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Department of Chemistry
N. N. Saikia College
Titabar-785630

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The Department at a Glance

Department of Chemistry is one of the oldest Science departments of Nanda Nath Saikia College started in 1971. The Department has been offering three years degree course in Chemistry (B.Sc.) with honours provision along with two certificate courses. Decorated by well-trained and extremely motivated faculties as well as bright students, the Department constantly strives to maintain a culture of excellence and uphold the highest standards in chemical education. The Department is housed with a research laboratory and two general laboratories. Along with teaching, the faculty members are actively engaged in research in the area of chemical sciences as well as interdisciplinary topics. Our alumni are well placed across the globe and have contributed significantly in their respective domains.

Academic Programmes

Undergraduate degree course (B.Sc.)

Nature: Semester system

Intake capacity: 30

List of Faculties



Dr. Partha Pratim Saikia

M.Sc., NET, PhD

Teaching expertise: Organic Chemistry



Mr. Dhrubajit Borah

M.Sc., NET

Teaching expertise: Inorganic Chemistry



Dr. Jayanta Madhab Borah

M.Sc., SLET, B.Ed., PhD

Teaching expertise: Physical Chemistry



Dr. Bhaskar Jyoti Saikia,

M.Sc., SLET, GATE, PhD

Teaching expertise: Physical Chemistry

Library

The department has a well-maintained library with reading room facility which has a collection of around 250 text and reference books.

Research Highlights

The Department of chemistry has been actively pursuing research activities in a number of research fields like coal chemistry, synthetic organic chemistry, material science, catalysis, polymer chemistry, surface chemistry etc. In spite of limited facilities and infrastructure, the Department has been dedicatedly engaged in different research-based works. So far, the Department has succeeded in securing research grants from UGC, DST, SERB and ministry of environmental science. The present areas of ongoing research are catalysis, material science and polymer chemistry.

Recently completed research project in the Department:

Sl. No	Name of the PI	Funding agency	Title of the Project	Duration	Total Grant
1.	Dr. Partha Pratim Saikia	DST	<i>In situ</i> generation of cyanide from novel non-toxic source: application in a few important C-C bond forming reaction and possible extension to the synthesis of bioactive natural products	2013-16	23,00,000/-

❖ Research Publications of the Faculties

1. Strategic formulation of grapheme oxide sheets for flexible monoliths and robust polymeric coatings embedded with durable bioinspired wettability A. Das, J. Deka, A. M. Rather, B. K. Bhunia, **Partha P. Saikia**, B. B. Mandal, K Raidongia, U. Manna ACS Applied Materials & Interface 2017, 9(48), 42354-65.
2. Effect of pH on the adsorption of methylene blue on clay material, **Dhrubajit Borah**, Bishnu J. Bordoloi, Rehnaz Wahid, Global Journal of Engineering Science and Research Management, 2017, 11, 4.
3. Designing of platinum free NiS anchored graphene/polyaniline nanocomposites based counter electrode for dye sensitised solar cell, Bikash C Nath, Kiran J Mohan, **Bhaskar J. Saikia**, Gazi A. Ahmed, Swapan Kumar Dolui, J. Mater. Sci: Mater Electron, 2017, 28, 1042-1050.

❖ Seminars/conferences participated by the faculties

1. **Dr. Partha Pratim Saikia** presented a paper on ‘Cyanation of aryl halide using potassium thiocyanate as cyanide source in aqueous medium’ in the national conference ‘Recent Trends in Environment Responsive Chemical Processes’ (RTERCP-2017) organized by Dept. of Chemistry, D.R. College, Golaghat during 22-23rd September, 2017.
2. **Dr. Jayanta Madhab Borah** presented a paper on ‘Removal of benzenetricarboxylic acids from aqueous medium: adsorption at Alumina/electrolyte interface’ in the national conference ‘Recent Trends in Environment Responsive Chemical Processes’ (RTERCP-2017) organized by Dept. of Chemistry, D.R. College, Golaghat during 22-23rd September, 2017.
3. **Dr. Bhaskar Jyoti Saikia** presented a paper on ‘Development of an azide–alkyne cycloaddition based self-healing polymeric system via semiencapsulation method’ in the national conference ‘Recent Trends in Environment Responsive Chemical Processes’ (RTERCP-2017) organized by Dept. of Chemistry, D.R. College, Golaghat during 22-23rd September, 2017.

❖ Refresher course attended by the faculty

- **Mr. Dhurbajit Borah** attended a *Refresher Course in Material Science* organized by Hyderabad University, Hyderabad during 4th to 24th August, 2017.

❖ Awards achieved by faculty

- **Dr. Bhaskar Jyoti Saikia** was awarded the ‘7th National Awards for Technology Innovation in Petrochemicals & Downstream Plastics Processing Industry (2016-17)’ conferred by Central Institute of Plastics Engineering & Technology (CIPET) Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Government of India.

❖ Seminars organized in the Department

- Dr. Prasanta Jyoti Gautam, HoD, Department of Chemistry, Kaziranga University delivered a lecture on *Symmetry and group theory* on 3rd March, 2017.

B. Sc. Result (2017) - Appeared:12

Passed: 10 (83.3%)

First class holders

Sl. No.	Name of the student	Percentage
1	Utpal Dutta	79.50
2	Raju Chouhan	75.36
3	Mrinmoy Jyoti Hazarika	73.71
4	Purnima Singpho	67.71
5	Rehnaz Wahid	67.07
6	Arnika Gogoi	65.71
7	Anirudha Dev Borah	63.00

Students' Progression

1. Utpal Dutta got selected in Rajiv Gandhi University, Arunachal Pradesh for pursuing M.Sc.
2. Raju Chouhan got selected in Tezpur University, Assam for pursuing M.Sc.

Placement of Students

1. Mrinmoy Jyoti Hazarika is selected as assistant teacher under DEE, Govt. of Assam.
2. Budhin Hazarika got a placement in TCS.