



গড়গাঁও মহাবিদ্যালয়  
GARGAON COLLEGE  
NAAC accredited with 'B' Grade

**Project Report  
of  
Department of Chemistry**





গড়গাঁও মহাবিদ্যালয়  
GARGAON COLLEGE  
NAAC accredited with 'B' Grade

**Details of the Course:**

Chemistry (Honours)

(6<sup>th</sup> Semester)

Course No.: Chemistry-DSE-603

Dissertation

(Project Work)

Full Marks-100 [Dissertation (80) Internal Assessment (20)]

(Credit-6)

**Objective of the Course:** To develop the written and verbal communication. To present information in a clear and effective manner, to write report in a scientific style and to solve scientific problems.

**Expected Learner Outcome: Students will gain an understanding of: ---**

- i. Communication effectively, verbally and written for the purpose of conveying chemical information to both professional scientist and to the public.
- ii. Availability of instrument for conducting specific, scientific research

In this paper students have to carry out project work (Laboratory experiments or Comprehensive Review work on a specified topic) either at their respective colleges or any other R&D laboratory and UGC recognized University under guidance of a faculty member. The student may start their project work during the semester break between fifth and sixth semester. The area of work is to be decided by the advisor. On completion of the project work students have to submit the work in the form of a dissertation followed by oral presentation in the presence of faculty member and an external expert.

[Mark Distribution for evaluation of the Project Work]

A. Laboratory Experiment

1. Literature Review (5 Marks)
2. Objectives (5 Marks)
3. Experimental work (25 Marks)
4. Results & Discussions (25 Marks)
5. Presentation and Viva (20 Marks)



6. IA (20 Marks)

B. Comprehensive Review

1. Objective (5 Marks)

2. Review (35 Marks)

3. References (10 Marks)

4. Future prospects (10 Marks)

5. Presentation and Viva (20 Marks)

6. IA (20 Marks)

Students are encouraged to carry out laboratory experiment individually (However in case of infrastructural issues a maximum of 4 students can perform experiments together). Comprehensive review must be carried out individually. Students are encouraged to submit Antiplagiarism certificate for the report/review.

**Name of the student completed project during the session (2022-2023):**

Sr. No.	Program name	Program Code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship
1	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Ashif Hussain
2	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Ashish Gogoi
3	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Bikramaditya Phukon
4	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Biswajeet Changmai



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5	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Dipjyoti Das
6	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Kalpa Jyoti Handique
7	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Khirumoni Mohan
8	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Monuj Gogoi
9	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Mrinal Phukon
10	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Pritom Phukon
11	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Roktim Raj Gogoi
12	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Sourov Gogoi
13	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Sushil Boruah
14	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Abhishruti Gogoi
15	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Ankita Chetia
16	B.Sc 6th Sem	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Kalyani Boruah



	Chemistry Major					
17	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Priyanka Talukdar
18	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Protyasha Borkotoky
19	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Sandhane Phukon
20	B.Sc 6th Sem Chemistry Major	CHMM-608	B.Sc. 6th Sem Project Work	MM 608	2023	Stuti Buragohain

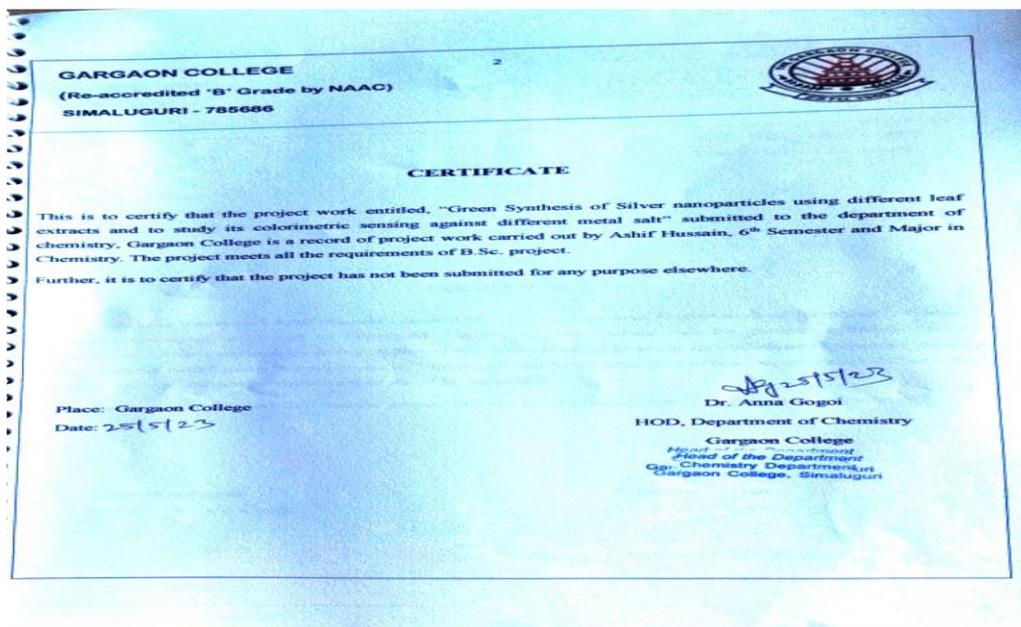
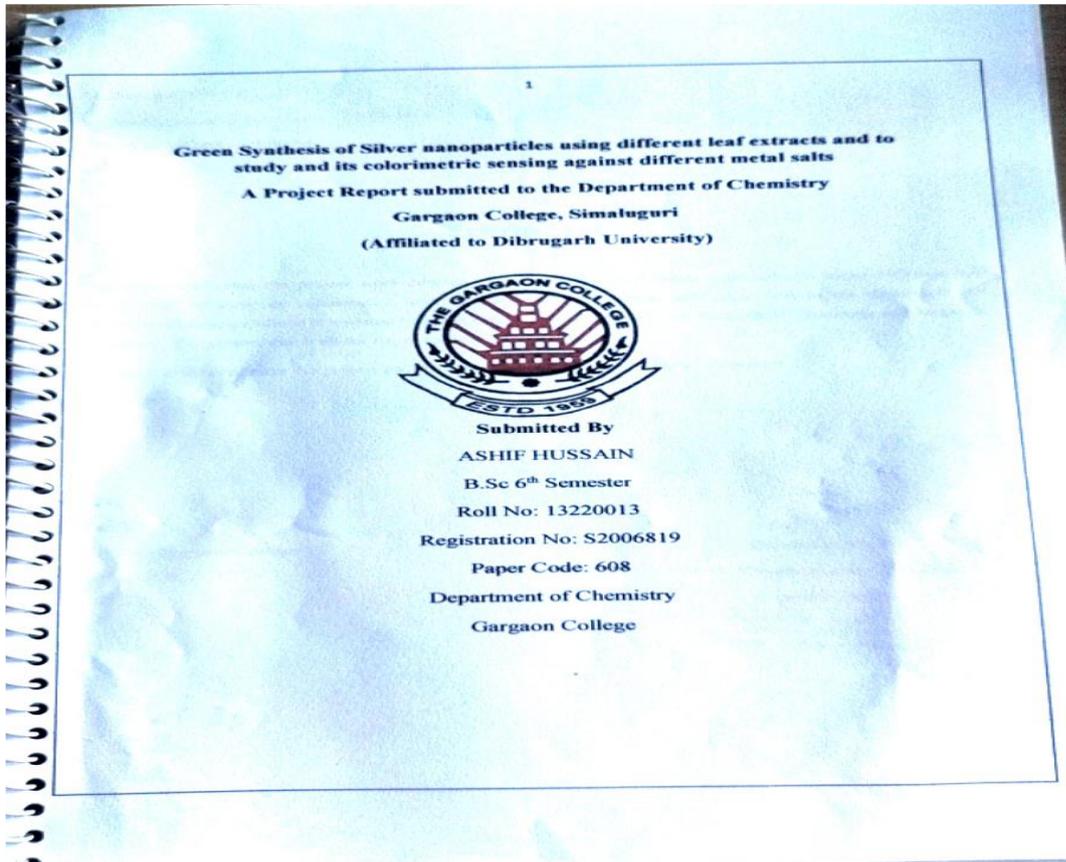
Some Facilities in the Department:





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Project details of the students are given below:





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GARGAON COLLEGE  
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**WATER QUALITY ANALYSIS OF DIKHOW  
RIVER AT TWO SITES OF SIVASAGAR  
DISTRICT**

A project report submitted to the Department of Chemistry  
Gargaon College, Simaluguri  
Affiliated to Dibrugarh University



**Submitted by**

Ashish Gogoi  
B. Sc 6<sup>th</sup> semester  
Roll No.: 13220014  
Paper Code: DSE-603  
Paper Title: Dissertation Chemistry  
Registration No.: S2006820  
Year: 2023  
Department of Chemistry



**DEPARTMENT OF CHEMISTRY  
GARGAON COLLEGE**

ESTD: 1959, Reaccredited by NAAC with B Grade  
Simaluguri - 785686, Sivasagar, Assam  
E-mail: chemistry.gc21@gmail.com

Dr. Anna Gogoi  
HOD & Assistant Professor

Ref. No. 25/05/23/14

**CERTIFICATE**

This is to certify that the project work entitled, "WATER QUALITY ANALYSIS OF DIKHOW RIVER AT TWO SITES OF SIVASAGAR DISTRICT" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by Ashish Gogoi, 6<sup>th</sup> semester, major in Chemistry. The project meets all the requirements of B. Sc. project.

Further, it is also certified that the project has not been submitted for any purposes elsewhere.

Place: Gargaon College  
Date: 25.05.2023

*25/5/23*  
(Dr. Anna Gogoi)  
HOD, Department of Chemistry,  
Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri



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GARGAON COLLEGE  
NAAC accredited with 'B' Grade

**WATER QUALITY ANALYSIS OF DIKHOW  
RIVER AT TWO SITES IN SIVSAGAR**

A project report submitted to the Department of Chemistry  
Gargaon College, Simaluguri  
Affiliated to Dibrugarh University



**Submitted by**  
Bikramaditya Phukon  
B. Sc 6<sup>th</sup> semester  
Roll No.: 13220019  
Paper Code: DSE-603  
Paper title: Dissertation Chemistry  
Registration No.: S2006827  
Year: 2023  
Department of Chemistry



**DEPARTMENT OF CHEMISTRY**  
**GARGAON COLLEGE**  
ESTD: 1959, Reaccredited by NAAC with B Grade  
Simaluguri - 785686, Sivasagar, Assam  
E-mail: gargaoncollege@rediffmail.com

Ref. No. 25/5/2023/9

**CERTIFICATE**

This is to certify that the project work entitled, "Project Report On Water Quality of Dikhow River" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by Bikramaditya Phukon, 6<sup>th</sup> semester, major in Chemistry. The project meets all the requirements of B. Sc. project.

Further, it is also certified that the project has not been submitted for any purposes elsewhere.

Place: Gargaon College  
Date: 25/5/23

*25/5/23*  
(Dr. Anna Gogoi)  
HoD, Department of Chemistry,  
Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri



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## WATER QUALITY ANALYSIS OF DIKHOW RIVER AT TWO SITES IN NAZIRA

A project report submitted to the Department of Chemistry  
Gargaon College, Simaluguri  
Affiliated to Dibrugarh University



### Submitted by

Bishwajeet Changmai  
B. Sc 6<sup>th</sup> semester  
Roll No.: 13220023  
Paper Code: DSE-603  
Paper Title: Dissertation Chemistry  
Registration No.: S200683  
Year: 2023  
Department of Chemistry



### DEPARTMENT OF CHEMISTRY GARGAON COLLEGE

ESTD: 1959, Reaccredited by NAAC with B Grade  
Simaluguri - 785686, Sivasagar, Assam  
E-mail: chemistry-gc21@gmail.com

Dr. Anna Gogoi  
HOD & Assistant Professor

Ref. No. 25/05/23/M

### CERTIFICATE

This is to certify that the project work entitled, "WATER QUALITY ANALYSIS OF DIKHOW RIVER AT TWO SITES IN NAZIRA" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by Bishwajeet Changmai, 6<sup>th</sup> semester, major in Chemistry. The project meets all the requirements of B. Sc. project.  
Further, it is also certified that the project has not been submitted for any purposes elsewhere.

Place: Gargaon College  
Date: 25/05/23

*25/05/23*  
(Dr. Anna Gogoi)  
HOD, Department of Chemistry,  
Gargaon College  
Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri



গড়গাঁও মহাবিদ্যালয়  
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Green Synthesis of Silver nanoparticles using Mikania scandens (climbing hempweed) leaf extracts and to study its change in colour and absorption using UV-Visible spectrophotometer at different pH and temperature"

A Project Report Submitted to the Department of Chemistry,  
Gargaon College, Simaluguri  
(Affiliated to Dibrugarh University)



Submitted By

DIPJYOTI DAS

B. Sc. 6<sup>th</sup> Semester

Roll No: 13220035

Registration No: S2006847

Paper Code: 608

Department of Chemistry  
Gargaon College 2023

GARGAON COLLEGE  
(Re-accredited 'B' Grade By NAAC)  
SIMALUGURI-785686



#### CERTIFICATE

This is to certify that the project work entitled, "Green **Synthesis of silver nanoparticle using leaf extract and to study the effect of pH and temperature on silver nanoparticle preparation**" submitted to the department of chemistry, Gargaon College is a record of project work carried out By Dipjyoti Das, 6<sup>th</sup> Semester and Major in chemistry. The project meets all the requirement of B. Sc project.

Further, it is also certified that the project has not been submitted for any purpose elsewhere.

Place: Gargaon College

Date:

Dr. Anna Gogoi

HOD, Department of Chemistry

Gargaon college



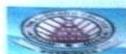
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GARGAON COLLEGE  
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**PREPARATION OF ACRYLAMIDE, ACRYLIC ACID AND  
Na-AMPS CONTAINING HYDROGEL AND SWELLING  
STUDIES OF pH SENSITIVE HYDROGEL**

A project report submitted to the Department of Chemistry,  
Gargaon College, Simaluguri  
(Affiliated to Dibrugarh University)

Submitted by: Kalpa Jyoti Handique  
B.Sc. 6<sup>th</sup> semester  
Paper code: DSE-602  
Department: Chemistry  
Roll. No: 13220048



Department of Chemistry  
Gargaon College, Simaluguri  
Sivasagar-785686, Assam, India

Dr. Anna Gogoi  
Assistant Professor, Dept. of Chemistry (HOD)

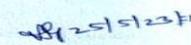
Date: 25/5/23  
Ref. No: 25/5/23/10

**CERTIFICATE**

This is to certify that the dissertation report entitled, "*Preparation of Acrylamide, acrylic acid and Na-AMPS containing hydrogel and swelling studies of pH sensitive Hydrogel*" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by *Kalpa Jyoti Handique*, 6<sup>th</sup> semester Chemistry honours student. The project meets all the requirements of B.Sc. project.

Further, it is also certified that the project has not been submitted for any purposes elsewhere.

Place: Gargaon College  
Date: 25/5/23

  
(Dr. Anna Gogoi)  
HOD, Department of Chemistry,  
Gargaon College  
Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri



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GARGAON COLLEGE  
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**Computational study of interaction of  
Clioquinol with IQTI protein**

A project report submitted to the Department of Chemistry  
Gargaon College, Simaluguri  
Affiliated to Dibrugarh University



**Submitted by**

Khirumoni Mohan  
B. Sc 6<sup>th</sup> semester  
Roll No: 13220053  
Paper Code: DSE-603  
Registration No: S2006880 of 2020 Year  
Department of Chemistry  
Gargaon College, Sivasagar, Assam

1



**DEPARTMENT OF CHEMISTRY**  
GARGAON COLLEGE  
Simaluguri 785686 Sivasagar, Assam  
Email:- chemistry.gc21@gmail.com

Ref.no.: 25/05/23/17

**CERTIFICATE**

This is to certify that the dissertation report entitled, "Computational study of interaction of Clioquinol with IQTI protein" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by Khirumoni Mohan. The project meets all the requirements of B.Sc. project.

Further, it is also certified that the project has not been submitted for any purposes elsewhere.

Place: Gargaon College

Date: 25/5/23

*Anna Gogoi*

(Anna Gogoi)  
HOD, Department of Chemistry,  
Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri

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গড়গাঁও মহাবিদ্যালয়  
GARGAON COLLEGE  
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Green Synthesis of Copper nanoparticles using Pogostemon cablin (Patchouli) leaf extracts and to study its change in absorption at different concentration using UV-Visible spectrophotometer then study some chemical conversion

A Project Report Submitted to the Department of Chemistry,  
Gargaon College, Simaluguri  
(Affiliated to Dibrugarh University)



Submitted By

MONUJ GOGOI

B. Sc. 6<sup>th</sup> Semester

Roll No.: 13220061

Registration No.: S2006898

Paper Code: 608

Department of Chemistry  
Gargaon College, 2023

GARGAON COLLEGE  
(Re-accredited 'B' Grade By NAAC)  
SIMALUGURI-785686



### CERTIFICATE

This is to certify that the project work entitled, "Green Synthesis of Copper nanoparticles using Pogostemon cablin (Patchouli) leaf extracts and to study its change in absorption at different concentration using UV-Visible spectrophotometer then study some chemical conversion" submitted to the department of chemistry, Gargaon College, is a record of project work carried out by Monuj Gogoi, 6<sup>th</sup> Semester student and major in chemistry. The project meets all the requirement of B. Sc. project.

Further, it is also certified that the project has not been submitted for any purpose elsewhere.

Place: Gargaon College

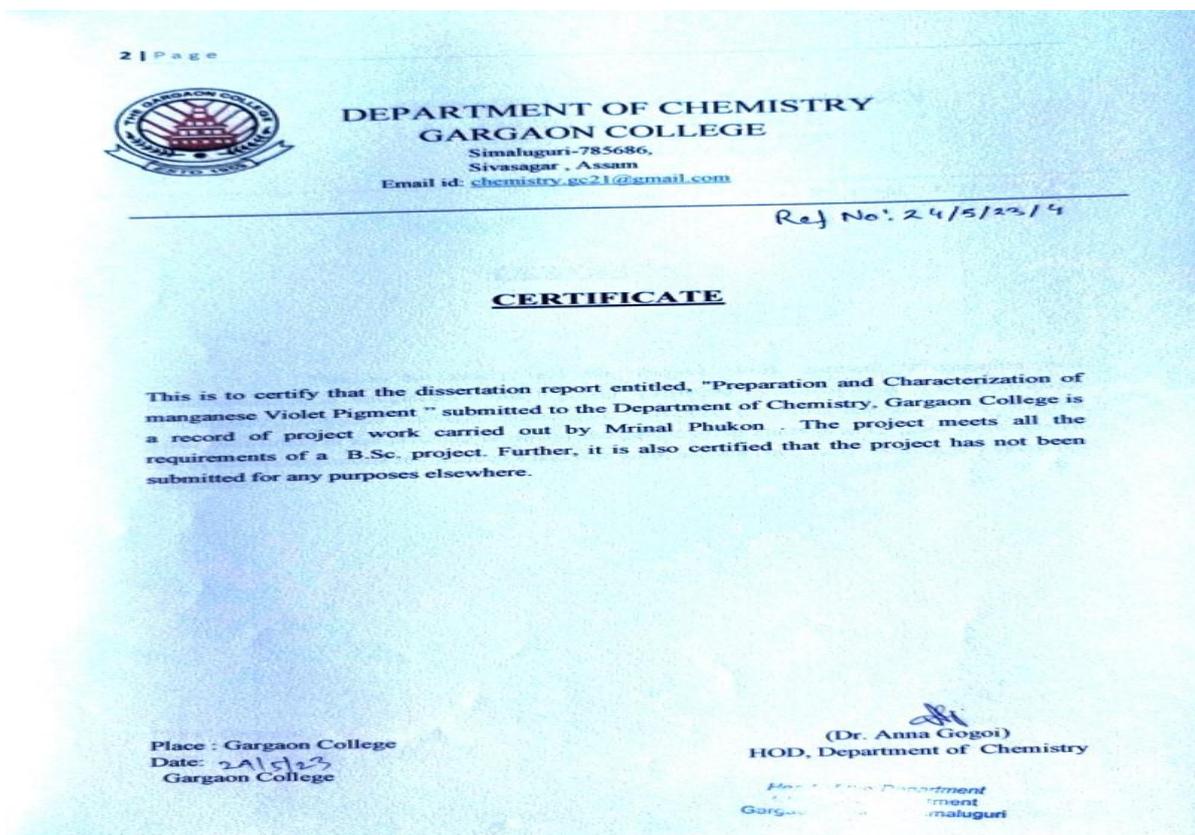
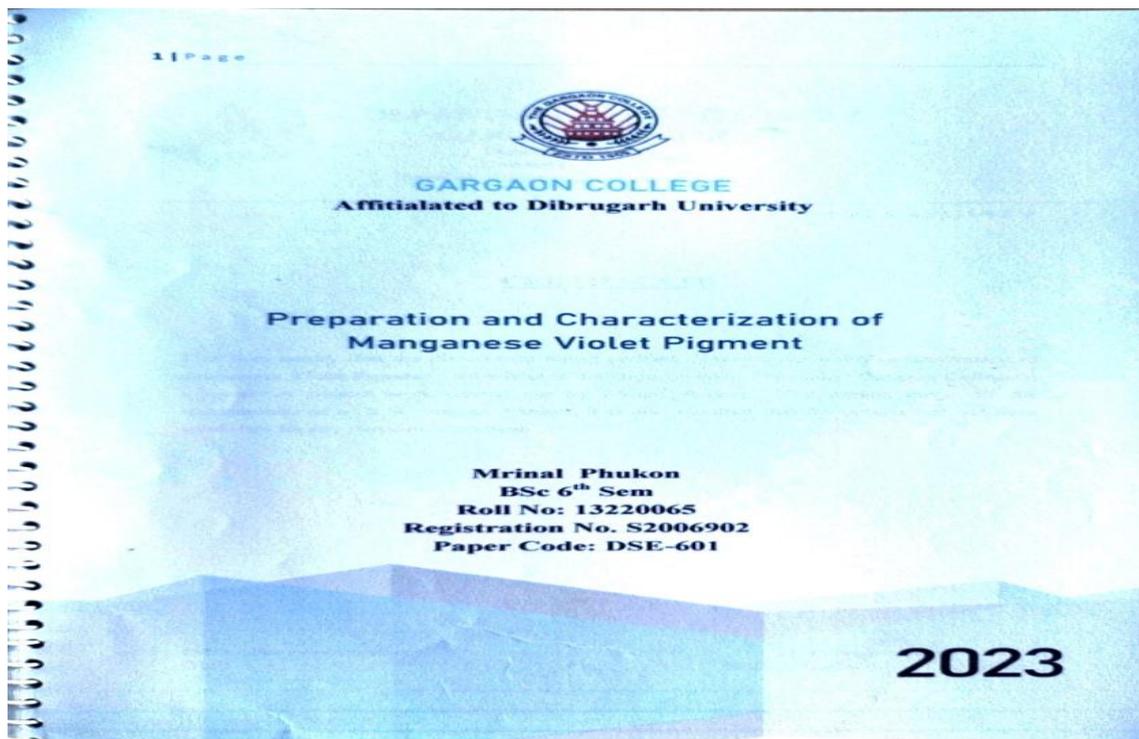
Date: 25/5/23

*Dr. Anna Gogoi*  
Dr. Anna Gogoi  
HOD, Department of Chemistry  
Gargaon college

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri



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### Computational study of Interaction of Memantine with IQTI Protein

A project report submitted to the Department of Chemistry  
Gargaon College, Simaluguri  
Affiliated to Dibrugarh University

Submitted By:-  
Pritom Phukon  
BSc 6<sup>th</sup> Sem  
Roll No: 13220078  
Paper Code: DSE-603  
Registration No. S2006933 of 2020 Year  
Department of Chemistry  
Gargaon College, 2023.

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Department of Chemistry  
Gargaon College  
Simaluguri-785686,  
Sivasagar, Assam  
Email id: chemistry.gc21@gmail.com

Ref.no.: 25/05/23/19

### CERTIFICATE

This is to certify that the dissertation report entitled, "Computational study of Interaction of Memantine with IQTI Protein" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by Pritom Phukon. The project meets all the requirements of a B.Sc. project. Further, it is also certified that the project has not been submitted for any purposes elsewhere.

Place : Gargaon College  
Date: 25/5/23

25/5/23  
(Dr Anna Gogoi)  
HOD, Department of Chemistry  
Gargaon College  
Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri



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## ANALYSIS OF GLUCOSE AND SUCROSE CONTENTS IN SOFT DRINKS

A Project Report Submitted to the Department of Chemistry, Gargaon College, Simaluguri  
(Affiliated to Dibrugarh University)



Submitted by  
Roktim Raj Gogoi  
B.Sc 6<sup>th</sup> semester  
Roll No: 13220086  
Registration No: S2006947  
Paper code: DSE-603  
Department of Chemistry  
Gargaon College  
2023



DEPARTMENT OF CHEMISTRY  
GARGAON COLLEGE  
Estd. 1969  
P.O. Simaluguri, Dist. Sivasagar (Assam), Pin: 785686  
Email: chemistry\_gc21@gmail.com

### DECLARATION CERTIFICATE

I, hereby declared that the project report entitled "*Analysis of Glucose and Sucrose Contents in Soft Drinks*" submitted to the Department of Chemistry, Gargaon College, is a record of the original research work carried out by me under the guidance of Dr. Pakiza Begum. Any text, figures, results, or design that are not of my own devising are appropriately referenced in order to give credit to the original author(s). All sources of assistance have been duly acknowledged. I also declared that neither this work as a whole nor a part of it has been submitted to any other University or Institute for award of any degree.

Place: Gargaon College  
Date: 24/05/23

Roktim Raj Gogoi  
(Roktim Raj Gogoi)  
Student, 6<sup>th</sup> sem  
Department of Chemistry  
Gargaon College



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**Preparation and Swelling Studies of Na-AMPS, Acrylamide and Acrylic Acid Containing Hydrogel**

**A project report submitted to the Department of Chemistry,  
Gargaon College, Simaluguri  
(Affiliated to Dibrugarh University)**

**Submitted by: Sourov Gogoi**

B.Sc. 6<sup>th</sup> semester

Paper code: DSE-602

Department: Chemistry

Roll. No: 13220098



**Department of Chemistry  
Gargaon College, Simaluguri  
Sivasagar-785686, Assam, India**

**Dr. Anna Gogoi**  
Assistant Professor, Dept. of Chemistry (HOD)

Date: 24/5/23  
Ref. No: 24/5/23/3

**CERTIFICATE**

This is to certify that the dissertation report entitled, "*Preparation and Swelling Studies of Na-AMPS, Acrylamide and Acrylic Acid Containing Hydrogel*" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by *Sourav Gogoi*, 6<sup>th</sup> semester Chemistry honours student. The project meets all the requirements of B.Sc. project.

Further, it is also certified that the project has not been submitted for any purposes elsewhere.

Place: Gargaon College  
Date: 24/5/2023

  
(Dr. Anna Gogoi)  
HOD, Department of Chemistry,  
Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri



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**WATER QUALITY ASSESSMENT OF RIVER  
DIKHOW**

A project report submitted to the Department of Chemistry,  
Gargaon College, Simaluguri  
(Affiliated to Dibrugarh University)

**Submitted by: Sushil Boruah**

B.Sc. 6<sup>th</sup> semester

Paper code: DSE-602

Department: Chemistry

Roll. No: 13220105

Reg No: S2006975



**Department of Chemistry**  
Gargaon College, Simaluguri  
Sivasagar-785686, Assam, India

**Dr. Anna Gogoi**  
Assistant Professor, Dept. of Chemistry (HOD)

Date: 25/05/23  
Ref. No: 25/5/2023/20

**CERTIFICATE**

This is to certify that the dissertation report entitled, "*Water quality assessment of river Dikhow*" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by *Sushil Boruah*, 6<sup>th</sup> semester Chemistry honours student. The project meets all the requirements of B.Sc. project.

Further, it is also certified that the project has not been submitted for any purposes elsewhere.

Place: Gargaon College

Date: 25/5/23

(Dr. Anna Gogoi)

HOD, Department of Chemistry,  
Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri



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GARGAON COLLEGE  
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Computational study of interaction of Galantamine  
with 1QTI protein  
A project report submitted to the Department of Chemistry  
Gargaon College, Simaluguri  
Affiliated to Dibrugarh University



Submitted by:  
Abhishruti Gogoi  
B. Sc 6th semester  
Roll No: 13220113  
Paper Code: DSE-602  
Registration No: S2006797 of 2020 Year  
Department of Chemistry

1



DEPARTMENT OF CHEMISTRY  
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Simaluguri- 785686, Sivasagar, Assam  
email: [chemistry\\_gc21@gmail.com](mailto:chemistry_gc21@gmail.com)

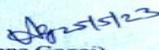
Ref.no : 25/05/23/18

CERTIFICATE

This is to certify that the project report entitled "Computational study of Interaction of Galantamine with 1QTI protein" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by Abhishruti Gogoi. The project meets all the requirements of B.Sc. project.

Further, it is also certified that the project has not been submitted for any purposes elsewhere.

Place: Gargaon College  
Date: 25/5/23

  
(Dr. Anna Gogoi)  
HOD, Department of Chemistry, Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri

2



গড়গাঁও মহাবিদ্যালয়  
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**Computational study of interaction of Donepezil  
with IQTI protein**

A project report submitted to the Department of Chemistry  
Gargaon College, Simaluguri  
Affiliated to Dibrugarh University



Submitted by

**Ankita Chetia**  
B. Sc 6th semester  
Roll No:13220116  
Paper Code: DSE-6.1  
Registration No:S2006807 of 2020 Year  
Department of Chemistry



**DEPARTMENT OF CHEMISTRY**  
GARGAON COLLEGE  
Simaluguri- 785686, Sivasagar, Assam  
email: chemistry.gc21@gmail.com

Ref. no. : 25/05/23/16

**CERTIFICATE**

This is to certify that the dissertation report entitled, "Computational study of interaction of Donepezil with IQTI protein" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by **Ankita Chetia**. The project meets all the requirements of B.Sc. project.  
Further, it is also certified that the project has not been submitted for any purposes elsewhere.

Place: Gargaon College  
Date: 25/5/23

(Anna Gogoi)  
HOD, Department of Chemistry,  
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## Synthesis and characterisation of Prussian blue pigment

A Project Report Submitted to the Department of Chemistry,  
Gargaon College, Simaluguri  
(Affiliated to Dibrugarh University)



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### CERTIFICATE

This is to certify that the dissertation report entitled, "*Synthesis and characterization of Prussian blue Pigment*" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by *Kalyani Boruah*. The project meets all the requirements of a B.Sc. project. Further, it is also certified that the project has not been submitted for any purposes elsewhere.

Place: Gargaon College  
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