

## CHEMISTRY

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the Course that includes experimental learning through project work/field work/internships</b>	<b>Course Code</b>	<b>Year of Offering</b>	<b>Name of the Student studied course on experimental learning through project work/field work/internships</b>	<b>Marks</b>	<b>Title of the project</b>
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Himangshu Borgohain	29	Estimation of Vitamin C in citrus fruits by titration method
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Priyankhu Protim Handique	30	Study on different water samples of Simaluguri area, Sivasagar , Assam
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Bornali Panging	29	Study on Digestion of starch by salivary amylase and effect of temperature & pH on it
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Hemonta Gogoi	30	Quantitative analysis of casein from a milk sample
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Dhrubajyoti Saikia	28	Determination of ion present in toothpaste
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Deepanka Phukan	28	Determination of ion present in toothpaste

B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Anurag Buragohain	28	Determination of concentration of paracetamol
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Rini Dutta	31	Extraction of caffeine from different tea samples
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Sukharthi Chetia	29	Insecticides or Pesticides (nitrogen containing) in various fruits & vegetables
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Jaan Sharma	31	Extraction of nicotine sulphate from sample of cigarettes
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Indranil Changmai	29	Preparation & swelling studies of pH sensitive hydrogel
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Hunmoina Phukan	31	Isolation of casein from milk
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Rituparna Phukan	31	Comparison of concentration of citric acid present in various fruit juices
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Mousumi Boruah	28	Chemical Analysis of the surface water of Dhubapukhuri pond

B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Pronami Gogoi	29	Preparation & swelling studies of pH sensitive hydrogel
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Bittu Kumar Sha	30	Determination of iron in folic acid by spectroscopy method
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Gouranga Boruah	29	Study on different water sample of Bhatiapar area, Sivasagar, Assam
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Bhaskar Thamuli	28	Extraction of Caffeine Concentration in Various Tea Samples
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Mayukhjit Rajkonwar	30	Extraction of Caffeine Concentration in Various Tea Samples
B.Sc 6th Sem Chemistry Major		B.Sc. 6th Sem Project Work	MM 608	2020	Abhinob Lahon	31	Extraction of nicotine sulphate from sample of cigarettes

**DIBRUGARH UNIVERSITY**

**Course of Study and Scheme of Examination for  
B.Sc. [Non Major (NM)] Chemistry  
under Semester programme**

Semester	Paper No.	Title	Marks	
Semester-I	NM 101	General Chemistry I	34 (27+7 Int.)	100
		Inorganic	34 (27+7 Int.)	
		Organic Physical	32 (26+6 Int.)	
Semester-II	NM 201	Inorganic Chemistry-I	60 (48+12 Int.)	100
	NM 202	Inorganic Lab	40 (32+8 Int.)	
Semester-III	NM 301	Organic Chemistry-I	60 (48+12 Int.)	100
	NM 302	Organic Lab	40 (32+8 Int.)	
Semester-IV	NM 401	Physical Chemistry I	60 (48+12 Int.)	100
	NM 402	Physical Lab	40 (32+8 Int.)	
Semester-V	NM 501	Physical Chemistry-II	40 (32+8 Int.)	100
		Inorganic Chemistry-II	40 (32+8 Int.)	
		Inorganic Lab	20 (16+4 Int.)	
Semester-VI	NM 601	Organic Chemistry-II	40 (32+8 Int.)	100
		Organic Lab	25 (20+5 Int.)	
		Physical Lab	25 (20+5 Int.)	
		Inorganic Lab	10 (8+2 Int.)	

**Int. = Internal Assessment**

**Duration of Examination (Theory) – 2 hours per paper for total marks below 50 and 3 hours per paper for total marks above 50**

**Duration of Examination (Practical) - 6 hours per paper.**

**Paper: MM 608**

**Project Work**

**Marks 40 (32+8Int)**

In the final semester (Semester VI), students have to carry out project work either at their respective colleges or any other R. & D laboratory and University (private, public and govt.) under guidance of a faculty member. The student may start their project work during the Semester break between 5a and 6a semester.

(Some laboratory work related to Project Work may also be performed during the Semester break between 4a and 5a Semester, if the situation related the lab facility demands).

The area of the 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. **Marks 22**

**Viva voce Marks 10**

**Internal assessment Marks 8**

**Additional Recommended Books**

**GARGAON COLLEGE**  
(Re-accredited 'B' Grade by NAAC)  
SIMALUGURI-785686  
District: Sivasagar, Assam, India

PHONE:03772252251,03772285588  
FAX:03772252251

**CERTIFICATE**

This is to certify that the project work entitled, "*Estimation of vitamin c in citrus fruits by titration method*" Submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by **Himangshu Borgohain** 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: 31/10/20

  
(Dr. Anna Gogoi)

HOD, Department of Chemistry,  
Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri



## **GARGAON COLLEGE**

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SIMALUGURI-785686 03772285588

District : Sivasagar, Assam, India Fax: 03772252251

### CERTIFICATE

This is to certify that the project work entitled "Study on different water samples of Simaluguri Area, Sivasagar (Assam)" submitted to the Department of Chemistry, Gargaon college is a record of project work carried out by PRIYANKHU PROTIM HANDIQUE. The project meets all the requirements of B.Sc. project.

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

Place: Gargaon College

Date : 31 | 10 | 20

(Dr. ANNA GOGOI)

HOD, Department of Chemistry,

Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri

**STUDY ON  
DIGESTION OF STRACH BY  
SALIVARY AMYLASE AND EFFECT  
OF TEMPERATURE AND pH ON IT**

(A Porject Report Submitted To The Department Of  
Chemistry, Gargaon College, Siamluguri  
Affiliated to Dibrugarh University)



**Submitted By  
BORNALI PANGING  
B.Sc. 6TH Semester  
Paper Code – 608  
Roll No – 13420167  
Department Of Chemistry  
2020**



**GARGAON COLLEGE** Phone: 03772252251

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Simaluguri-785686 Fax: 03772252251

District: Sivasagar, Assam, India

**CERTIFICATE**

This is certified that the project work entitled "*Quantitative analysis of casein from a milk sample*" submitted to the department of chemistry, Gargaon college is a record of project work carried out by **Hemonta Gogoi**. The project meets the all requirements of B.sc project.

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

Place: Gargaon

Date: 21/10/22

(Dr. Anna Gogoi)

HOD, Department of chemistry

Gargaon college  
Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri





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SIMALUGURI-785686 03772285500  
District : Sivasagar, Assam, India Fax: 03772252251

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**CERTIFICATE**

This is to certify that the project work entitled "Determination of Ions Present in Toothpaste" submitted to the Department of Chemistry, Gargaon college is a record of project work carried out by DHRUBAJYOTI SAIKIA . The project meets all the requirements 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

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri



## **GARGAON COLLEGE**

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SIMALUGURI-785686 03772285588

District : Sivasagar, Assam, India Fax: 03772252251

### CERTIFICATE

This is to certify that the project work entitled "Determination of Ions Present in Toothpaste" submitted to the Department of Chemistry, Gargaon college is a record of project work carried out by DEEPANKA PHUKAN. The project meets all the requirements of B.Sc. project.

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

Place: Gargaon

Date: 29/10/2020

(Dr. ANNA GOGOI)

HOD, Department of Chemistry,

Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri

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

---

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

### **Certificate**

**This is to certify that the Project Work entitled "Determination of Concentration of Paracetamol"** submitted by **ANURAG BURAGOHAIN** to Department of Chemistry, Gargaon College, Simaluguri, Affiliated to **Dibrugarh University**, for the partial fulfillment of the B.Sc. degree during the period of his study is a original work carried out by the students under my guidance and this work has not been submitted for any purposes elsewhere.

**Place : Gargaon**  
**Date : 31/10/20**

  
**Signature of Guide**  
**( Dr. Anna Gogoi )**

*Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri*



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Fax: 03772252251

### CERTIFICATE

This is to certify that the project work entitled, "Extraction of caffeine from different tea samples" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by **Rini Dutta**, 6<sup>th</sup> Semester, major in Chemistry. The project meets all 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: 31/10/20

(Dr. Anna Gogoi)

HOD, Department of Chemistry,  
Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri



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SIMALUGURI-785686  
District: Sivasagar, Assam, India


Phone: 03772252251  
03772285588  
Fax: 03772252251

### CERTIFICATE

This is to certify that the project work entitled, "**Insecticides or Pesticides (Nitrogen Containing) in various Fruits and Vegetables**" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by **Sukharthi Chetia**, 6<sup>th</sup> Semester, and 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 30/10/20

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

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri

**GARGAON COLLEGE**

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03772285588

District: Sivasagar, Assam, India

Fax: 03772252251

**CERTIFICATE**

This is to certify that the project work entitled, "*Extraction of nicotine sulphate from sample of cigarette*" submitted to the Department of Chemistry, Gargaon college is a record of project work carried out by JAAN SHARMA. The project meets all the requirements of B.Sc. project.

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

Place: Gargaon College

Date: 31/10/20

  
(Dr. ANNA GOGOI)

HOD, Department of Chemistry,

Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri

**GARGAON COLLEGE**

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District: Sivasagar, Assam, India

Phone : 03772252251, 03772285588 . Fax : 03772252251

**CERTIFICATE**

This is certify that the project work entitled, "Preparation and Swelling studies pH sensitive Hydrogel, *Sivasagar (Assam)*" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by **Indranil 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: 31/05/20

  
(Dr. Anna Gogoi)

HOD, Department of chemistry

Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri



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03772285588

Simaluguri-785686

Fax: 03772252251

District: Sivasagar, Assam, India

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CERTIFICATE

This is certified that the project work entitled "**Isolation of casein from milk**" submitted to the department of chemistry, Gargaon college is a record of project work carried out by **Hunmoina Phukon**. The project meets the all requirements of B.sc project.

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

Place: Gargaon

Date: 31/10/20

(Dr. Anna Gogoi)

HOD, Department of chemistry

Gargaon college

*Head of the Department*  
Chemistry Department  
Gargaon College, Simaluguri



## GARGAON COLLEGE

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(Re-accredited 'B' Grade by UGC)

0577222258

SIMALUGURI-781686

Fax:0577222254

District Sivasagar, Assam, India

### CERTIFICATE

This is certify that the project work entitled "*Comparisons of concentration of citric acid present in various fruit juices*" submitted to the Department of Chemistry, Gargaon college is a record of project work carried out by Ritajyotsna Phakon.

The project meets all the requirements of B.Sc. project.

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

Place: Gargaon college

Date: 21/10/20

(Dr. Anna Goski)

HOD, Department of Chemistry  
Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri

**GARGAON COLLEGE**

Phone : 03771252251

(Re-accredited 'B' Grade By NAAC)

03771285588

SIMALUGURI-785686

Fax : 03772252251

District : Sivasagar , Assam , India

Scanned with CamScanner

## CERTIFICATE

This is to certify that the project work entitled , "Chemical analysis of surface water of Dhubapukhuri Pond" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by Mousumi Borush . 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 : 31/10/20  
Chemistry



(Dr. Anna Gogoi )

HOD ,Department of

Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri

**GARGAON COLLEGE**

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District: Sivasagar, Assam, India

Phone : 03772252251, 03772285588 . Fax : 03772252251

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**CERTIFICATE**

This is certify that the project work entitled, "Preparation and Swelling studies pH sensitive Hydrogel *Sivasagar (Assam)*" submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by **Pronami 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: 31/10/20



(Dr. Anna Gogoi)

HOD, Department of chemistry  
Gargaon College



Department of Chemistry  
Gargaon College, Simaluguri  
Sivasagar-7856586, Assam, India

Dr. Ranjit Dutta  
Assistant Professor, Dept. Of Chemistry

### Certificate

This is to certify that the Project Work entitled "*Determination of Iron in folic acid by spectroscopy method*" submitted by *Bittu Kumar Sha* to Department of Chemistry, Gargaon College, Simaluguri, Affiliated to Dibrugarh University, for the partial fulfilment of the B.Sc. degree during the period of his study is a original work carried out by the students under my guidance and this work has not been submitted for any purpose elsewhere.

Place: Gargaon

Signature of Guide

Date:

(Dr. Ranjit Dutta)



**STUDY ON DIFFERENT WATER SAMPLE OF  
BHATIAPAR AREA, SIVASAGAR, ASSAM**

A Project report Submitted To The Department Of Chemistry,  
Gargaon College, Simaluguri

(Affiliated to Dibrugarh University)

Submitted By- Gouranga Boruah

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

Paper Code - 608

Department- Chemistry

Roll No → 13420056

**EXTRACTION OF CAFFEINE CONTENTS IN  
VARIOUS TEA SAMPLES**

PROJECT REPORT SUBMITTED TO  
THE DEPARTMENT OF CHEMISTRY, GARGAON COLLEGE,  
SIMALUGURI  
AFFILIATED TO DIBRUGARH UNIVERSITY



SUBMITTED BY  
BHASKAR JYOTI TAMULI  
B.Sc 6<sup>th</sup> SEMESTER  
PAPER CODE: 608  
DEPARTMENT OF CHEMISTRY  
2020



**GARGAON COLLEGE**  
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**SIMALUGURI-785686**  
**District: Sivasagar, Assam, India**


PHONE:03772252251,  
03772285588  
FAX:03772252251

### CERTIFICATE

This is to certify that the project work entitled, "*Extraction of caffeine contents in different tea sample*" Submitted to the Department of Chemistry, Gargaon College is a record of project work carried out by *Mayukhjit Rajkonwar* 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:  
Date : *24/10/20*

  
(Dr. ANNA GOGOI)  
HOD, Department of Chemistry,  
Gargaon College

Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri

---

(Re-accredited 'B' Grade by NAAC)

Phone: 03772252251

SIMALUGURI-785686

03772285588

District : Sivasagar, Assam, India

Fax: 03772252251

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CERTIFICATE

This is to certify that the project work entitled "*Extraction of nicotine sulphate from samples of cigarette*" submitted to the Department of Chemistry, Gargaon college is a record of project work carried out by *ABHINAB LAHON*. The project meets all the requirements of B.Sc. project.

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

Place: Gargaon College

Date: 31/10/20

  
(Dr. ANNA GOGOI)

HOD, Department of Chemistry,

Gargaon College  
Head of the Department  
Chemistry Department  
Gargaon College, Simaluguri