help received by him/her throughout this academic journey from various sources have been thankfully acknowledged.</p> <p>It is further stated that no part of the contents compiled in this project work has been submitted elsewhere for the award of any other degree, diploma, or recognition</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <i>Dr. Shahidul Islam Khan</i> HoD, Dept. of Mathematics PDUAM, Amjonga </div> <div style="text-align: center;">  <i>Mr. Rajesh Kumar Das</i> Dept. of Mathematics PDUAM, Amjonga </div> </div>	
Submitted by Pallab Rabha	


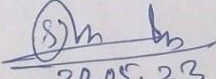
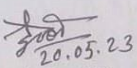

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 Contact No: 783124

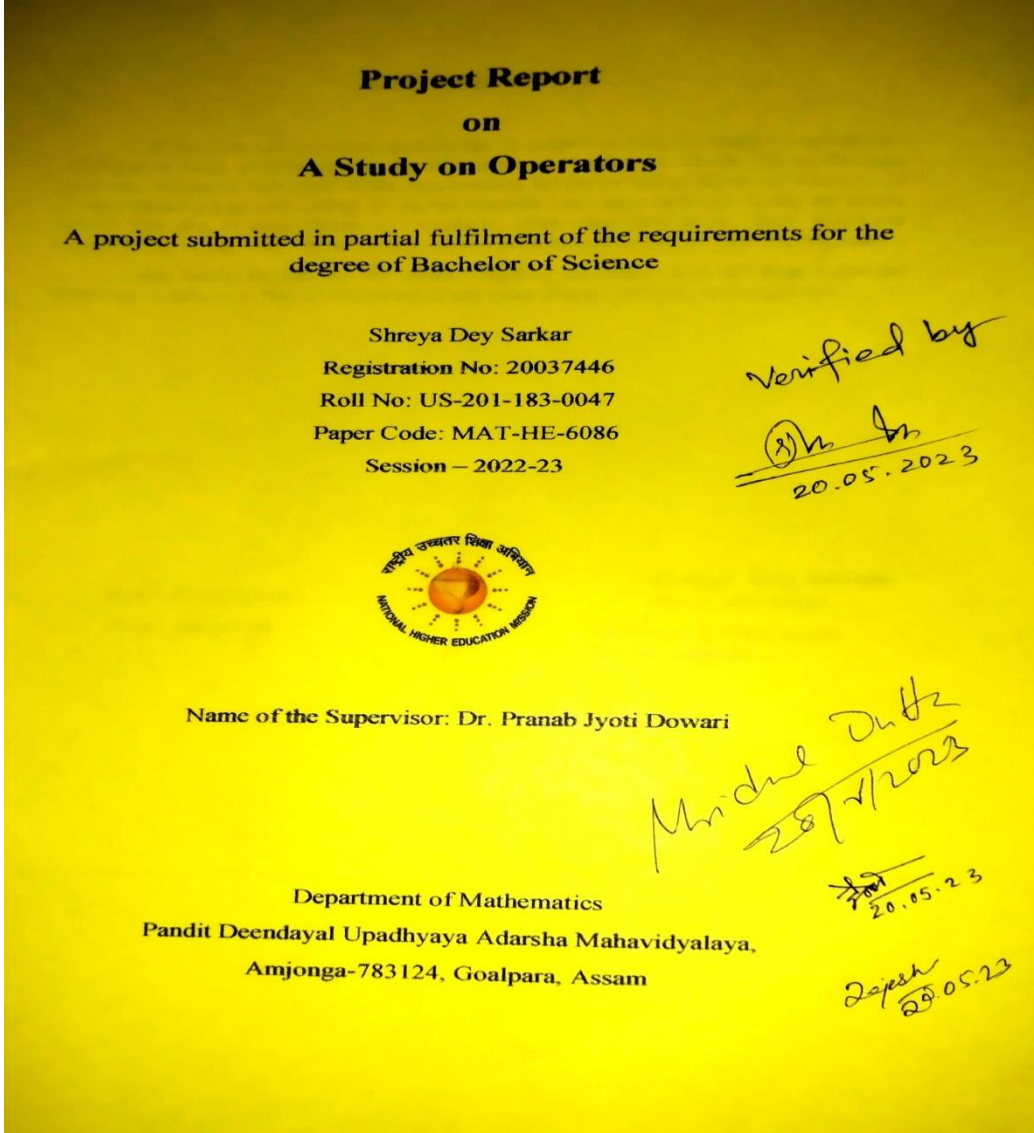


 Principal
 Pandit Deendayal Upadhyaya
 Adarsha Mahavidyalaya, Amjonga

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
 <p style="text-align: center;">Project Report on A Study on Different Types of Sequence Spaces A project report is submitted in partial fulfilment of the requirements for the degree of Bachelor of Science</p> <p style="text-align: center;">Name of the student: Rupam Ray Registration No:20037442 Roll No:US-201-183-0043 Session – 2022-23</p> <p style="text-align: center;">  Name of the Supervisor: Dr. Pranab Jyoti Dowari </p> <p style="text-align: center;">Department of <i>Mathematics</i> Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga-783124, Goalpara, Assam</p>	
Submitted by Rupam Ray	

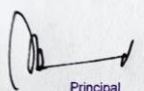

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 Pandit Deendayal Upadhyaya
 Adarsha Mahavidyalaya, Amjonga

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Certificate	
 <p style="text-align: center;">Certificate</p> <p>This is to certify that the project report entitled, “<i>A Study on Different Types of Sequence Spaces</i>”, submitted to the Department of Mathematics, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of Bachelor of Science (BSc) in <i>Mathematics</i> is a genuine record of survey work carried out by <i>Rupam Ray</i> under my supervision and guidance.</p> <p>All the cooperation and help received by him/her throughout this academic journey from various sources have been thankfully acknowledged.</p> <p>It is further stated that no part of the contents compiled in this project report has been submitted elsewhere for the award of any other degree, diploma, or recognition</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  20.05.23 Dr. Shahidul Islam Khan, HoD, Dept. of Mathematics PDUAM, Amjonga </div> <div style="text-align: center;">  20.05.23 Dr. Pranab Jyoti Dowari Dept. of Mathematics PDUAM, Amjonga </div> </div>	
Submitted by Rupam Ray	

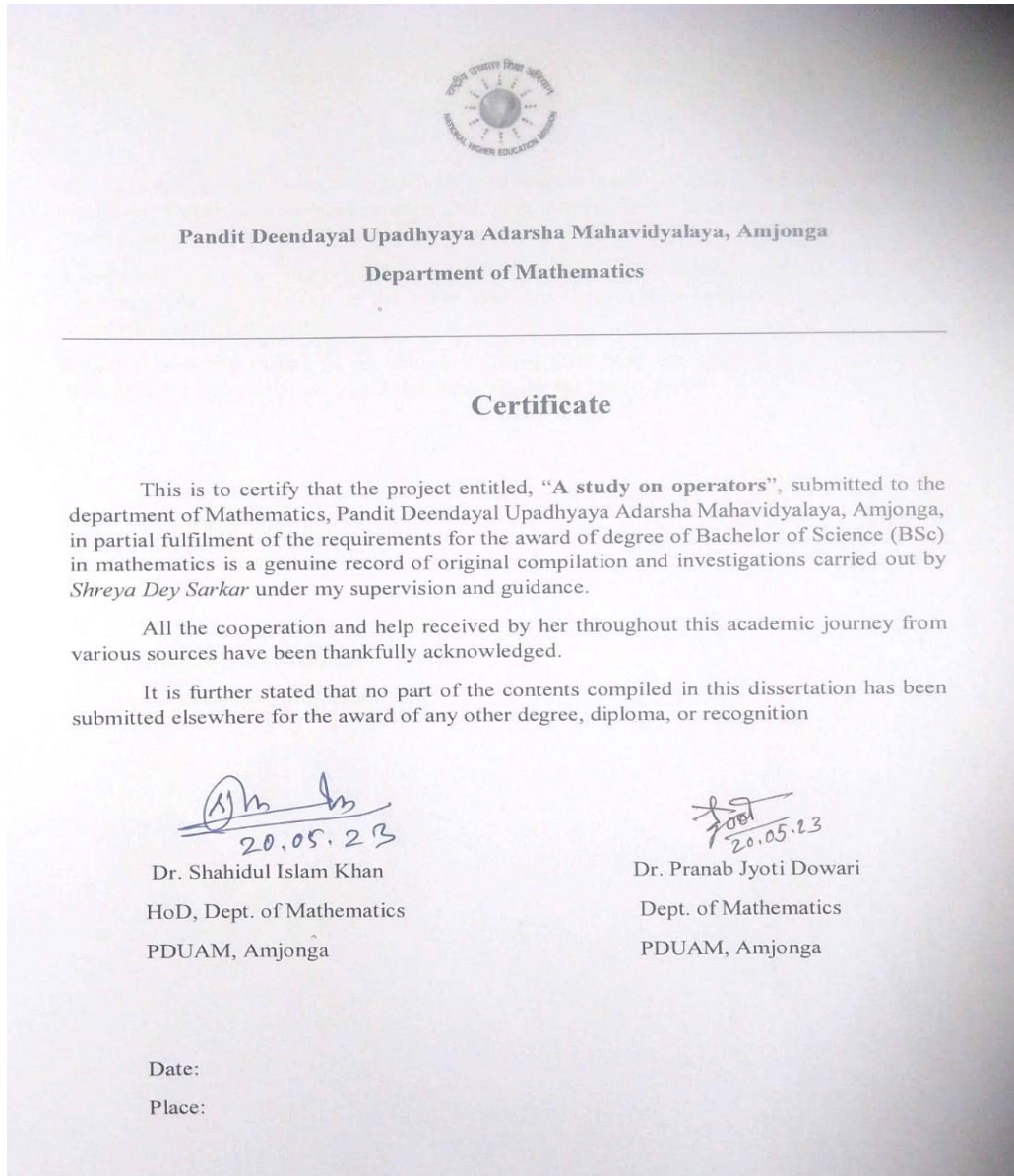
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
 <p style="text-align: center;">Project Report on A Study on Operators</p> <p style="text-align: center;">A project submitted in partial fulfilment of the requirements for the degree of Bachelor of Science</p> <p style="text-align: center;">Shreya Dey Sarkar Registration No: 20037446 Roll No: US-201-183-0047 Paper Code: MAT-HE-6086 Session – 2022-23</p> <p style="text-align: center;">  Name of the Supervisor: Dr. Pranab Jyoti Dowari </p> <p style="text-align: center;">Department of Mathematics Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga-783124, Goalpara, Assam</p>	
Submitted by Shreya Dey Sarkar	


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 Adarsha Mahavidyalaya, Amjonga

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

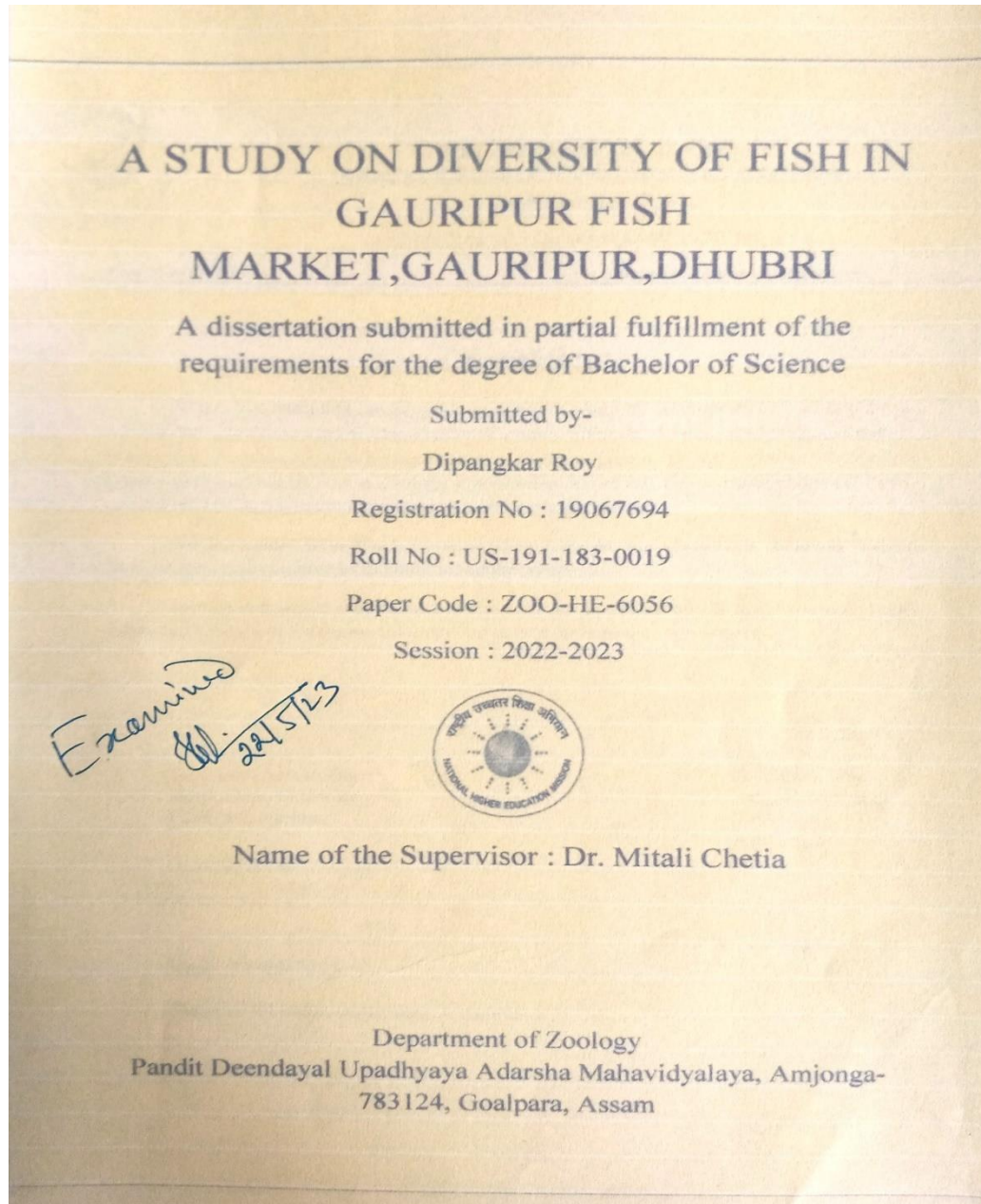
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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Title Page of Project



Submitted by Dipangkar Ray

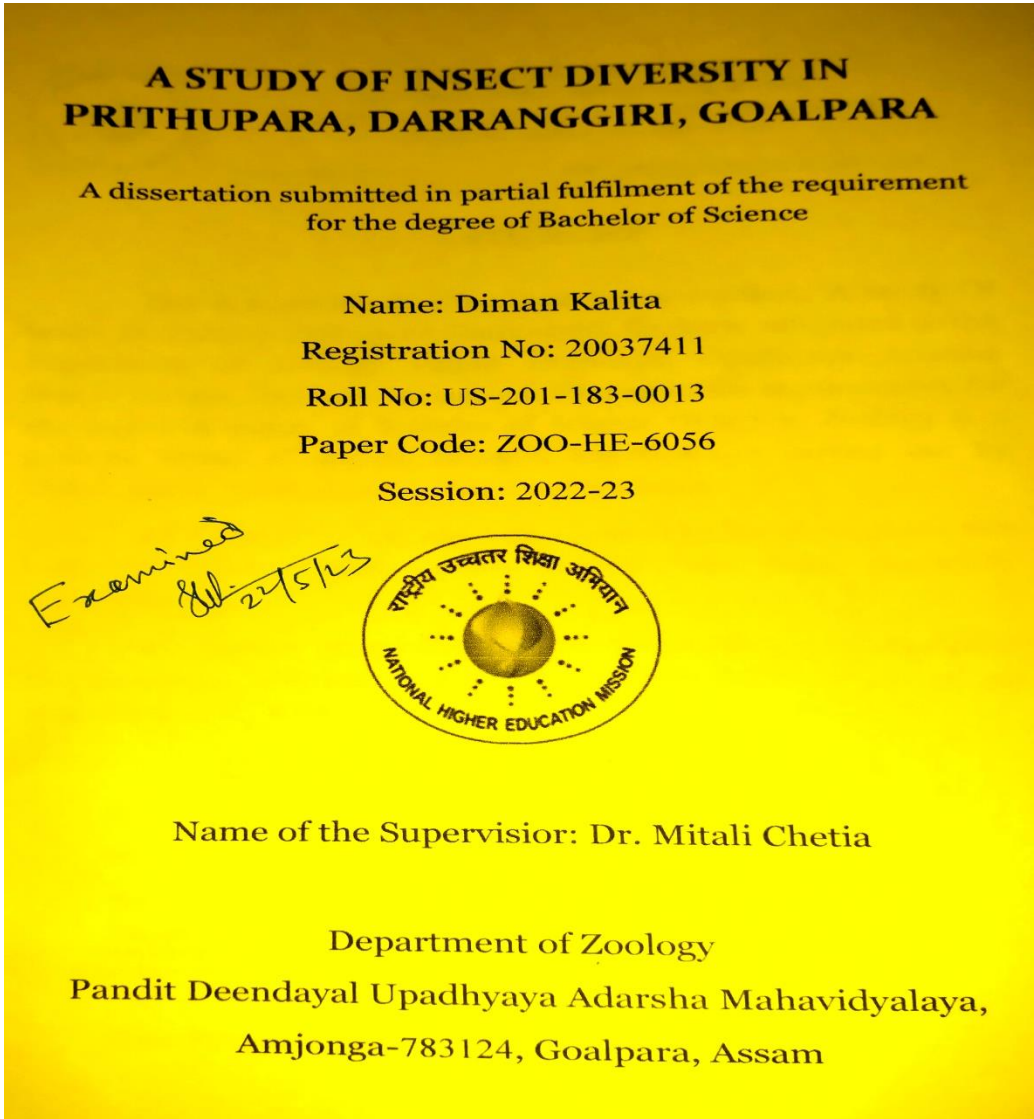

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Certificate	


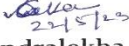



Submitted by Dipangkar Ray

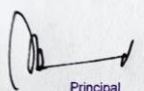
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Goalpara-783124

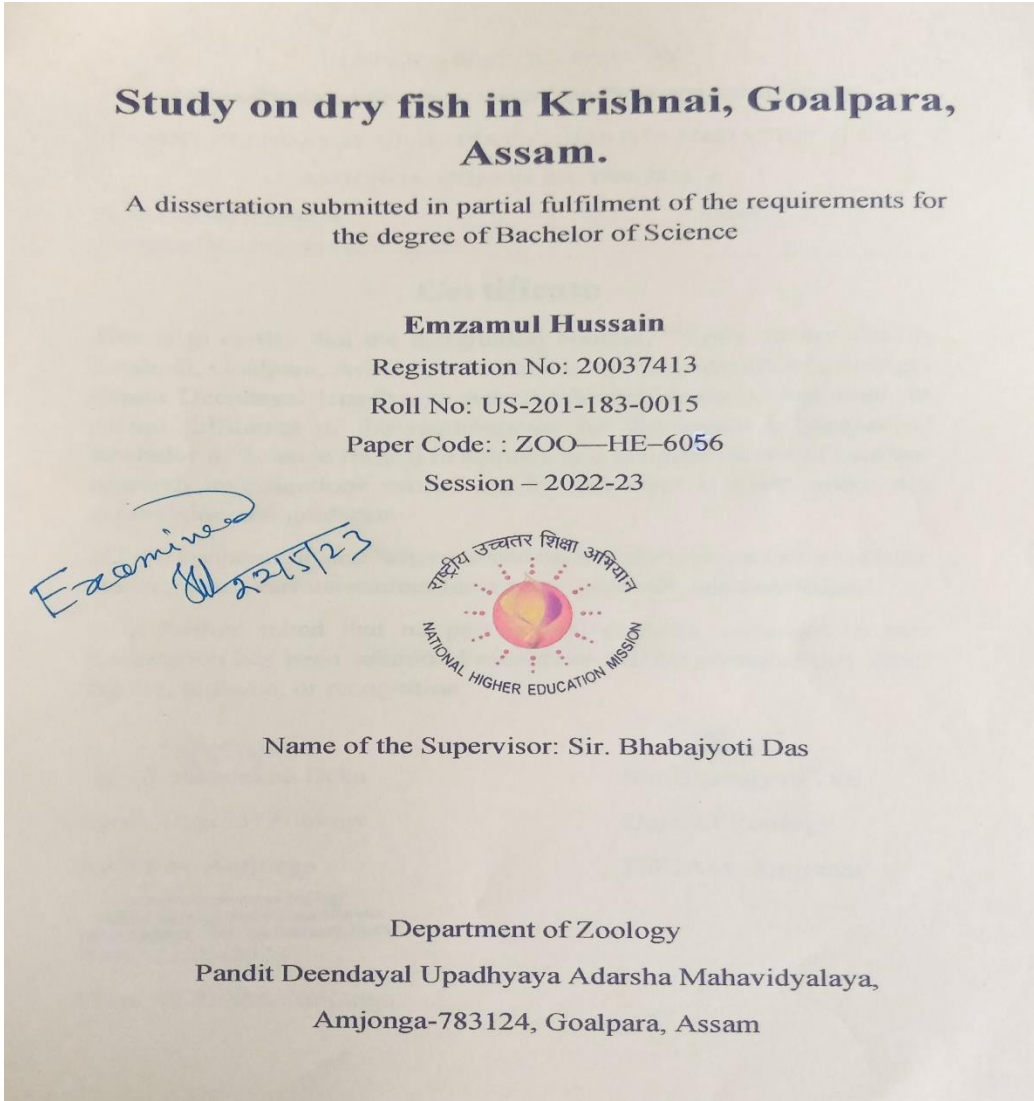
Pandit Deendayal
Principal
Pandit Deendayal Upadhyaya
Adarsha Mahavidyalaya, Amjonga

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
 <p>A STUDY OF INSECT DIVERSITY IN PRITHUPARA, DARRANGGIRI, GOALPARA</p> <p>A dissertation submitted in partial fulfilment of the requirement for the degree of Bachelor of Science</p> <p>Name: Diman Kalita Registration No: 20037411 Roll No: US-201-183-0013 Paper Code: ZOO-HE-6056 Session: 2022-23</p> <p><i>Examined & D. 27/5/23</i></p>  <p>Name of the Supervisor: Dr. Mitali Chetia</p> <p>Department of Zoology Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga-783124, Goalpara, Assam</p>	
Submitted by Diman Kalita	

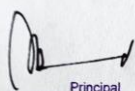
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Certificate	
 <p style="text-align: center;"> DEPARTMENT OF ZOOLOGY পণ্ডিত দীনদয়াল উপাধ্যায় আদর্শ মহাবিদ্যালয়, আমজোলা PANDIT DEENDAYAL UPADHYAYA ADARSHA MAHAVIDYALAYA AMJONGA, GOALPARA, PIN-783124 Phone: +919435849434 email: zoologypduamamjonga@gmail.com </p> <p style="text-align: center;">Certificate</p> <p>This is to certify that the dissertation entitled, "A Study Of Insect Diversity in Prithupara, Darranggiri, Goalpara submitted to the Department of Zoology, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of Bachelor of Science (B.Sc.) in Zoology is a genuine record of original research investigations carried out by Diman Kalita under my supervision and guidance.</p> <p>All the cooperation and help received by her throughout this academic journey from various sources have been thankfully acknowledged.</p> <p>It is further stated that no part of the contents compiled in this dissertation has been submitted elsewhere for the award of any other degree, diploma, or recognition.</p> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  Dr. Chandralekha Deka Head, Dept. of Zoology PDUAM, Amjonga Head Department of Zoology Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, Goalpara, Assam Date: 22nd May, 2023 Place: PDUAM, Amjonga </div> <div style="text-align: center;">  Dr. Mitali Chetia Dept. of Zoology PDUAM, Amjonga </div> </div>	
Submitted by Diman Kalita	


Coordinator
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Adarsha Mahavidyalaya, Amjonga

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
 <p style="text-align: center;">Study on dry fish in Krishnai, Goalpara, Assam.</p> <p style="text-align: center;">A dissertation submitted in partial fulfilment of the requirements for the degree of Bachelor of Science</p> <p style="text-align: center;">Emzamal Hussain</p> <p style="text-align: center;">Registration No: 20037413 Roll No: US-201-183-0015 Paper Code: : ZOO—HE—6056 Session – 2022-23</p> <p style="text-align: center;">Name of the Supervisor: Sir. Bhabajyoti Das</p> <p style="text-align: center;">Department of Zoology Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga-783124, Goalpara, Assam</p>	
Submitted by Emzamal Hussain	


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 Pandit Deendayal Upadhyaya
 Adarsha Mahavidyalaya, Amjonga

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Certificate

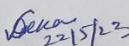
DEPARTMENT OF ZOOLOGY
পণ্ডিত দীনদয়াল উপাধ্যায় আদর্শ মহাবিদ্যালয়, আমজোঙ্গা
PANDIT DEENDAYAL UPADHYAYA ADARSHA MAHAVIDYALAYA
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
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All the cooperation and help received by him throughout this academic journey from various sources have been thankfully acknowledged.


It is further stated that no part of the contents compiled in this dissertation has been submitted elsewhere for the award of any other degree, diploma, or recognition.

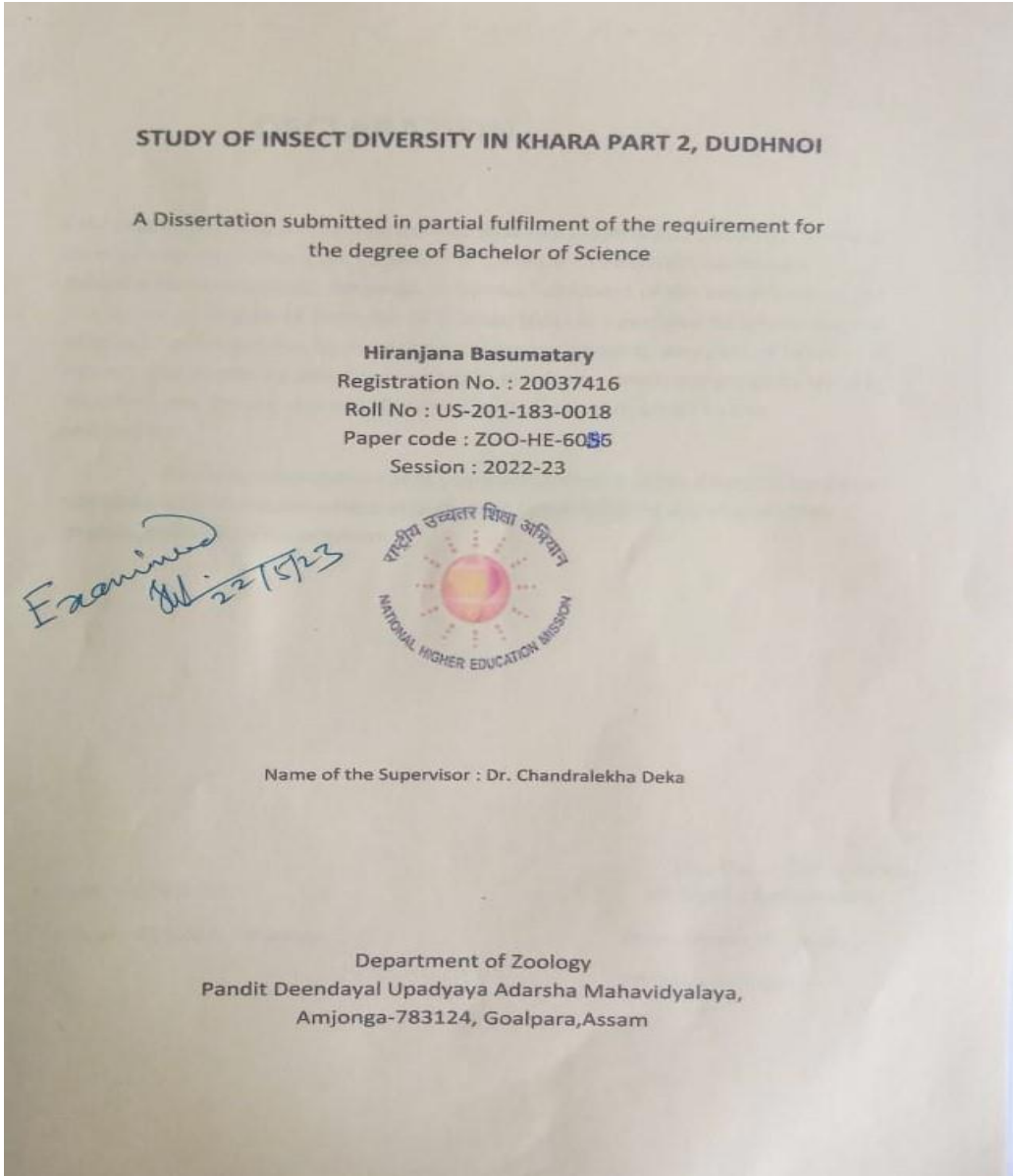

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Mahavidyalaya, Amjonga, Goalpara, Assam
Date: 22/05/2023
Place: PDUAM, Amjonga


Sir. Bhabajyoti Das
Dept. of Zoology
PDUAM, Amjonga

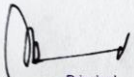
Submitted by Emzumul Hussain


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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
	
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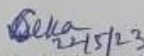
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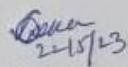
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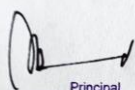
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Date : 22-05-2023

Place : PDUAM, Amjonga

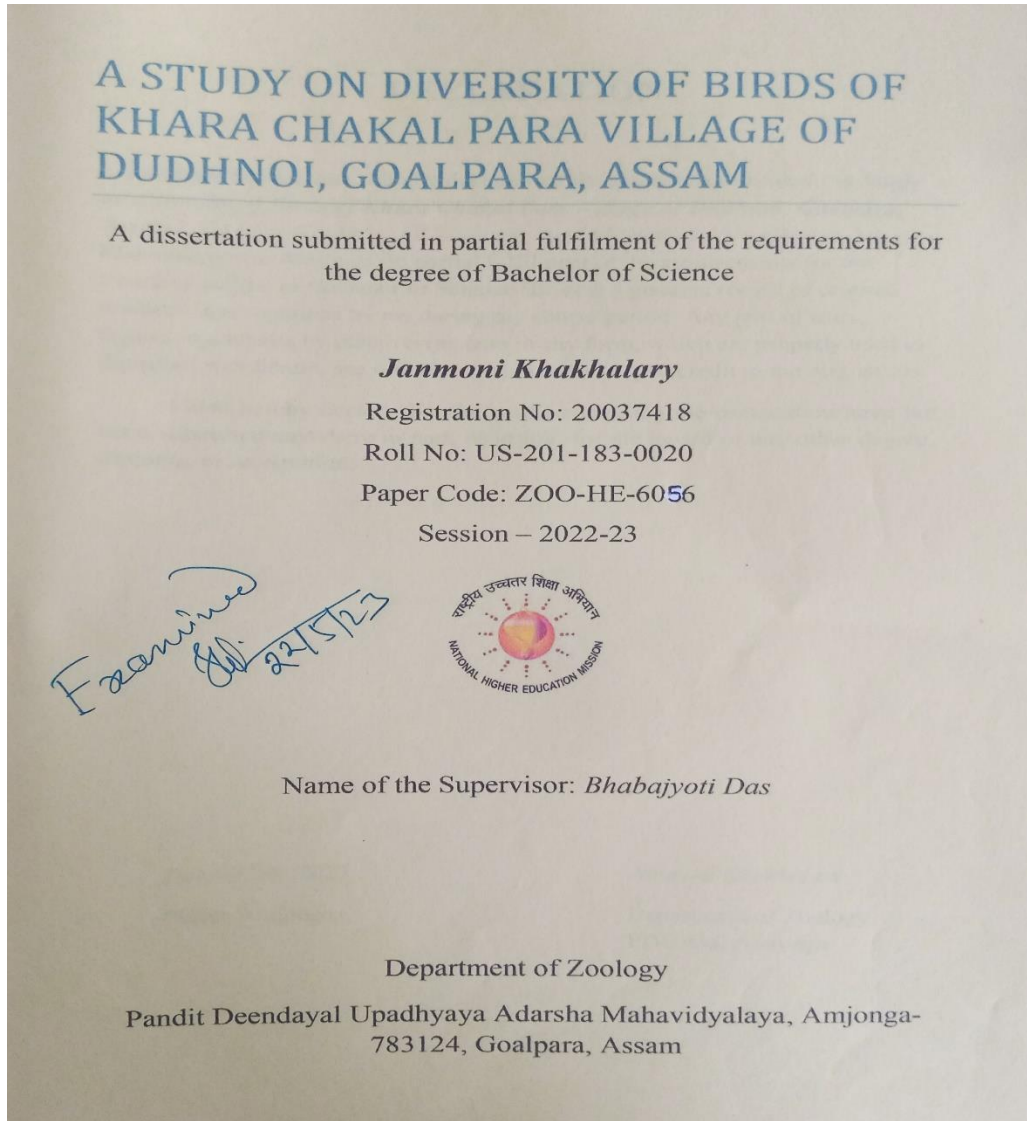
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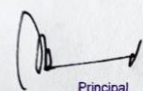
Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

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Adarsha Mahavidyalaya, Amjonga

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Certificate

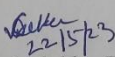
Departmental Letter Head

Certificate

This is to certify that the dissertation entitled, "*A Study on Diversity of Birds of Khara Chakal Para Village of Dudhnoi, Goalpara, Assam*", submitted to the department of Zoology, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of Bachelor of Science (BSc) in *Zoology* is a genuine record of original research investigations carried out by *Janmoni Khakhlary* under my supervision and guidance.

All the cooperation and help received by him/her throughout this academic journey from various sources have been thankfully acknowledged.

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Dr. Chandralekha Deka


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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
<p>A STUDY ON DIVERSITY OF MAMMALIAN SPECIES IN DUDHNAI, GOALPARA, ASSAM</p> <p>A dissertation submitted in partial fulfilment of the requirements for the degree of Bachelor of Science</p> <p>MONISA BASUMATARY Registration No:20037430 Roll No:US-201-183-0033 Paper Code: ZOO-HE-6056 Session – 2022-23</p> <p><i>Examined 22/5/23</i></p>  <p>Name of the Supervisor: Mr. Bhabajyoti Das</p> <p>Department of Zoology Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga-783124, Goalpara, Assam</p>	
Submitted by Monisha Basumatary	

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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

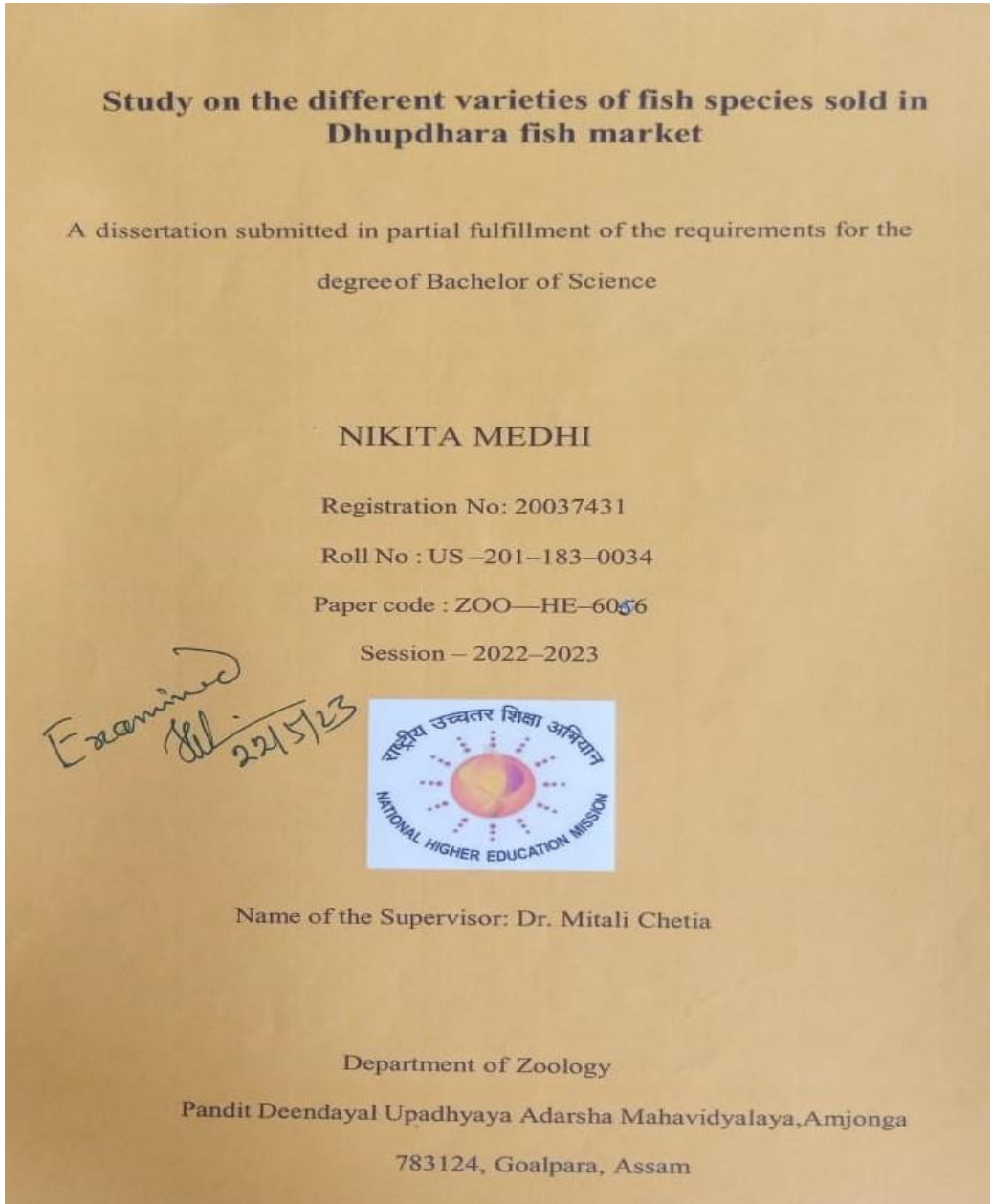
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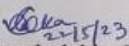
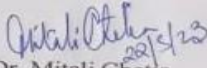
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Submitted by Nikita Medhi	

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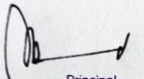


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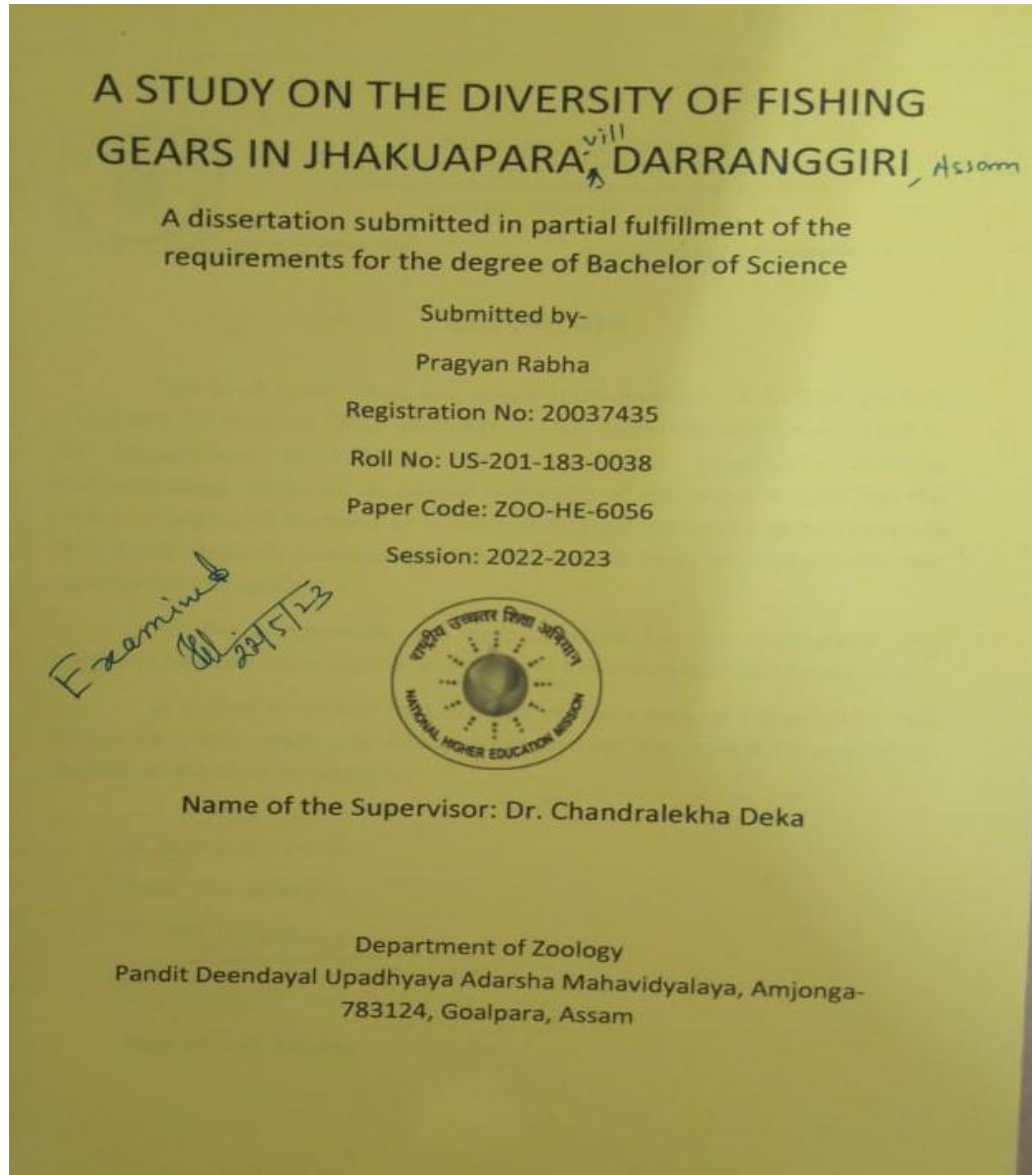
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<div style="text-align: center;"> <p>Department Letter Head</p> <hr/> <p>Certificate</p> </div> <p>This is to certify that the dissertation entitled,“ Study on different varieties of fish species sold in Dhupdhara fish market ” , submitted to the department of Zoology,Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of Bachelor of Science (B.Sc) in zoology is a genuine record of original research investigations carried out by Nikita Medhi under my supervision and guidance.</p> <p>All the cooperation and help received by him throughout this academic journey from various sources have been thankfully acknowledged.</p> <p>It is further stated that no part of the contents compiled in this dissertation has been submitted elsewhere for the award of any other degree, diploma, or recognition</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;">  <p>Dr. Chandralekha Deka</p> <p>HoD, Dept.of Zoology</p> <p>PDUAM,Amjonga</p> <p>Head Department of Zoology Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, Goalpara, Assam Date: 22/05/23</p> <p>Place: Amjonga, Goalpara</p> </div> <div style="text-align: center;">  <p>Dr. Mitali Chetia</p> <p>Dept.of Zoology</p> <p>PDUAM, Amjonga</p> </div> </div>	
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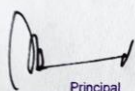
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Title Page of Project



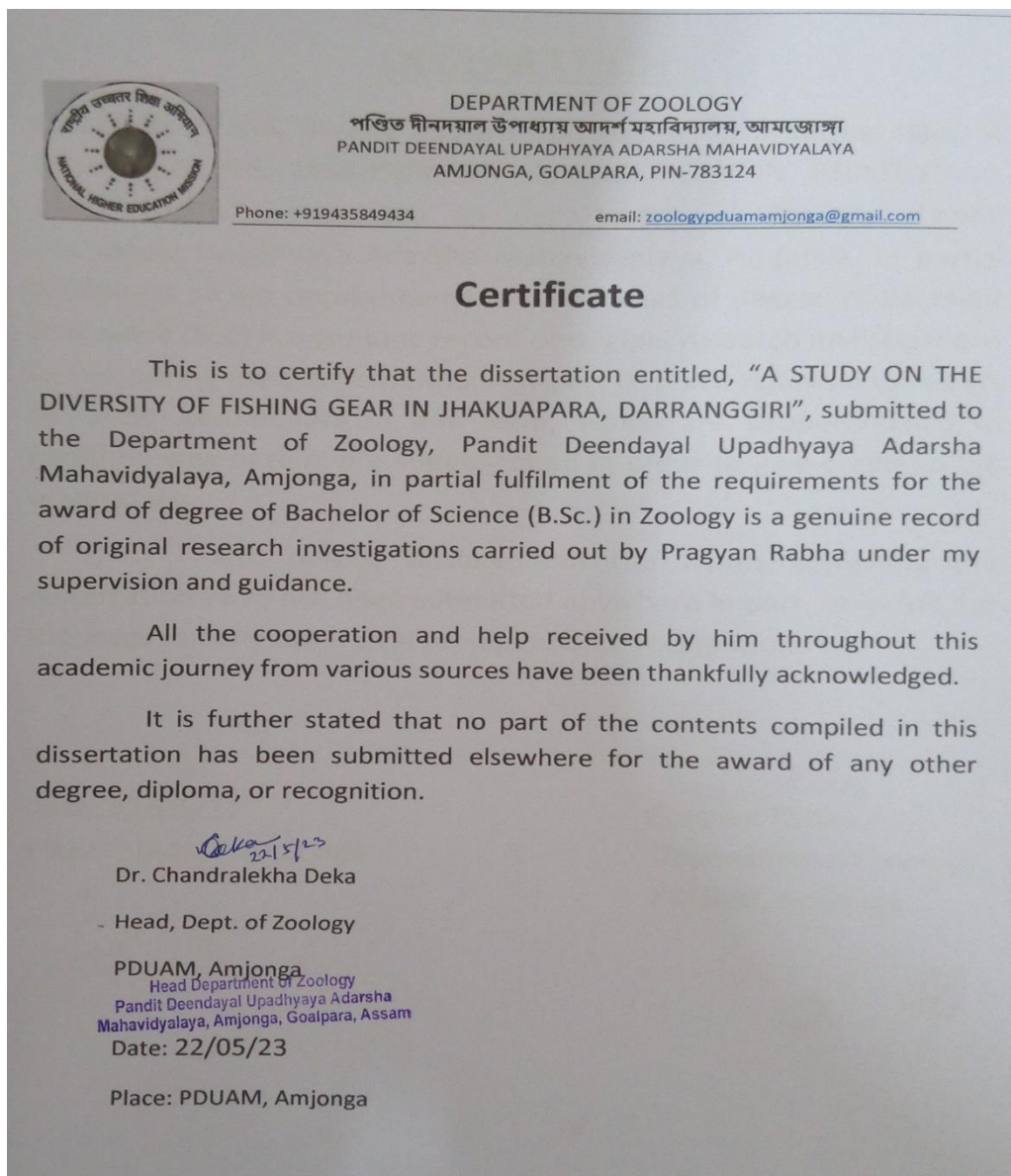
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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

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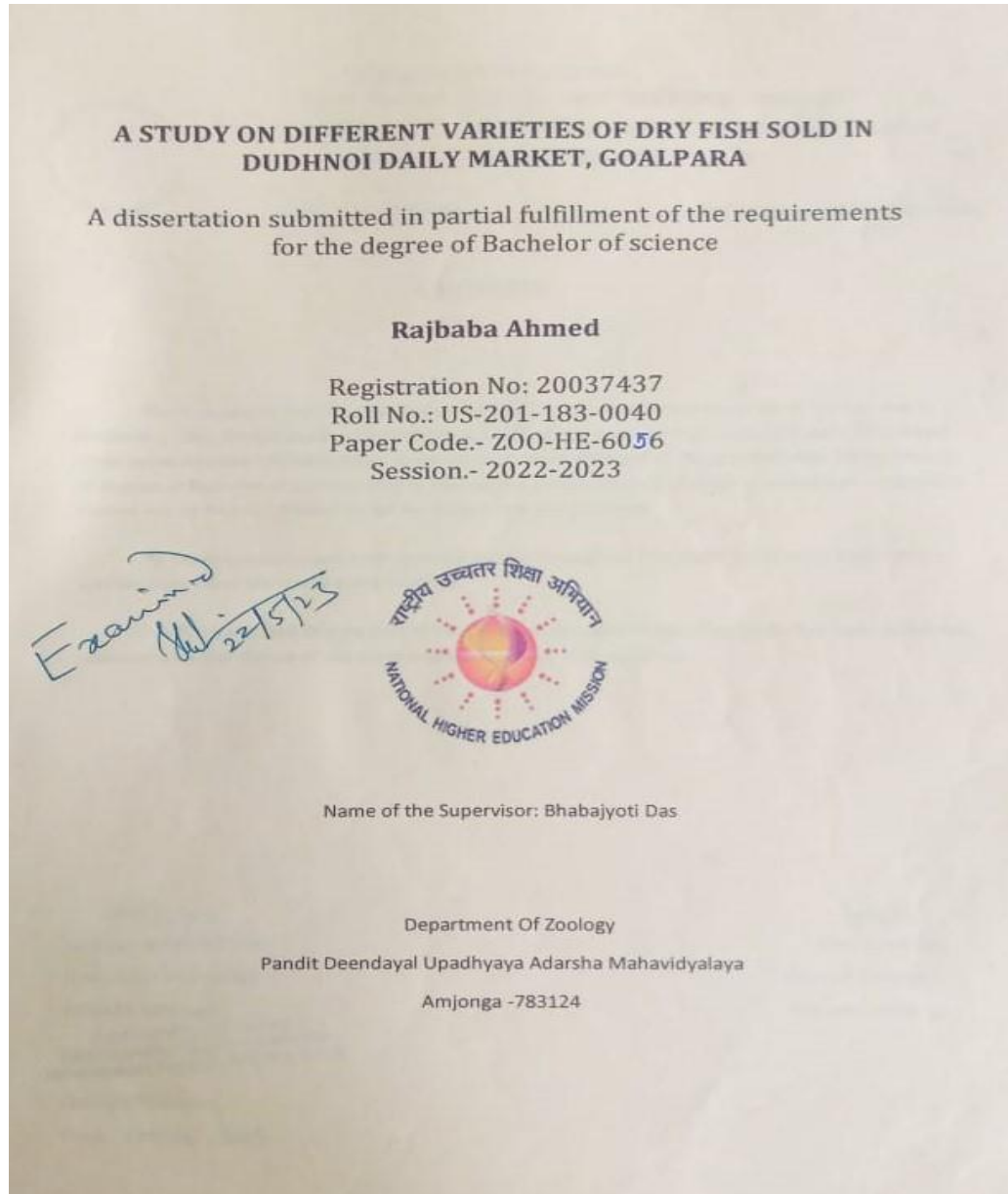
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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship

Title Page of Project



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Metric No	Heading
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All the cooperation and help received by him throughout this academic journey from various sources have been thankfully acknowledged.

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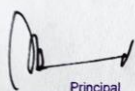
Dr. Chandralekha Deka
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Head Department of Zoology
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Mahavidyalaya, Amjonga, Goalpara, Assam
Date:22/05/2023
Place : Amjonga , Goalpara


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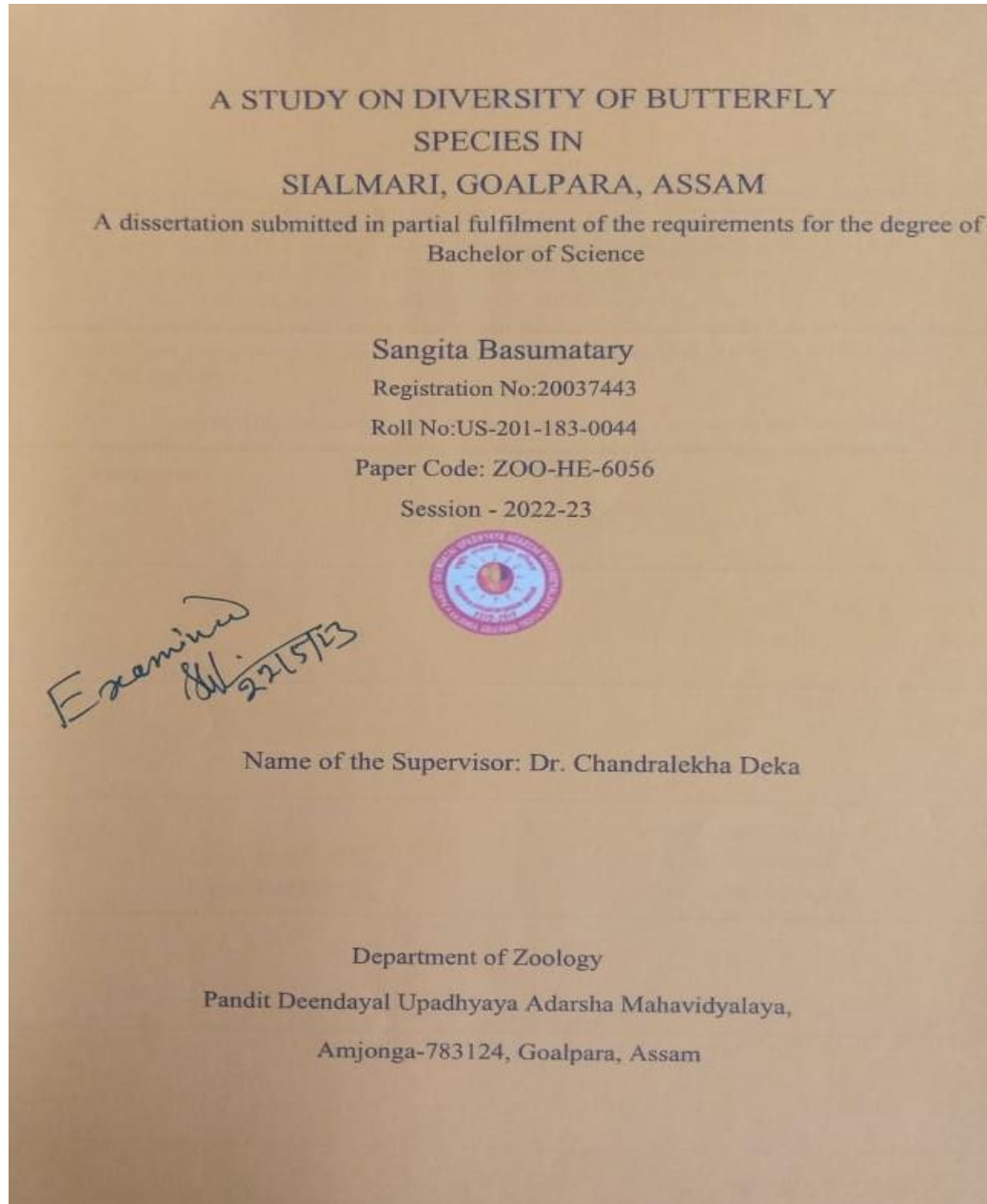
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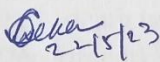
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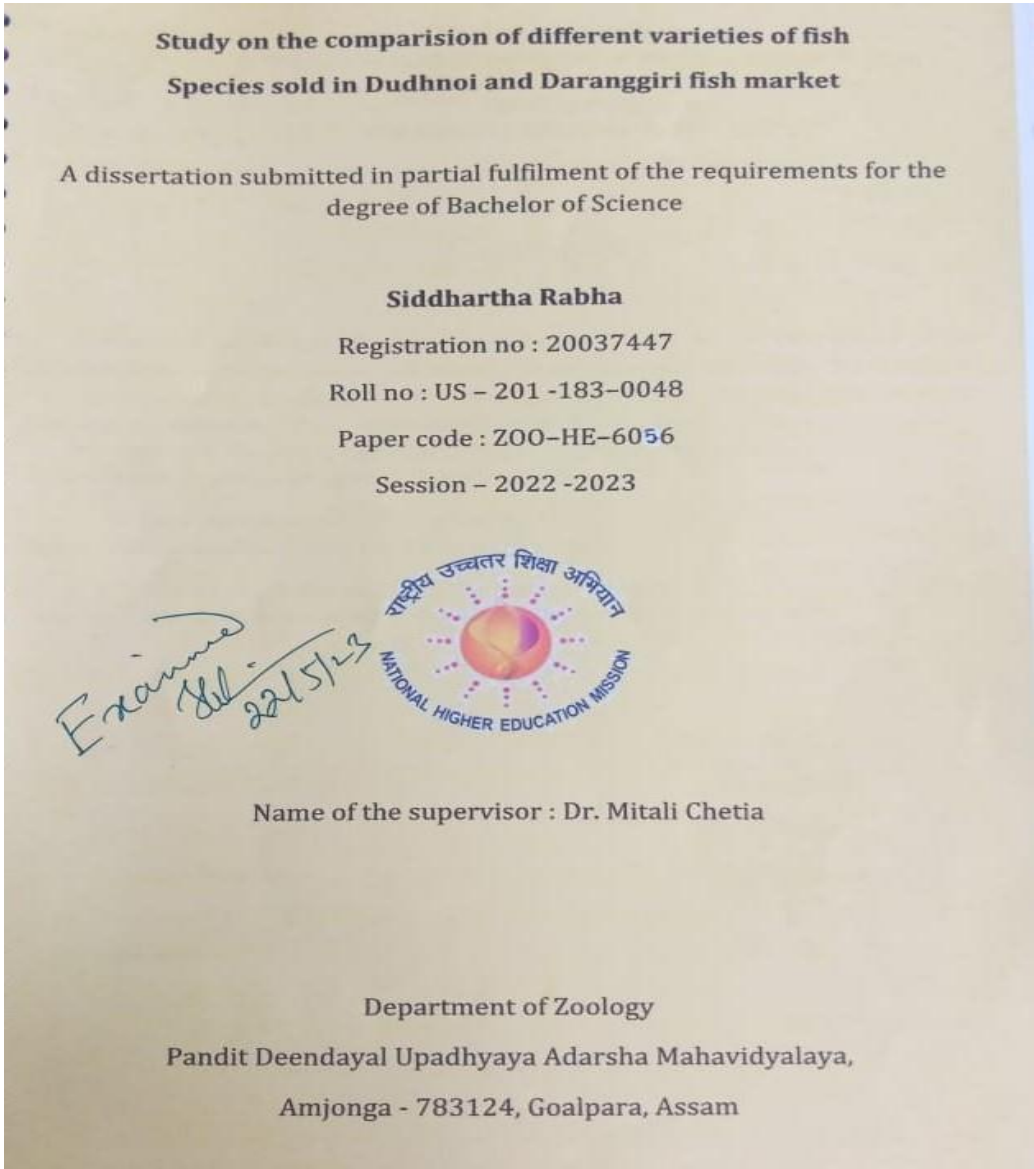

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Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Certificate	
<p>CERTIFICATE</p> <p>This is to certify that the dissertation entitled, " A STUDY ON DIVERSITY OF BUTTERFLY SPECIES IN SIALMARI, GOALPARA, ASSAM ", submitted to the department of Zoology, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga, in partial fulfilment of the requirements for the award of degree of Bachelor of Science (BSc) in Zoology is a genuine record of original research investigations carried out by Sangita Basumatary under my supervision and guidance.</p> <p>All the cooperation and help received by her throughout this academic journey from various sources have been thankfully acknowledged.</p> <p>It is further stated that no part of the contents compiled in this dissertation has been submitted elsewhere for the award of any other degree, diploma, or recognition.</p> <p> Dr. Chandralekha Deka HOD, Dept. of Zoology PDUAM, Amjonga</p> <p>Date:22/05/2023 Place:Amjonga</p>	
Submitted by Sangita Basumatary	

Metric No	Heading
1.3.2	Percentage of students undertaking project work/ field work/ internship
Title Page of Project	
 <p style="text-align: center;">Study on the comparision of different varieties of fish Species sold in Dudhnoi and Daranggiri fish market</p> <p style="text-align: center;">A dissertation submitted in partial fulfilment of the requirements for the degree of Bachelor of Science</p> <p style="text-align: center;">Siddhartha Rabha Registration no : 20037447 Roll no : US - 201 -183-0048 Paper code : ZOO-HE-6056 Session - 2022 -2023</p> <p style="text-align: center;">  <i>Examinee</i> <i>Sd/- 2215123</i> </p> <p style="text-align: center;">Name of the supervisor : Dr. Mitali Chetia</p> <p style="text-align: center;">Department of Zoology Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga - 783124, Goalpara, Assam</p>	
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1.3.2	Percentage of students undertaking project work/ field work/ internship

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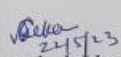
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Certificate


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All the cooperation and help received by him/her throughout this academic journey from various sources have been thankfully acknowledged.

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Head, Dept. of Zoology
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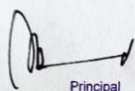
Dr. Mitali Chetia
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PDUAM, Amjonga

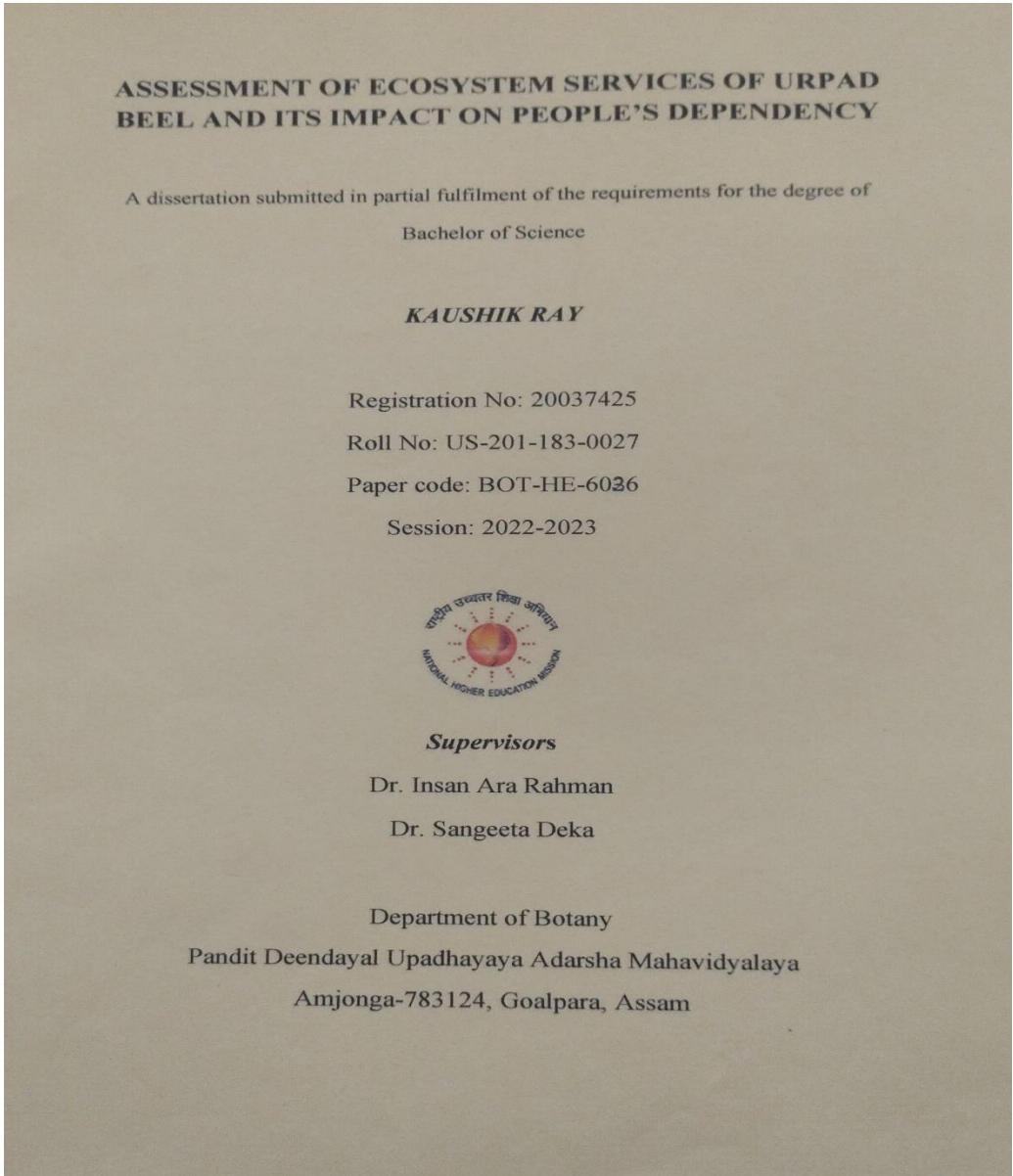

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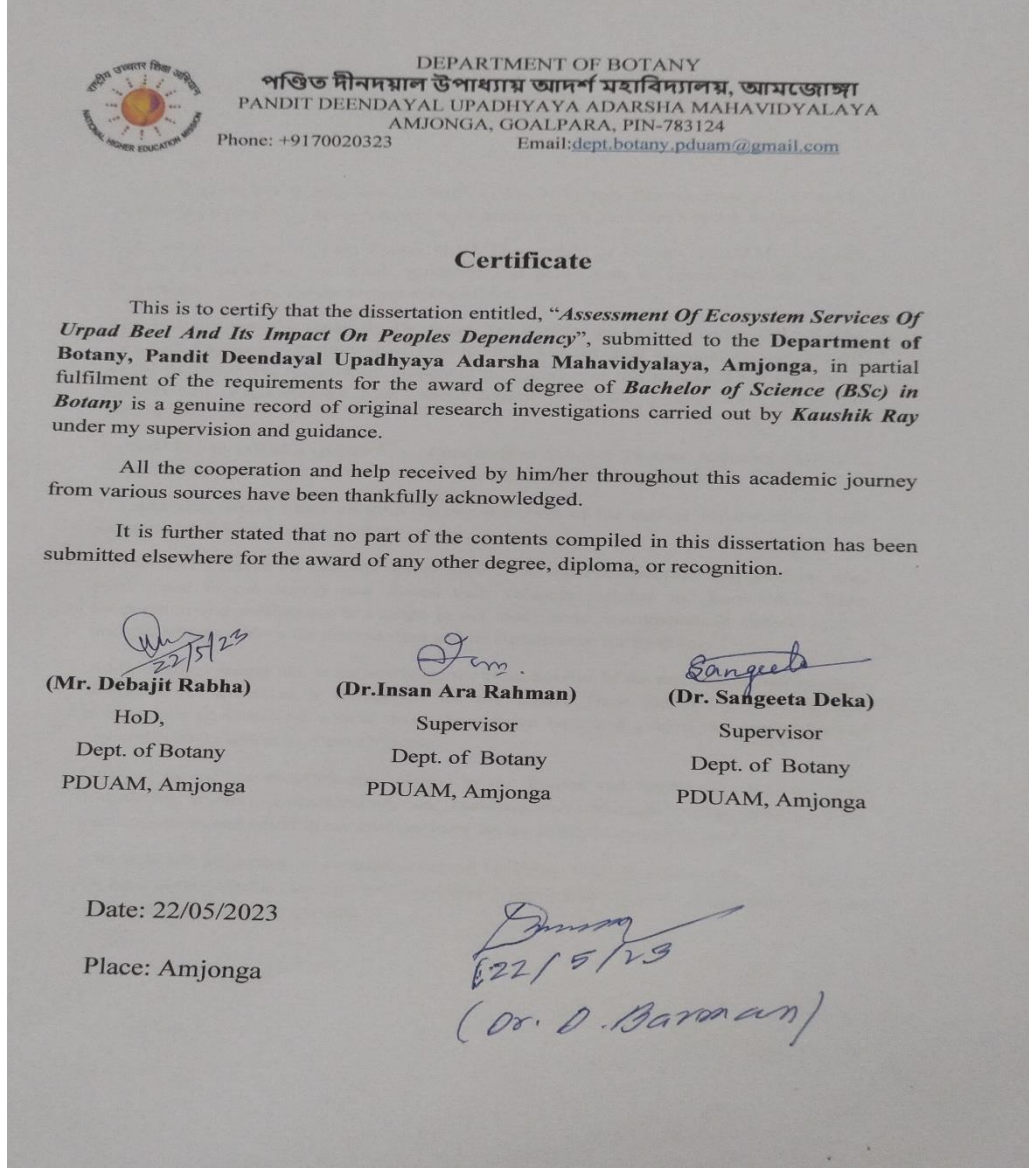

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Metric No	Heading
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Sample Project	
 <p>ASSESSMENT OF ECOSYSTEM SERVICES OF URPAD BEEL AND ITS IMPACT ON PEOPLE'S DEPENDENCY</p> <p>A dissertation submitted in partial fulfilment of the requirements for the degree of Bachelor of Science</p> <p>KAUSHIK RAY</p> <p>Registration No: 20037425 Roll No: US-201-183-0027 Paper code: BOT-HE-6036 Session: 2022-2023</p> <p></p> <p>Supervisors Dr. Insan Ara Rahman Dr. Sangeeta Deka</p> <p>Department of Botany Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya Amjonga-783124, Goalpara, Assam</p>	
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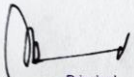

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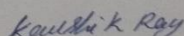
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<div style="text-align: center;"><u>Acknowledgements</u></div> <p>Firstly, I would like to offer special thanks to Mr. Navajyoti Sharma, Principal, PDUAM, Amjonga for giving me an opportunity to undertake my B.Sc. Course in this institution.</p> <p>I am grateful to Mr. Debajit Rabha, HOD, Department of Botany, PDUAM, Amjonga, Assam for providing me timely guidance and permission to access facilities in the Department to carry out the project successfully.</p> <p>I express my heartfelt thanks to Dr. Insan Ara Rahman and Dr. Sangeeta Deka Rabha, Assistant Professor, Department of Botany, PDUAM for their constant encouragement, timely guidance and mentorship throughout the duration of this project. Their continuous support and encouragement have indeed proved to be the guiding force in all my endeavours.</p> <p>I would like to extend a special note of gratitude to Sabnoor Yeasrin, Assistant Professor, Department of Botany, PDUAM for her invaluable support and guidance.</p> <p>I would also like to thank all other faculty members of the college for extending their support and guidance throughout my course.</p> <p>Furthermore I extend my heartfelt appreciation to the local communities and residents who participated in our survey and shared their valuable insights and knowledge. Your cooperation and willingness to engage in my study were instrumental in enhancing our understanding of the wetland ecosystem and its significance for livelihoods.</p> <p>Additionally, I would like to acknowledge the contributions of the researchers and scholars whose work served as a foundation for my study. Their pioneering research and publications provided me with a strong knowledge base and guided my exploration of wetland ecology and ecosystem services.</p> <p>Lastly, I extend our heartfelt appreciation to my friends and family members for their unwavering support, understanding, and encouragement throughout this project. Your encouragement and belief in my abilities have been a constant source of motivation.</p> <p>Although it is impossible to mention everyone by name, please accept my sincere thanks if you have contributed in any way to this project. Your support has been instrumental in our journey, and we are truly grateful.</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div data-bbox="351 1478 526 1545"> <p>Place: Amjonga Date: 22/05/2023</p> </div> <div data-bbox="1069 1433 1252 1500" style="text-align: right;">  Kaushik Ray </div> </div> <div style="text-align: center; margin-top: 10px;">ii</div>	
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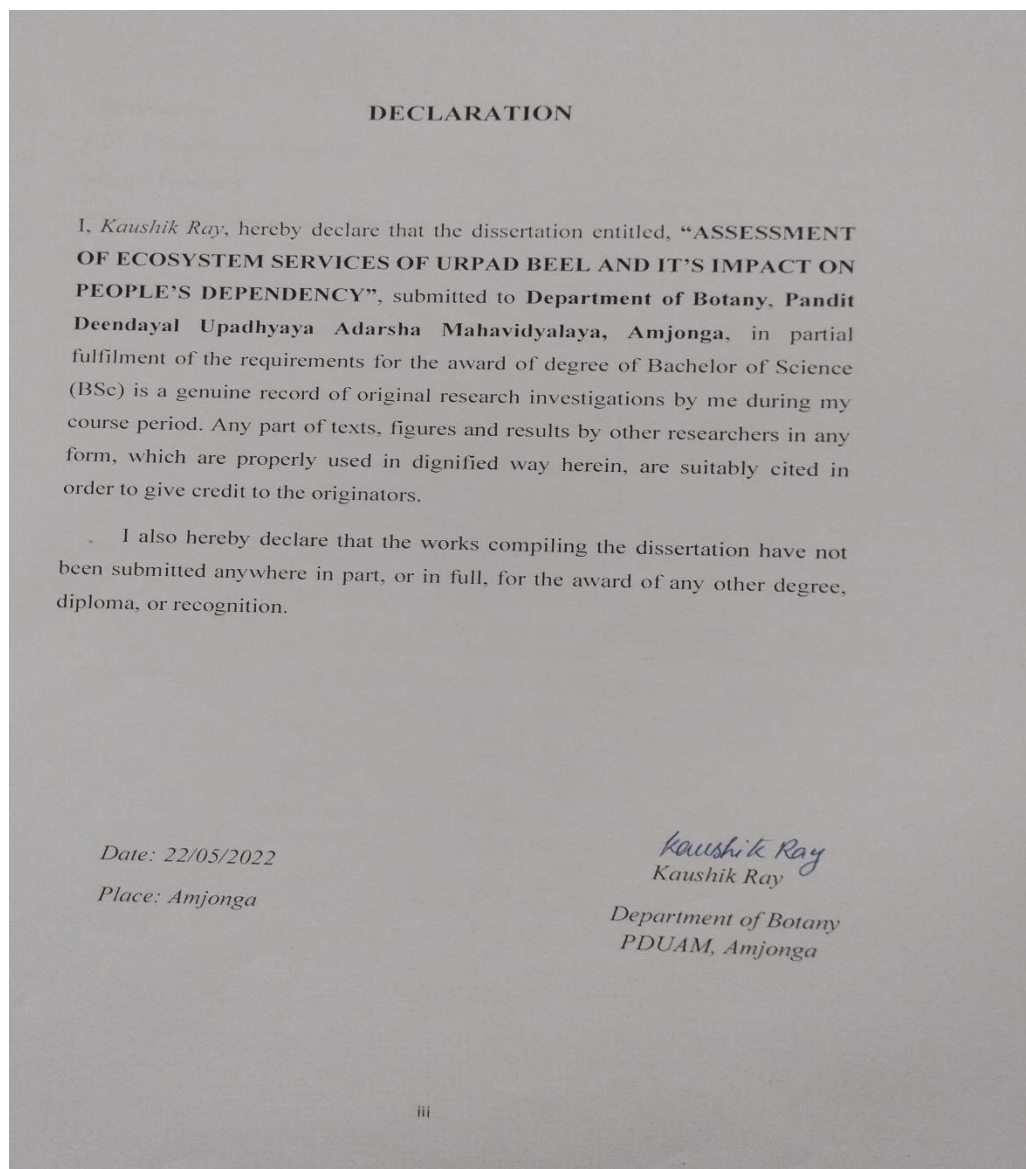


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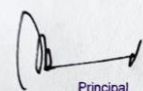
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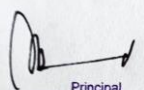
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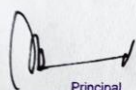
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<p data-bbox="379 613 459 636">Abstract</p> <p data-bbox="371 658 1150 853">This study investigates the ecosystem services provided by Urpad Beel, a wetland of significant ecological importance. The study aims to identify, assess, and analyze the diverse ecosystem services offered by Urpad Beel, as well as their contributions to the well-being and livelihoods of local communities. Through a comprehensive literature review, field surveys, and stakeholder consultations, this research examines the ecological, economic, and socio-cultural dimensions of the wetland's ecosystem services.</p> <p data-bbox="363 882 1150 1115">The research employs a multi-disciplinary approach, integrating ecological assessments, economic valuation techniques, and qualitative analyses to understand the significance and benefits derived from Urpad Beel. The ecosystem services are classified, quantified, and ranked based on their perceived importance and utilization by local communities. Additionally, the study investigates the temporal dynamics of the wetland's ecosystem services, exploring how they have changed over time and the factors contributing to these changes.</p> <p data-bbox="355 1144 1150 1317">Furthermore, this study explores the implications of ecosystem service degradation or loss on the well-being of local communities and highlights the interdependencies between natural and human factors in shaping the wetland ecosystem. The findings of this research will provide valuable insights for policymakers, conservationists, and stakeholders involved in the sustainable management and conservation of Urpad Beel.</p> <p data-bbox="347 1346 1150 1554">Overall, this thesis contributes to the understanding of the ecosystem services provided by Urpad Beel and emphasizes their critical role in supporting the socio-economic well-being and cultural heritage of the local communities. The results will guide the formulation of effective policies and management strategies aimed at the conservation and sustainable use of Urpad Beel's ecosystem services for the benefit of both present and future generations.</p>	
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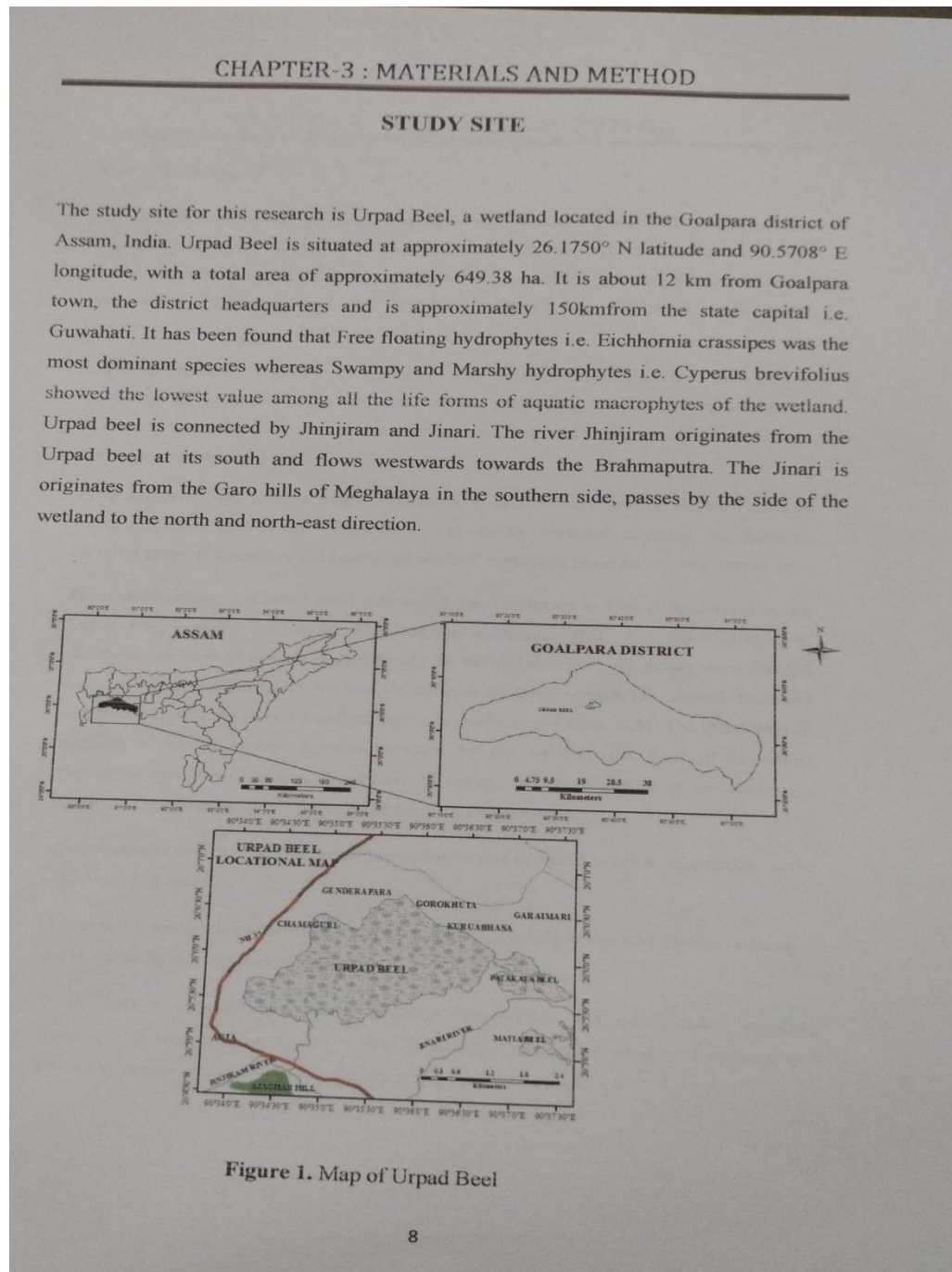

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<p>CHAPTER-1: INTRODUCTION</p> <hr/> <p>Wetlands are some of the most biologically diverse and productive ecosystems on the planet, and they play a crucial role in the health of our environment and the well-being of our society. According to the Ramsar Convention, wetlands are areas where water is the primary factor controlling the environment and the associated plant and animal life. This definition highlights the unique characteristics of wetlands, where the land is saturated with water, either permanently or seasonally, creating a variety of habitats for a wide range of species. The United States Environmental Protection Agency emphasized the importance of wetlands, as they protect and improve water quality, provide habitats for fish and wildlife, store floodwaters, and maintain surface water flow during dry periods. The International Union for Conservation of Nature adds that wetlands can be natural or artificial, permanent or temporary, and can include marine areas. Meanwhile, the Australian Government Department of Agriculture, Water and the Environment notes that water is present at or near the surface of the ground in wetlands for all or part of the year. Wetlands are some of the most biologically diverse and productive ecosystems on the planet, covering approximately 6% of the world's surface area (Davidson, 2014).</p> <p>In India, wetlands cover an estimated 4.6% of the country's total land area, with a wide range of types and characteristics (Bhattacharjee et al., 2020). Wetlands play a critical role in the livelihoods and culture of local communities, as well as in the conservation of endangered species such as the one-horned rhinoceros in Assam a north-eastern state of India (Assam State Wetland Authority, 2019). According to a report by the Assam State Wetland Authority, there are 708 wetlands in the state, covering an area of 3,585 square kilometres (Assam State Wetland Authority, 2019). Wetlands are vital ecosystems that provide a wide range of ecosystem services, including water purification, flood control, carbon sequestration, and habitat provision for biodiversity. These services not only support the functioning of natural systems but also underpin the livelihoods and well-being of millions of people worldwide. Wetlands provide a variety of ecosystem services that are essential for human well-being and the functioning of natural systems. These services can be broadly categorized into four types: provisioning, regulating, supporting, and cultural services. Provisioning services refer to the goods that wetlands provide, such as food, water, and other resources. Wetlands are important sources of fish, shellfish, and other aquatic organisms, and they also provide timber, fuel wood, and medicinal plants. In addition, wetlands play a critical role in water supply, storing and releasing water during times of drought or flooding. Regulating</p> <p style="text-align: center;">1</p>	
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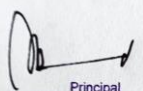

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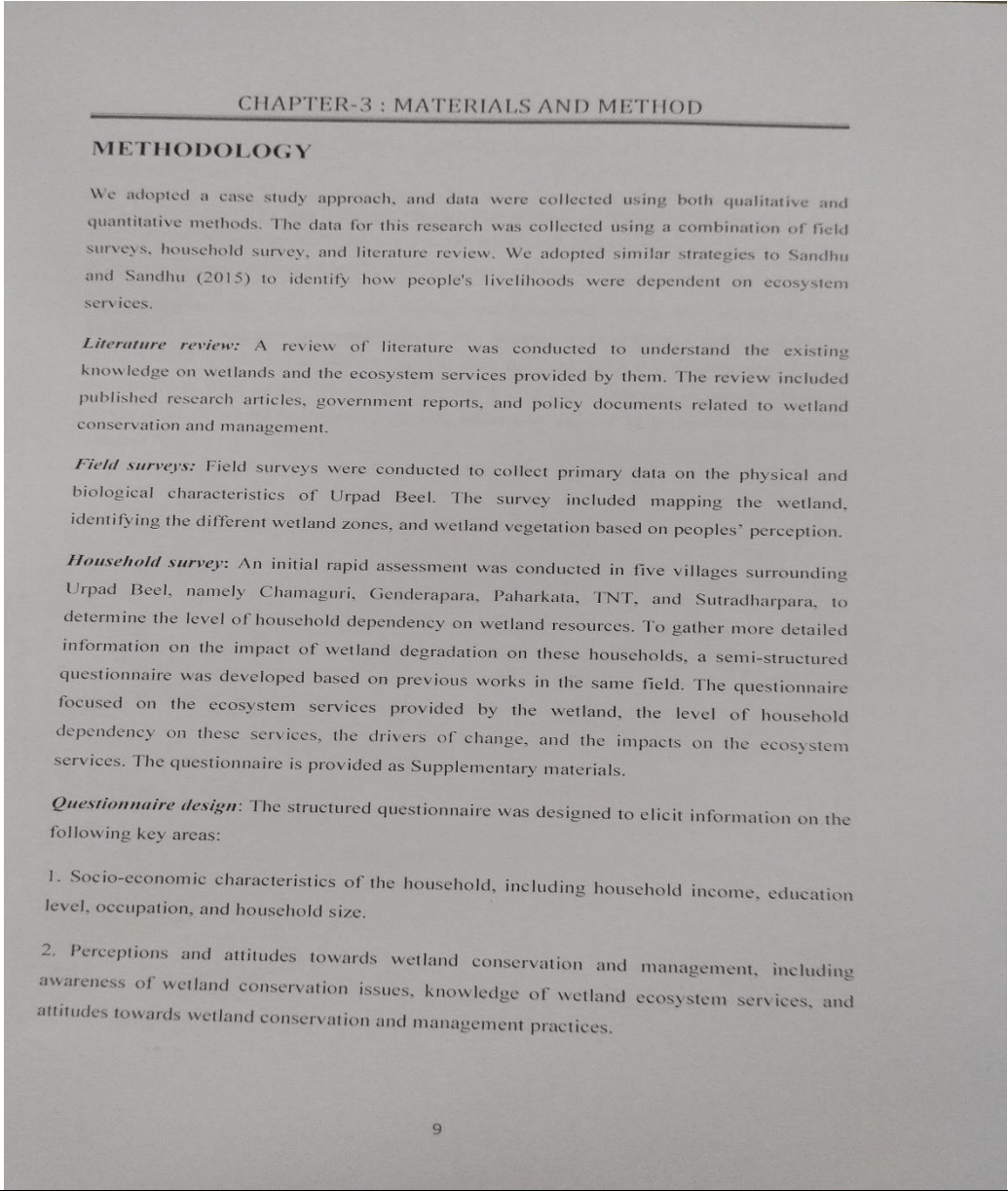
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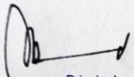
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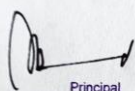
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 <p style="text-align: center;">CHAPTER-3 : MATERIALS AND METHOD</p> <p>METHODOLOGY</p> <p>We adopted a case study approach, and data were collected using both qualitative and quantitative methods. The data for this research was collected using a combination of field surveys, household survey, and literature review. We adopted similar strategies to Sandhu and Sandhu (2015) to identify how people's livelihoods were dependent on ecosystem services.</p> <p><i>Literature review:</i> A review of literature was conducted to understand the existing knowledge on wetlands and the ecosystem services provided by them. The review included published research articles, government reports, and policy documents related to wetland conservation and management.</p> <p><i>Field surveys:</i> Field surveys were conducted to collect primary data on the physical and biological characteristics of Urapad Beel. The survey included mapping the wetland, identifying the different wetland zones, and wetland vegetation based on peoples' perception.</p> <p><i>Household survey:</i> An initial rapid assessment was conducted in five villages surrounding Urapad Beel, namely Chamaguri, Genderapara, Paharkata, TNT, and Sutradharpara, to determine the level of household dependency on wetland resources. To gather more detailed information on the impact of wetland degradation on these households, a semi-structured questionnaire was developed based on previous works in the same field. The questionnaire focused on the ecosystem services provided by the wetland, the level of household dependency on these services, the drivers of change, and the impacts on the ecosystem services. The questionnaire is provided as Supplementary materials.</p> <p><i>Questionnaire design:</i> The structured questionnaire was designed to elicit information on the following key areas:</p> <ol style="list-style-type: none"> 1. Socio-economic characteristics of the household, including household income, education level, occupation, and household size. 2. Perceptions and attitudes towards wetland conservation and management, including awareness of wetland conservation issues, knowledge of wetland ecosystem services, and attitudes towards wetland conservation and management practices. <p style="text-align: center;">9</p>	
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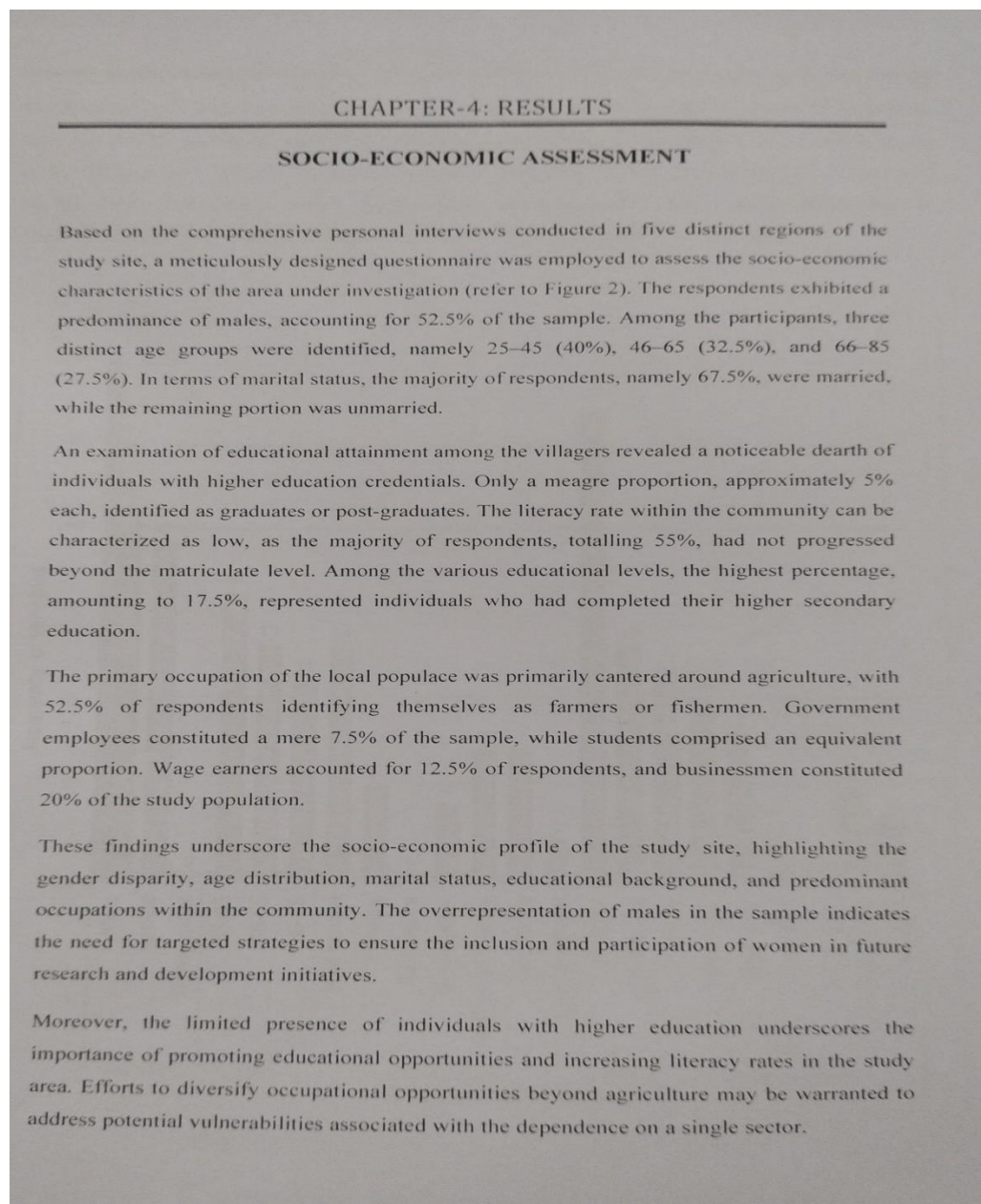

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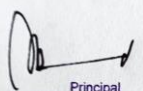

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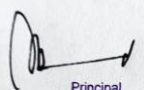
CHAPTER-4: RESULTS

Table 4. Drivers of change of ecosystem services

Drivers of change	No. Of reports	Percentage
Burning of forest ground	3	30
Chemical poisoning	4	40
Climate change	7	70
Deforestation	8	80
Erosion and landslide	6	60
Flood	5	50
Imbalance in water regulation	4	40
Invasive and alien species	9	90
Over exploitation	9	90
River cutting	4	40
Sewage and other pollution	5	50
Siltation	9	90
Use of advanced fishing equipment	6	60
Use of chemical fertilizers	6	60
Encroachment	4	40


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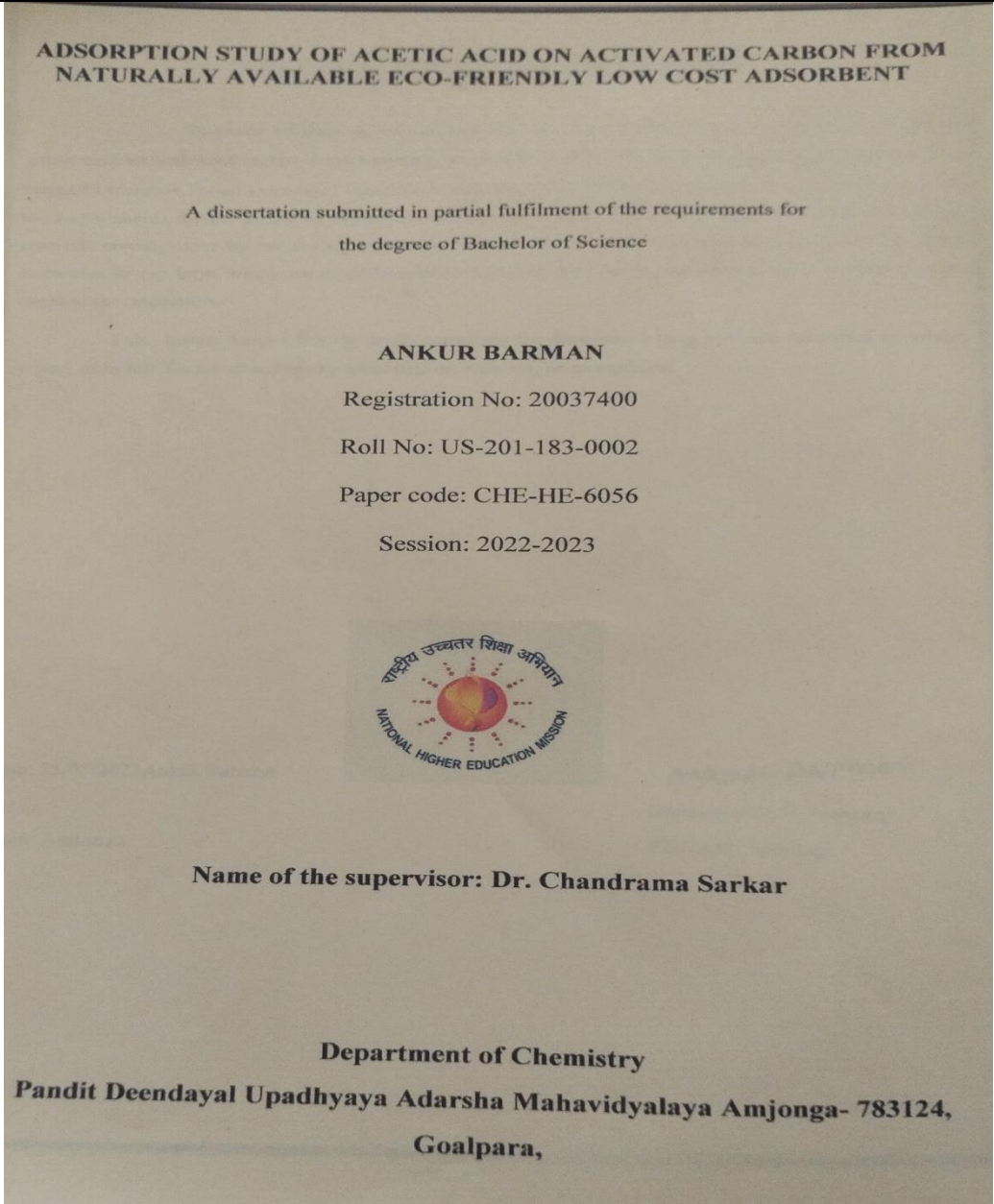

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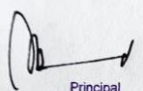
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<p>REFERENCES</p> <hr/> <p>Assam State Wetland Authority. (2019). Wetland Atlas of Assam. Retrieved from https://www.aswm.in/wetland-atlas-of-assam/</p> <p>Australian Government Department of Agriculture, Water and the Environment. (n.d.). Wetlands. Retrieved from https://www.environment.gov.au/water/wetlands</p> <p>Bhattacharjee, D., Das, M., Bhattacharjee, C., Bhardwaj, A., & Paul, A. K. (2020). Biodiversity conservation in India: status, challenges, and future directions. <i>Biodiversity and Conservation</i>, 29(6), 1953-1972. doi: 10.1007/s10531-020-01934-z</p> <p>Chan, K. M. A., Guerry, A. D., Balvanera, P., Klain, S., Satterfield, T., Basurto, X., ... & O'Connor, S. (2012). Where are cultural and social in ecosystem services? A framework for constructive engagement. <i>BioScience</i>, 62(8), 744-756. doi: 10.1525/bio.2012</p> <p>Cherry, J. A. (2011). Wetland ecosystem services and the Ramsar Convention: The need for strong scientific support. <i>Ecological Engineering</i>, 37(11), 1817-1823.</p> <p>Collaborative efforts for wetland conservation: A case study of the Mai Po Marshes, Hong Kong and Shenzhen. (2019). <i>Journal of Wetland Environmental Management</i>, 7(2), 56-67.</p> <p>Costanza, R., d'Arge, R., de Groot, R., Farber, S., Grasso, M., Hannon, B., ... & van den Belt, M. (1997). The value of the world's ecosystem services and natural capital. <i>Nature</i>, 387(6630), 253-260. doi: 10.1038/387253a0</p> <p>Daily, G. C., Söderqvist, T., Aniyar, S., Arrow, K., Dasgupta, P., Ehrlich, P. R., ... & Walker, B. H. (1997). The value of nature and the nature of value. <i>Science</i>, 289(5478), 395-396. doi: 10.1126/science.289.5478.395</p> <p>Davidson, N. C. (2014). How much wetland has the world lost? Long-term and recent trends in global wetland area. <i>Marine and Freshwater Research</i>, 65(10), 934-941. doi: 10.1071/MF14173</p> <p>Gaedener, T., & Finlayson, C. M. (2018). <i>Wetlands and people: Opportunities and challenges for sustainable livelihoods and equitable development</i>. Cambridge University Press.</p> <p>Ghermandi, A., van den Belt, M., & Pearce, D. (2019). The ecosystem services of wetlands: a systematic review of valuation methods. <i>Water</i>, 11(2), 337. doi: 10.3390/w11020337</p> <p>Hazarika, A., & Goswami, D. C. (2019). Ecosystem services of Deepor Beel wetland in Assam, India. <i>Journal of Environmental Management</i>, 248, 109321.</p> <p>29</p>	
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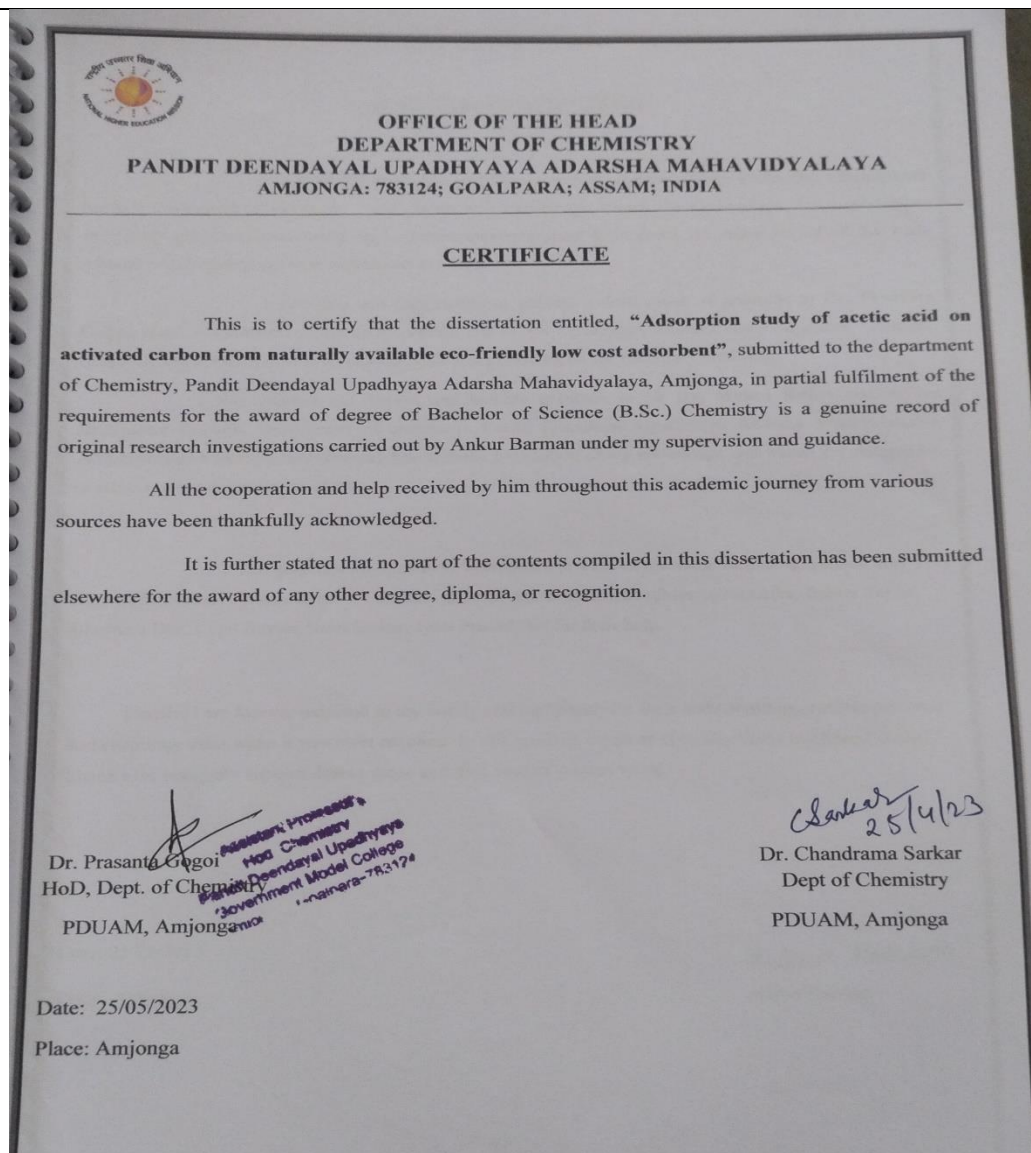

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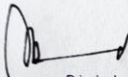

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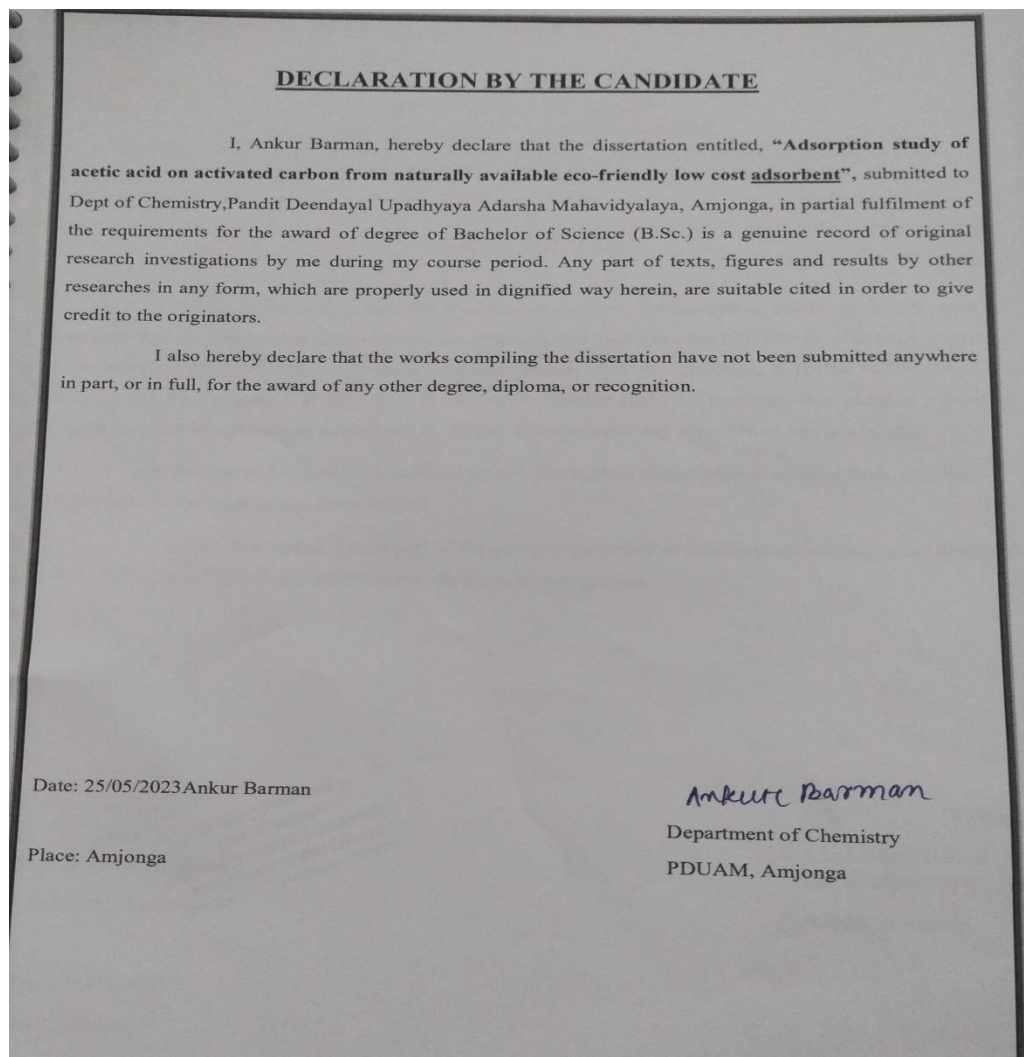


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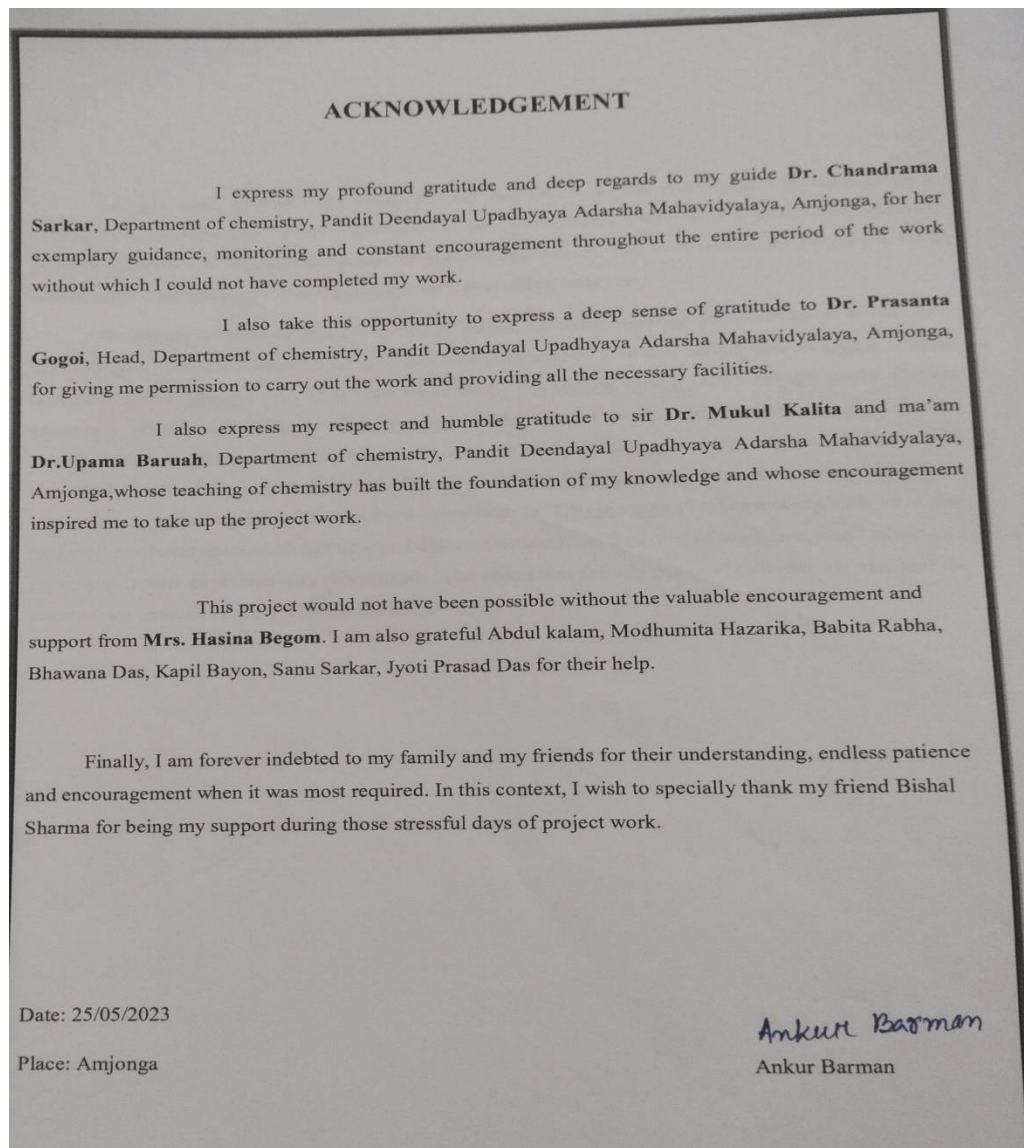


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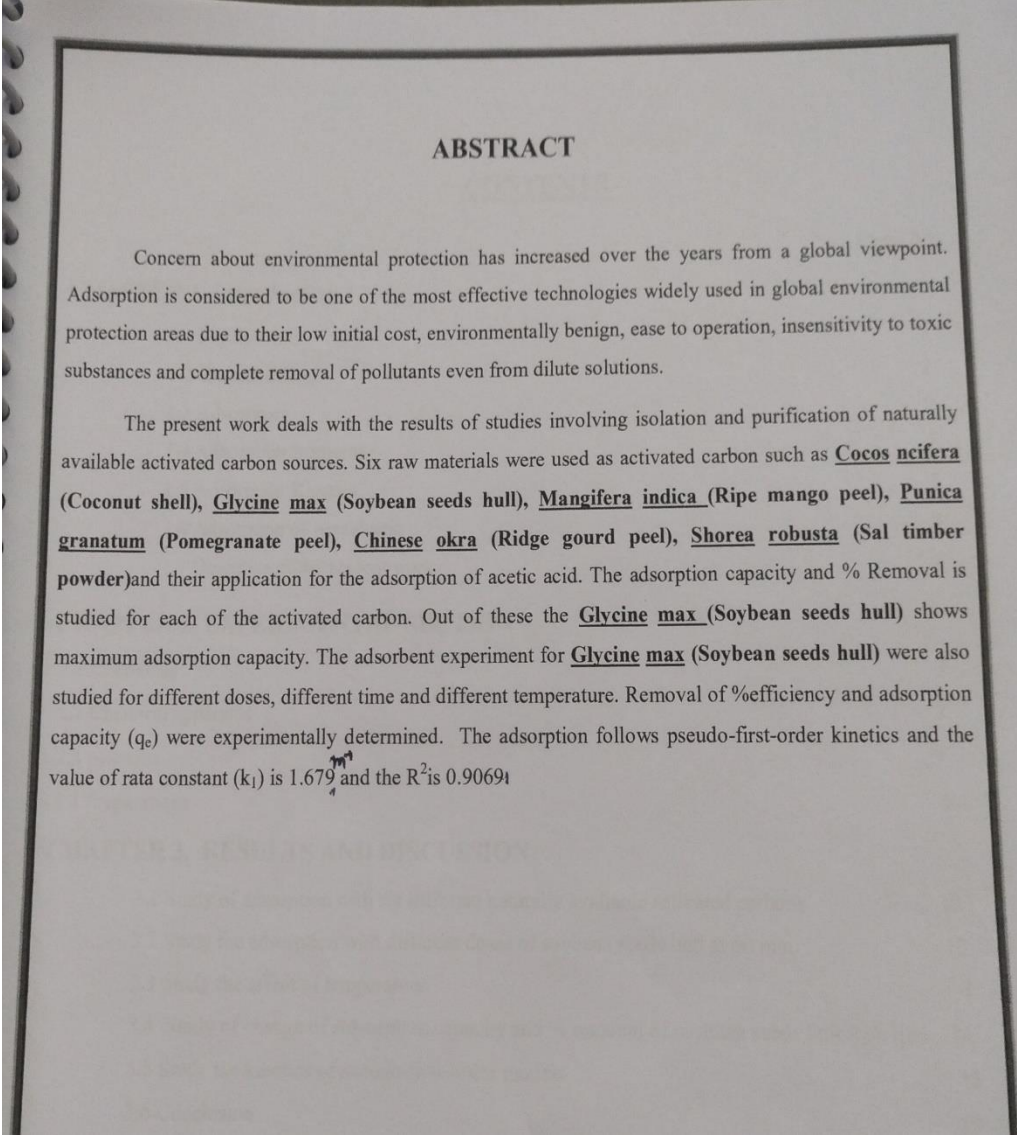
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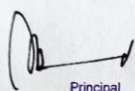
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 <p style="text-align: center;">ABSTRACT</p> <p>Concern about environmental protection has increased over the years from a global viewpoint. Adsorption is considered to be one of the most effective technologies widely used in global environmental protection areas due to their low initial cost, environmentally benign, ease to operation, insensitivity to toxic substances and complete removal of pollutants even from dilute solutions.</p> <p>The present work deals with the results of studies involving isolation and purification of naturally available activated carbon sources. Six raw materials were used as activated carbon such as <u>Cocos nucifera</u> (Coconut shell), <u>Glycine max</u> (Soybean seeds hull), <u>Mangifera indica</u> (Ripe mango peel), <u>Punica granatum</u> (Pomegranate peel), <u>Chinese okra</u> (Ridge gourd peel), <u>Shorea robusta</u> (Sal timber powder) and their application for the adsorption of acetic acid. The adsorption capacity and % Removal is studied for each of the activated carbon. Out of these the <u>Glycine max</u> (Soybean seeds hull) shows maximum adsorption capacity. The adsorbent experiment for <u>Glycine max</u> (Soybean seeds hull) were also studied for different doses, different time and different temperature. Removal of % efficiency and adsorption capacity (q_e) were experimentally determined. The adsorption follows pseudo-first-order kinetics and the value of rate constant (k_1) is 1.679 and the R^2 is 0.9069.</p>	
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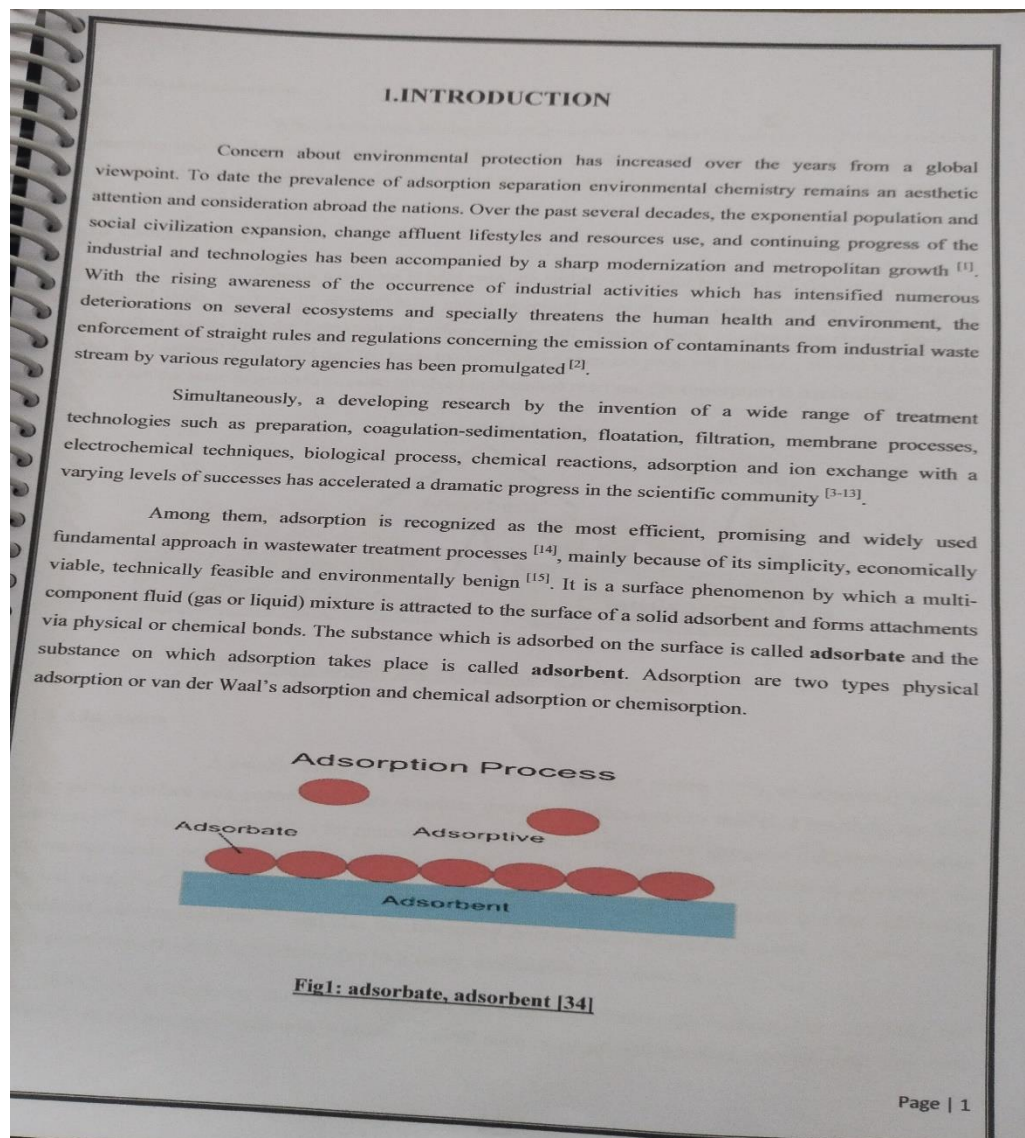
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2. EXPERIMENTAL SECTION

2.1 Chemicals

The chemicals used are all reagent grade product. The source of chemical is given below. Acetic acid acetic acid glacial Extrapure, C₂H₄O₂; SDFCL FINE-CHEM limited), sodium hydroxide pellets (Thermos Fischer Scientific India Ltd. 403-404), and phenolphthalein indicator solution ((a pH: 8.3-10.0) HUMAN DIAGNOSTIC & SURGICHEM), Distilled water (Thermos Fischer Scientific India Pvt. Ltd. 403-404).

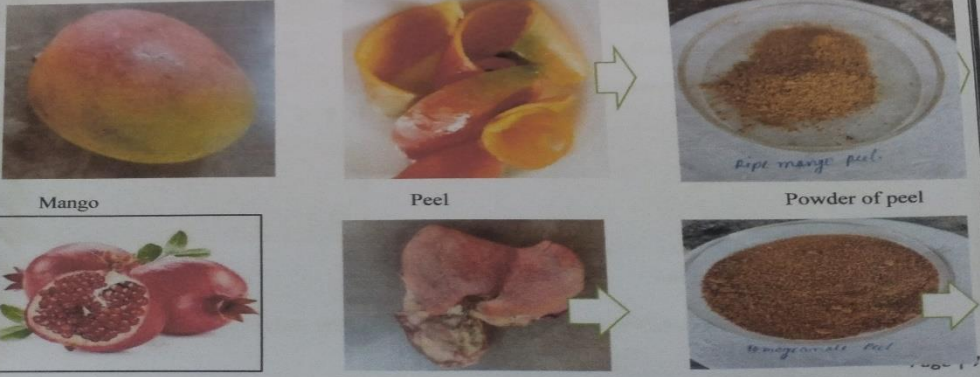
2.2 chemical apparatus

1000 ml 2 beaker, 500 ml one beaker, 100ml beakers, measuring cylinder, volumetric flasks, burette, pipette, funnels, wire gauze, oven, weight Machine (KERRO) stir, tripod stand, filter papers, electric shaker, burette stand, conical flask, dropper.

2.3 Isolation of adsorbents:

The six raw materials Cocos nucifera (Coconut shell), Glycine max (Soybean seeds hull), Mngifera indica (Ripe mango peel), Punica granatum (Pomegranate peel), Chinese (Ridge gourd peel), Shorea robusta (Sal timber powder) were synthesized as follows:

Washed with water 10-15 minutes and then dried in oven at temperature range 400-660 degree celcius upto 7-8 hours and then grinded the materials till become powdered and then the powdered substances again washed with water and dried and then stored in a sample holder box of each.



Mango Peel Powder of peel

Mango Peel Powder of peel

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4. Preparation

4.1 Preparation of acetic acid

By using normality formula $N_1V_1=N_2V_2$ Where the concentration of acetic acid (N1) is 17.4N, Concentration we need (N2) is 0.5N and V2 is 1000 ml and by substituting the value in above equation

i.e. $V_1 = \frac{0.5 \times 1000}{17.4}$ then we get 28.7ml.

So to prepare 0.5N added 28.7 ml of acetic acid in 1000 distilled water. and by distilled the solution to other normality of solutions was prepared and labelled ml.

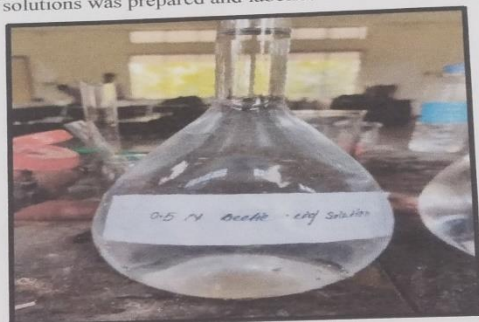


Fig7: Acetic acid solution

4.2 Preparation of 0.1N NaOH solution

To prepare 0.1N of NaOH solution dissolved 4g of sodium hydroxide pellets in 1000 ml distilled water in 1000ml volumetric flask after that mixed the solution and labelled.

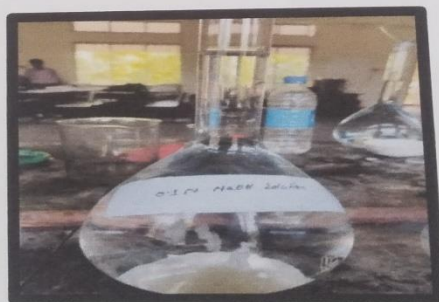


Fig8: 0.1N NaOH solution

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3. Results and discussion

The adsorption capacity (q_e , mg/g) of the hybrid and the percentage removal of acetic acid concentration by the adsorbent can be calculated as follows

Adsorption capacity (q_e) = $(C_o - C_e) * V / m$

% removal = $100 * (C_o - C_e) / C_o$

Where, C_o is the initial concentration and C_e is the equilibrium concentration of acid (mg/L), V is the volume of the solution (L), and m is the mass of the adsorbent

3.1 Study of adsorption with six different naturally available activated carbons:

The synthesized six naturally available activated carbons were taken (1g) and then added 20 ml of acetic acid in 100 ml beaker and placed onto shaker for 1 hour and filtrated the extract and then 5ml of filtrate solution was taken in a 100ml conical flask and added 2-3 drops of phenolphthalein indicator and titrate against burette solution of NaOH and the obtained data given in **Table 1**


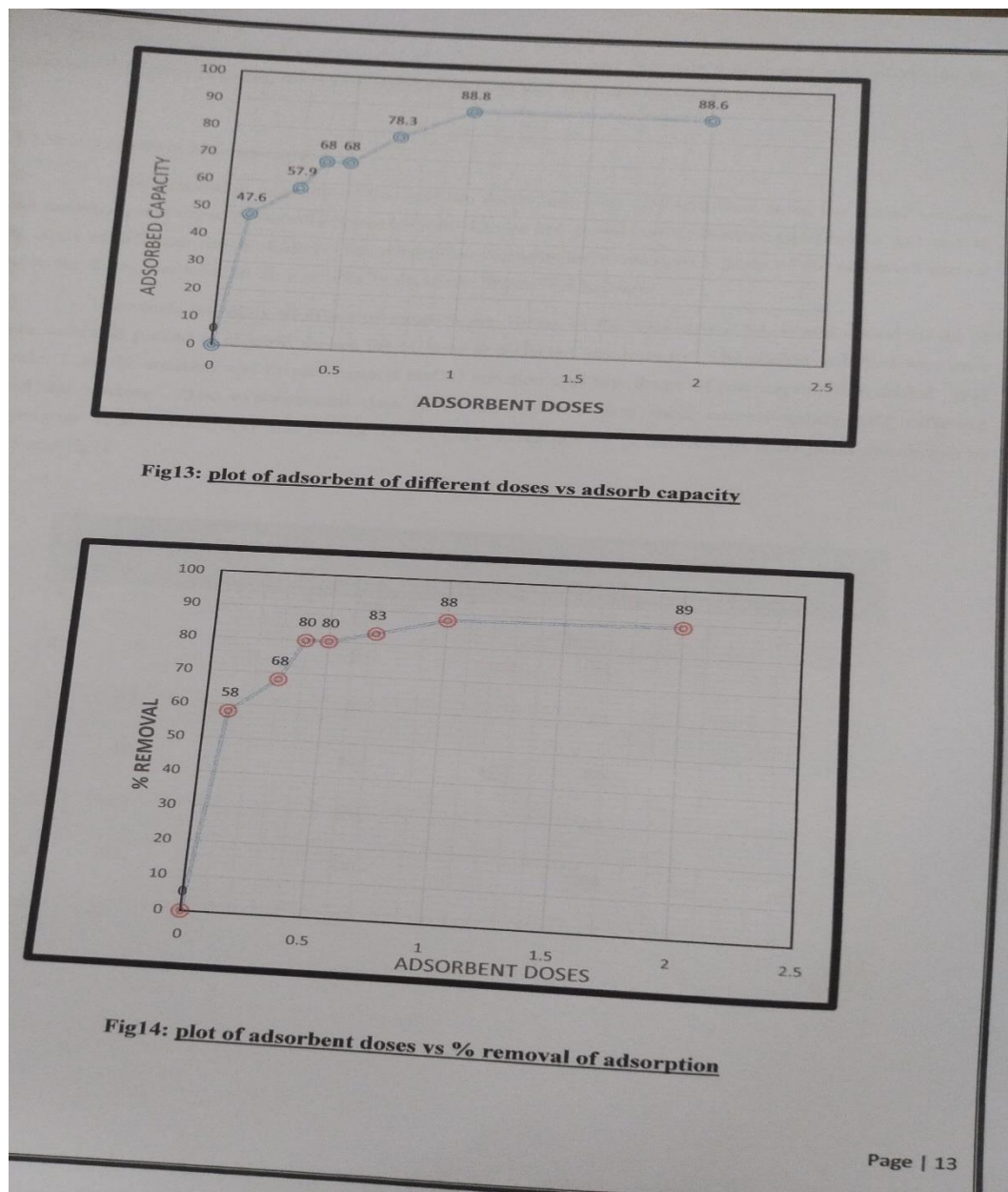


Fig9: Filtration process of the adsorbent

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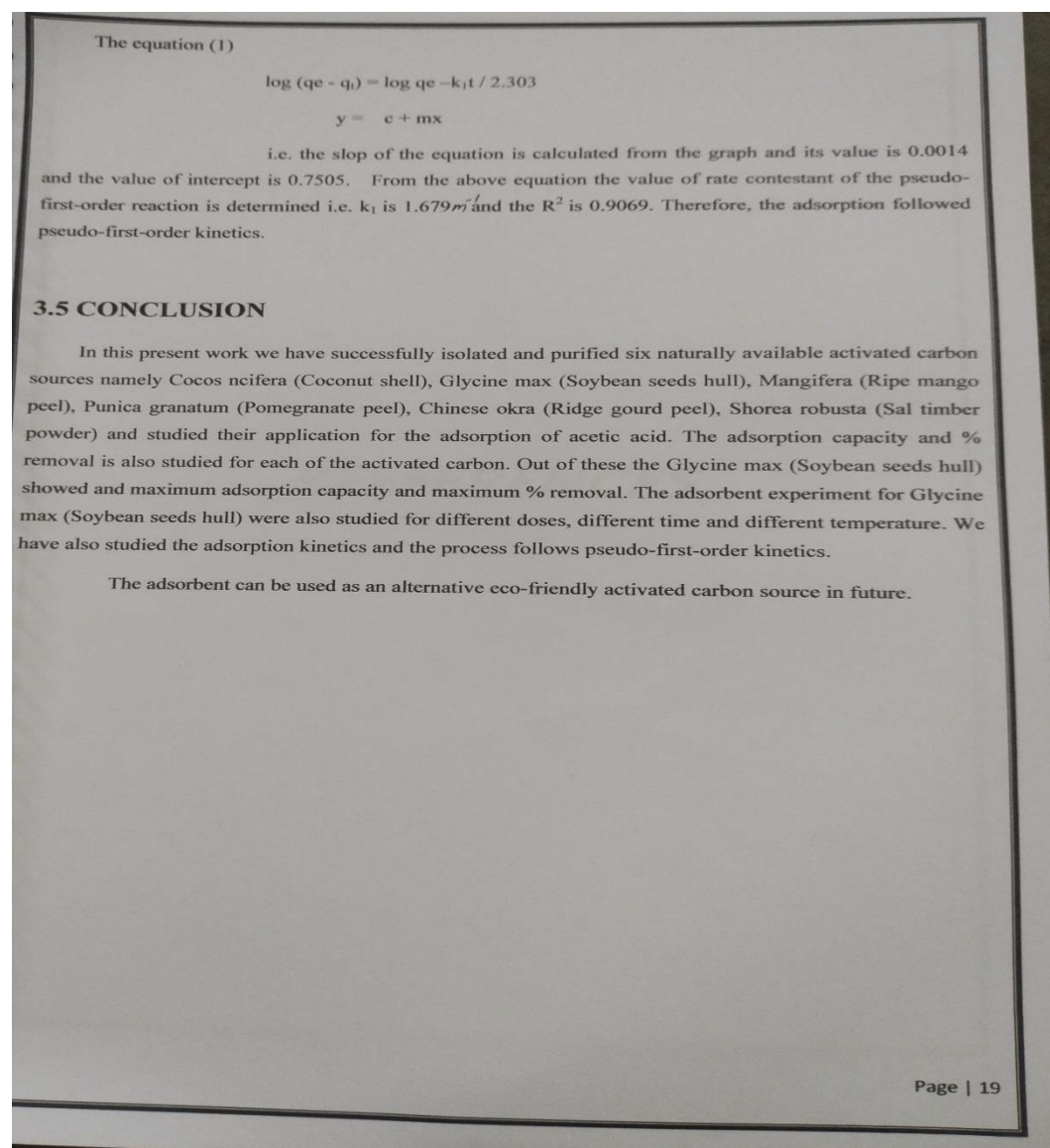
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<p>A STUDY OF INSECT DIVERSITY IN PRITHUPARA, DARRANGGIRI, GOALPARA</p> <p>A dissertation submitted in partial fulfilment of the requirement for the degree of Bachelor of Science</p> <p>Name: Diman Kalita Registration No: 20037411 Roll No: US-201-183-0013 Paper Code: ZOO-HE-6056 Session: 2022-23</p> <p><i>Examined 22/5/23</i></p>  <p>Name of the Supervisor: Dr. Mitali Chetia</p> <p>Department of Zoology Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Amjonga-783124, Goalpara, Assam</p>	
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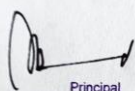
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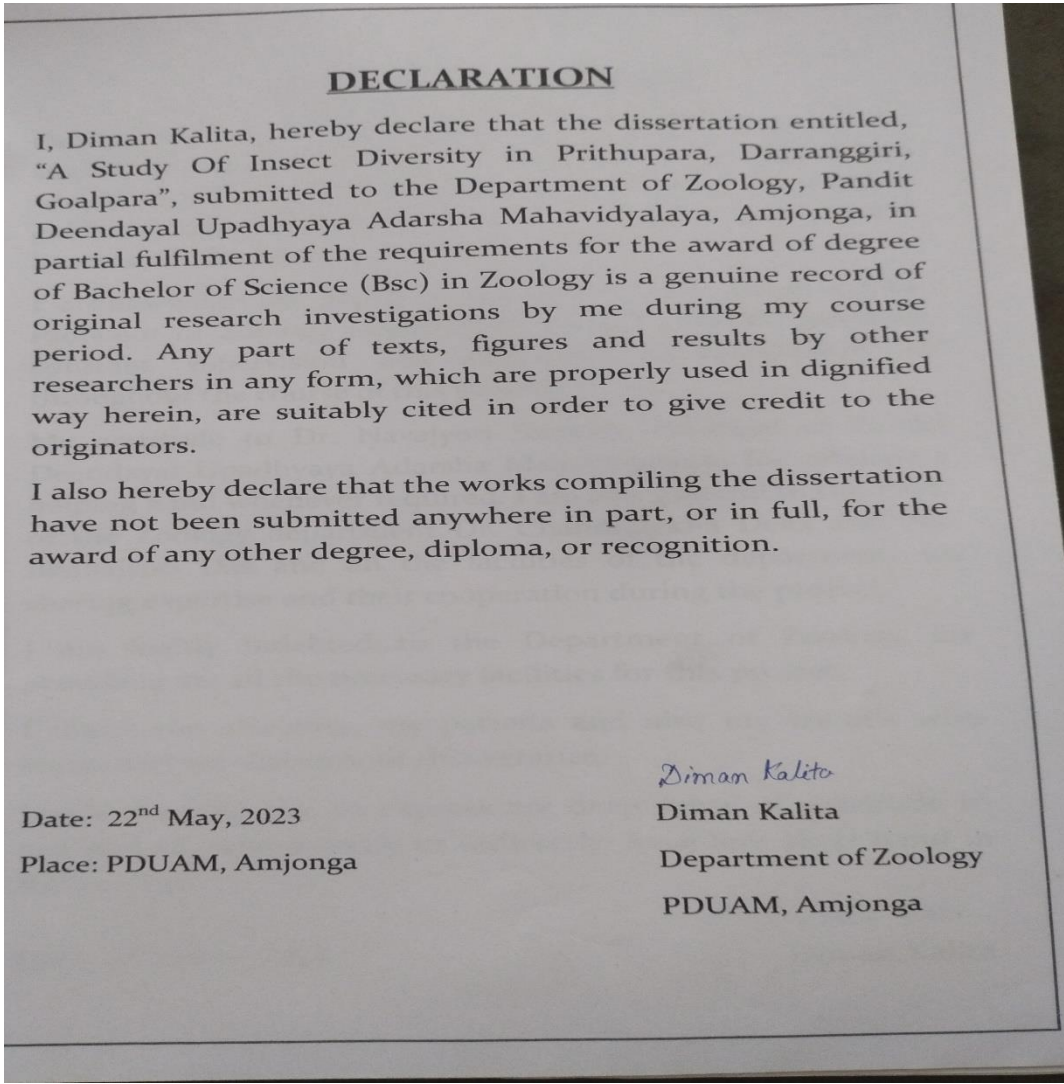
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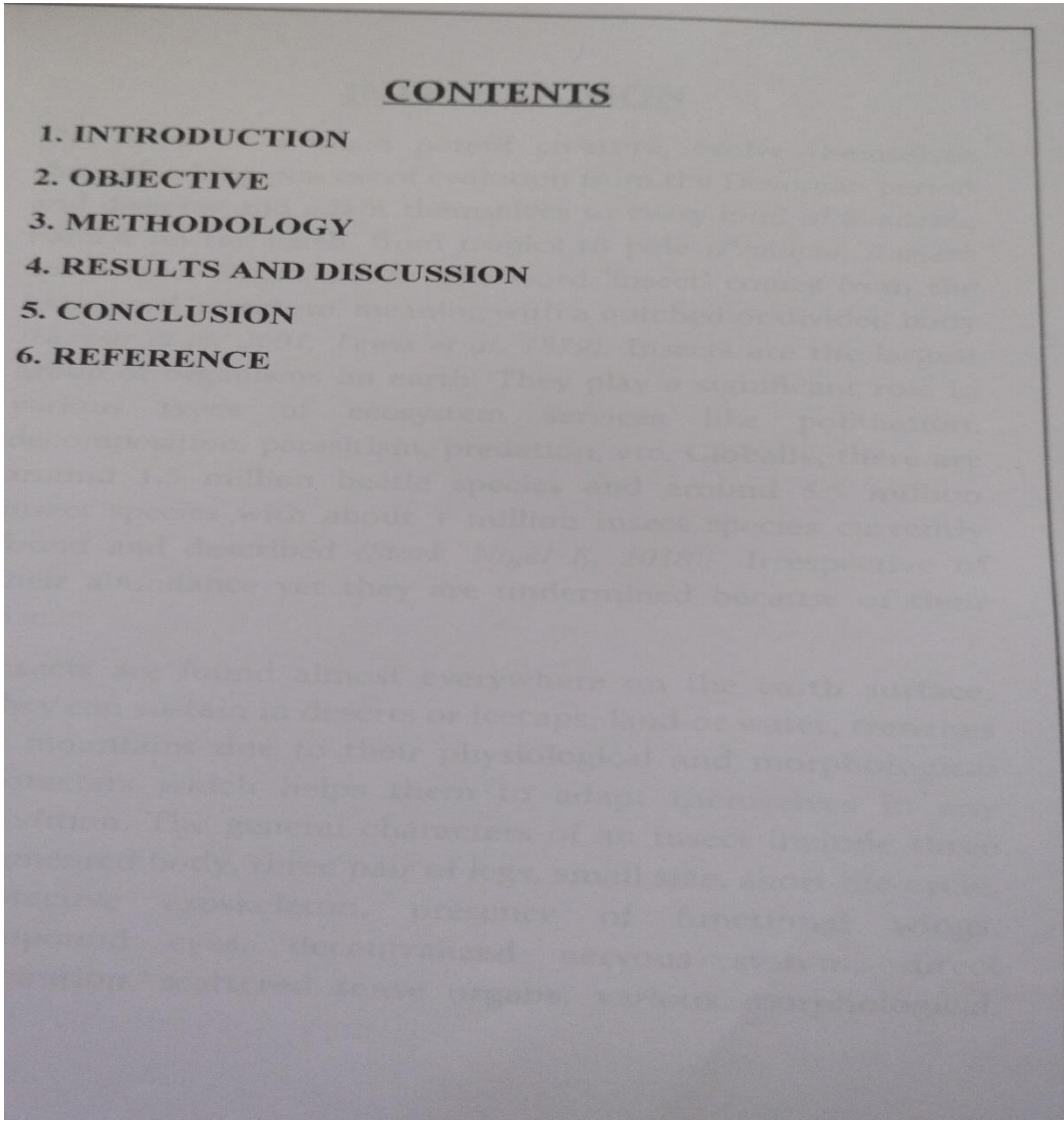
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<div style="text-align: center;"><u>ACKNOWLEDGEMENT</u></div> <p>On the very outset of this project, I would like to extend my sincere and heartfelt obligation towards all the personages who have helped me in this endeavour. Without their active guidance, help and encouragement, I would not have made headway in the project.</p> <p>I acknowledge my depth to my mentor, Dr. Mitali Chetia, Professor of Zoology Department, for her valuable guidance, constant supervision and unceasing encouragement all throughout the course of this project.</p> <p>My gratitude to Dr. Navajyoti Sarmah, Principal of Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, for offering a helping hand whenever required. I am also grateful to the HOD of the Zoology department Dr. Chandrlekha Deka and Mr. Bhabajyoti Das and all the faculties of the department for sharing expertise and their cooperation during the project.</p> <p>I am highly indebted to the Department of Zoology for providing me all the necessary facilities for this project.</p> <p>I thank the almighty, my parents and also my friends who supported me throughout this venture.</p> <p>Lastly, I would like to express my deep sense of gratitude to one and all, who directly or indirectly, have lent their hand in this project.</p> <p style="text-align: right;"><i>Diman Kalita</i> Diman Kalita</p> <p>Date: 22nd May, 2023</p>	
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 <p style="text-align: center;">CONTENTS</p> <ol style="list-style-type: none"> 1. INTRODUCTION 2. OBJECTIVE 3. METHODOLOGY 4. RESULTS AND DISCUSSION 5. CONCLUSION 6. REFERENCE 	
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METHODOLOGY

Study Area

Prithupara is a small village located on the South of Darranggiri in the Goalpara district on state of Assam. The village is 97 km away from Guwahati city and 42 km away from the town of Goalpara. The area is on the latitude 25.95 N and longitude 90.89 E. The climate is warm and subtropical and the temperature ranges from 9°C to 38°C in winter and summer respectively. The average rainfall is 178 to 450 cm and average humidity is 83.0%. The village has an ample population of insects along with other wild varieties of flora and fauna. The village contains varied natural habitats ranging from grasslands, forests, wetlands and many small and medium size ponds. The survey of insects are carried out in three different study sites- Open area, Wetlands and Human habitats area.


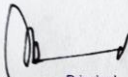


Image: Map of Prithupara , Darranggiri, Goalpara, Assam.

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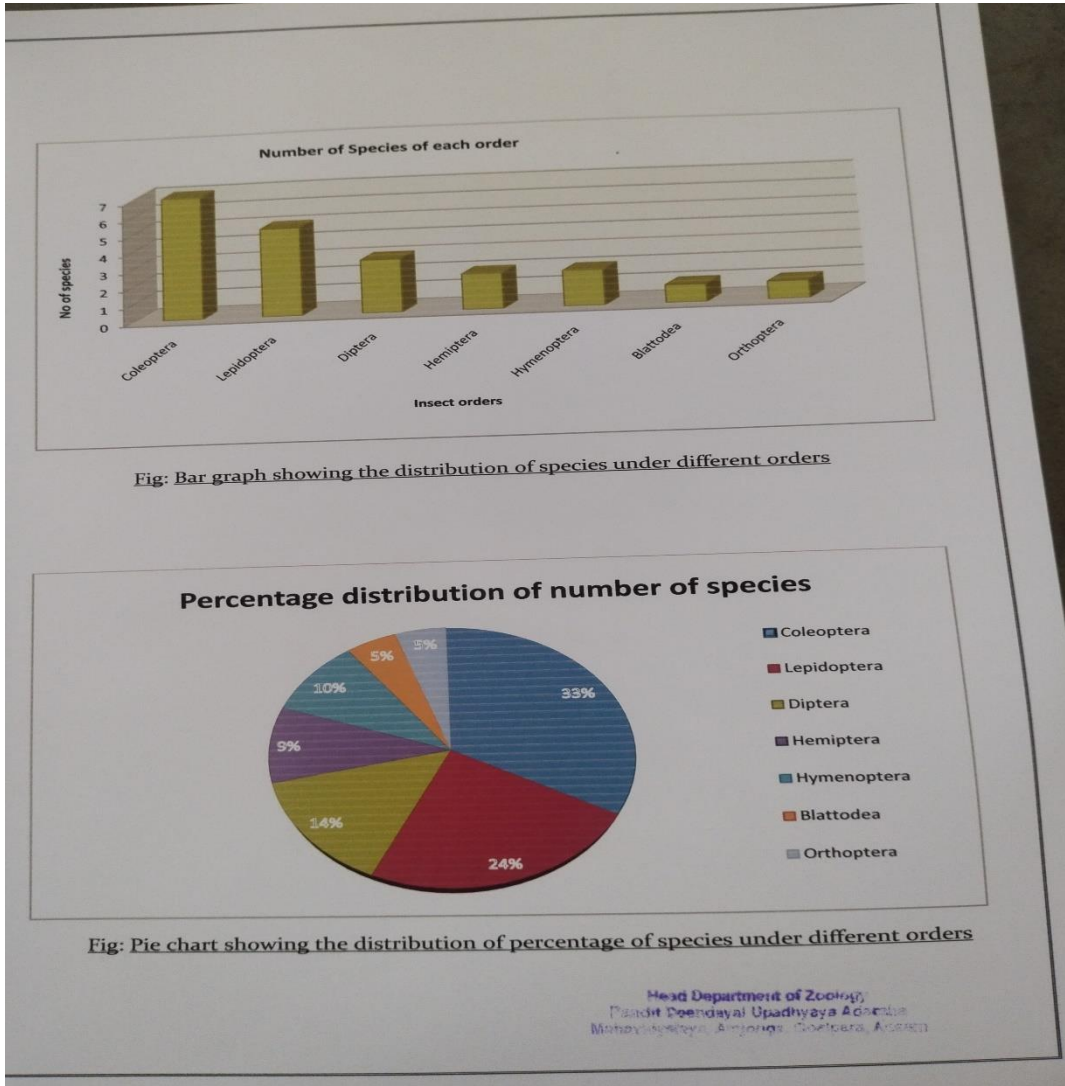
RESULTS AND DISCUSSION

From the survey, 21 species of insects belonging to 7 orders and 17 families were found and displayed in the following table:

Sl. NO	Scientific Name	Phylum	Class	Order	Family	Genus	Species
1	<i>Monolepta signata</i>	Arthropoda	Insecta	Coleoptera	Chrysomelidae	<i>Monolepta</i>	<i>M. signata</i>
2	<i>Ophionea nigrofasciata</i>	Arthropoda	Insecta	Coleoptera	Carabidae	<i>Ophionea</i>	<i>O. nigrofasciata</i>
3	<i>Cycloneda sanguinea</i>	Arthropoda	Insecta	Coleoptera	Coccinellidae	<i>Cycloneda</i>	<i>C. sanguinea</i>
4	<i>Altica oleracea</i>	Arthropoda	Insecta	Coleoptera	Chrysomelidae	<i>Altica</i>	<i>A. oleracea</i>
5	<i>Cantharis pellucida</i>	Arthropoda	Insecta	Coleoptera	Cantharidae	<i>Cantharis</i>	<i>C. pellucida</i>
6	<i>Paropsis intermedia</i>	Arthropoda	Insecta	Coleoptera	Chrysomelidae	<i>Paropsis</i>	<i>P. intermedia</i>

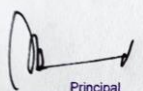
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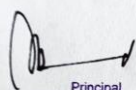
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<div style="text-align: center;"><u>CONCLUSION</u></div> <p>Insects are most diverse, successful and dominant taxon of the animal kingdom. They are found in almost every habitat across the globe. It is due to their diverse body size, habit, fecundity, different modes of respiration, food diversity, etc, because of these diverse characteristics, they became an important component of our ecosystem (<i>Prakhar Prerana et al, 2021</i>).</p> <p>The study centred on the forecasting of diversity of insects found in Prithupara, Darranggiri, results in 21 different species of insects. All total 21 species were documented from different areas during the month of March, 2023. The insects were identified using keys available in Richard and Davies (1997), Borror and de Long (1992) and standard manuals. The methodology included active searching from ground level to tree canopy level which is easily accessible for hand collection and visual surveys. The 21 different species of insects belonging to 7 different orders were observed. The diversity study revealed that Coleoptera (7 species) were most dominant followed by Lepidoptera (5 species), Diptera (3 species), Hemiptera (2 species), Hymenoptera (2 species), Blattodea (1 species) and Orthoptera (1 species).</p> <p>The knowledge gathered here will provide useful information for future studies aiming to understand more deeply the process of speciation and faunal diversity of insects in Prithupara, Darranggiri, Goalpara. There is an ample quantity</p>	
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