



# THE GEOSAVVY

(YEAR COVERS 2020 TO 2024)

The Newsletter of the Department of Geology, Jagannath Barooah College, Jorhat, India  
Upgraded to Jagannath Barooah University under Assam Act No. LXVI of 2023



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## ABOUT THE DEPARTMENT

The Department of Geology, Jagannath Barooah College was constituted in 1977. Two academic members were involved in the department's founding: S.K. Bhagawati and Mukut Bora, the department's founder head. Later, in 1981, the department began offering geology classes in higher secondary education. The department began offering a full-fledged B.Sc. major in geology in 1984. The department currently provides a B.Sc. (Honors) in Geology academic program. The department's main goal is to comprehend the basic ideas behind Earth and planetary systems. Its B.Sc. program accepts roughly 40 students a year. There are now five faculty members and one office staff member in the department. It can conduct its teaching-learning activities in a large number of contemporary classrooms and laboratories. A respectable assortment of books and magazines can be found in the departmental library.

In addition, the faculty members of the department carry out research in diverse fields. To obtain a better knowledge of the subject, the faculty of the department planned a Field School as part of a Skill Enhancement Course.



## PROUD MOMENTS

Significant recent achievements accomplished by the department are outlined here.

Six students from the Department of Geology, Jagannath Barooah College, got selection for INDIA-USA student exchange event under US NSF-funded collaborative project, Duration 36 month (Co-PI:- Dr. Raghupratim Rakshit). These student will visit Georgia Institute of Technology, USA in next academic session.



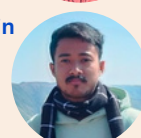
**Ms. Snigdha Dutta**  
(Fully Funded)  
UG 4th Semester  
Batch: 2022-2025



**Mr. Debashis Borah**  
UG 4th Semester  
Batch: 2022-2025



**Ms. Parishita Buragohain**  
(Fully Funded)  
UG 4th Semester  
Batch: 2022-2025



**Mr. Bhargav Gogoi**  
UG 4th Semester  
Batch: 2022-2025



**Mr. Binud Gogoi**  
(Fully Funded)  
UG 4th Semester  
Batch: 2022-2025



**Ms. Boinya Gogoi**  
UG 4th Semester  
Batch: 2022-2025

Two students have cleared Joint Entrance Examination (JAM), 2023 with remarkable AIR.



**Mr. Rituraj Dutta**  
AIR: 25  
Batch: 2021-2024



**Ms. Susmita Karmakar**  
AIR: 87  
Batch: 2021-2024



Dr. Raktim Ranjan Saikia, Assistant Professor have been awarded "Jorhat Literature Award-2024" for his significant book contribution "Economic History of Pre-colonial Assam"

## OUR STRENGTH

### PAST FACULTY MEMBERS



**Mukut Bora, M.Sc.**  
Founder Head  
Tenure 1978-1984

He completed his M.Sc. from Gauhati University and worked as a Lecturer at Arya Vidyapeeth College before becoming Head of the Geology Department at J.B. College in 1977. After six years in service, he started working as an ESC in Rangia, Assam.

He completed his M.Sc. in Geological Science from Gauhati University, Gauhati. He began his service at J.B. College as Lecturer in 1984 and superannuated from the institute in 2016.



**S. K. Bhagaboti, M.Sc.**  
D.P.Tech.  
Tenure: 1983-2016

She joined in 1984 and retired in 2016. She obtained her M.Sc. from Gauhati University and Ph.D. from IIT Bombay. Her research interests lie in Economic Geology. During her tenure of service, she completed a UGC sponsored project and published five research papers.



**Deepa Bora, M.Sc.**  
Ph.D.  
Tenure: 1984-2016

He completed his M.Sc. from Gauhati University and worked as a Lecturer at J.B. College in 1985. Later, in 1992 he joined in Assam Civil Service.



**Pradip Das, M.Sc.**  
Tenure: 1985-1990



**Dianuddin Ahmed, M.Sc.**  
Tenure: 1984-1985

He completed his master's from Gauhati University in the Geological Science department. He began his career as a research fellow at Gauhati University and joined J.B. College as a Lecturer in April 1988. In December 1988, he joined ONGC as a Geologist.



**Mir Alam Borah, M.Sc.**  
Tenure: 1988



**Madhurjya Chakrabarti,**  
M. Tech, Ph.D.  
Tenure: 1987-1989

He earned his M.Tech. from the Department of Applied Geology, Dibrugarh University, and his Ph.D. from Gauhati University in Geomorphology. Prior to joining in J.B. College in 1987, he was a project assistant at RRL (NEIST), Jorhat. Later, he joined as a Lecturer at Cotton College.

He completed his M.Tech. from Dibrugarh University in the Applied Geology department. He began his career at J.B. College in 1989 as a Lecturer and retired from his service in 2020.



**Rajib Sarma, M.Tech.**  
Tenure: 1989-2020



**Tapos Goswami,**  
M.Sc. Ph.D.  
Tenure: 1993-2008

He earned his M.Sc. and Ph.D. from the Department of Geological Sciences, Gauhati University in Structural Geology. He worked in J.B. College as Lecturer from May, 1993 to August, 2008. Later, he joined as an Assistant Professor at Dibrugarh University.

### PRESENT FACULTY STRENGTH



**Nurul Amin**  
M.Sc., Ph.D.  
Associate Professor & Head

He acquired his Master's and Ph.D. degrees from Dibrugarh University before starting his career at J.B. College in 1989. He successfully completed six research projects. His research focuses on geomorphology, and he successfully supervised two Ph.D. students at Dibrugarh University.



**Raktim Ranjan Saikia**  
M. Sc., Ph.D.  
Assistant Professor

He completed his Master's and Ph.D. from Gauhati University. He began his work in the oil industry transitioning to academia in 2011. He has completed three research projects, and one in collaboration. Now, his study emphasis on geoarchaeology.



**Sorat Konwar**  
M.Sc.  
Assistant Professor

He obtained his Master's degree in geological sciences from Gauhati University. He joined Department of Geology, J.B. College in November 2017. His current research focuses on Quaternary Geology, on which he is pursuing Ph. D. from Gauhati University, Assam.



**Chaitra Dhar Taye**  
M.Sc., Ph.D.  
Assistant Professor

He completed both his Master's and Ph.D. degrees from Dibrugarh University. He joined J.B. College in September 2019. He worked on coal exploration and four hydropower projects in NE-India. His research interests include igneous petrology and geochemistry.



**Raghupratim Rakshit**  
M.Sc., Ph.D.  
Assistant Professor

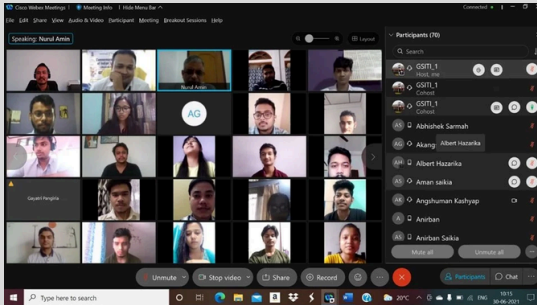
He earned his Master's degree in Applied Geology from Dibrugarh University, where he is also conferred with Ph.D. degree. Prior joining the institute in September, 2022 he worked in PUC, Mizoram University. His research focuses on geomorphology, and geohazard

# EVENTS AND ACTIVITIES

June 30, 2021

## Students interaction programme under 'Bharat Ka Amrut Mahotsava'

The GSI Training Institute in Shillong, in collaboration with the Department of Geology at Jagannath Barooah (Autonomous) College, Jorhat, organized an interaction program titled 'Future of Geoscience', as part of the 'Bharat Ka Amrut Mahotsava' celebrations. The event, conducted via the Webex platform, featured Dr. Bashab Nandan Mahanta, Director of the GSI Training Institute, Shillong, and Dr. N Surdas Singh, Senior Geologist of GSI.



October 20, 2021

Geological Survey of India, NER, Shillong, presented a batch of rock hand specimens to the Department of Geology, J. B. College (Autonomous) in the presence of Principal Dr. Bimal Barah, as a part of the academia interaction program and commemoration of 75 years of independence of Government of India through the "Bharat ka Amrut Mahotsava" with a theme of "Atmanirbhar Bharat".



December 14, 2022

## International Interaction Session on Recent Advances in Research Methodology and Studies in Earth Sciences and their applicability in NE India (RARMSES-NE INDIA 1.0)



The Department of Geology and Geological Forum of Jagannath Barooah College (Autonomous) organized the 1st Recent Advances in Research Methodology and Studies in Earth Sciences and their applicability in NE India. This one-day international interaction session featured three distinguished professors from the United States: Dr. Paul M. Betka from George Mason University, Dr. Karl A. Lang from Georgia Institute of Technology, and Dr. Ryan Sincavage from Radford University.



## EVENTS AND ACTIVITIES

March 27, 2023

**Student interaction programme**

The Department of Geology and Geological Forum of Jagannath Barooah College (Autonomous) organized the 2nd Recent Advances in Research Methodology and Studies in Earth Sciences and their applicability in NE India in physical mode. This one-day international interaction session featured by Prof. Michael D. Blum, Scott and Carol Ritchie Distinguished Professor and Director of Graduate Studies at the Earth, Energy, and Environment Center, University of Kansas, USA.

He addresses fundamental concepts such as Historical Changes and Sediment-Routing Systems. He also highlights the significance of U-Pb zircon dating and shares insights from his latest project on the Himalaya to Bengal Fan Source to Sink (S2S System) relationship, illustrating connections between tectonics and climate in sediment dispersal.



April 3, 2023

**Geologist Day, 2023**

The Department of Geology, Jagannath Barooah College in association with Geological Forum have organised an interactive talk session to commemorate the Geologists Day on 3rd April, 2023. The two invited guests, Dr. Deepa Bora and Mr. Rajib Sarmah, former faculties of the Department, have graced the occasion.



August 14, 2023

**Inter Departmental Drawing Competition**

On the eve of the nation's 77th Independence Day, August 14, 2023, the Geological Forum, Department of Geology, Jagannath Barooah College, Jorhat, organised an inter-departmental drawing competition. Mr. Parvez Nawaz (UG 1st Sem) of the Department of Economics and Ms. Nandita Deb (UG 5th Sem) of the Department of Mathematics won the first and second prizes in the competition, respectively. Mr. Kuldeep Saikia, a well-known young artist, judged the competition.

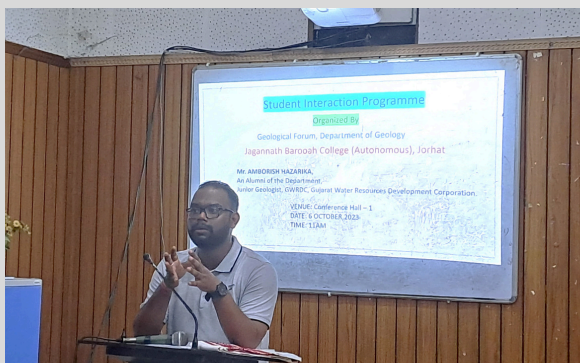


## EVENTS AND ACTIVITIES

October 6 &amp; 7, 2023

## Student Interaction Programme

The Geological Forum of the Department of Geology, J.B. College (Autonomous) have organised student interaction programme on October 6th and 7th, 2023 at the Conference Hall-1 of Jagannath Barooah College (Autonomous), Jorhat. On 6th October, at 11 a.m., Mr. Amborish Hazarika (an alumni of the department, 2015-18), presently working as Junior-Geologist, GWRDC - Gujarat Water Resources Development Corporation, shared his experience and present-day scenario of geological scopes, challenges with the students.



On 7th October, at 11 AM, Ms. Meghna Kaushik, Career Counsellor and Soft Skill Trainer, briefly highlighted the various carrier opportunities of soft skills and how to develop soft skill were discussed.



March 1 to 7, 2024

## Celebrating International Geomorphology Week



March 1–7, 2024, the department celebrated International Geomorphology Week. The objectives were to mobilize the student community and advance geomorphology in all of its manifestations. Dr. Nurul Amin, head of the Geology Department delivered the speech in the importance of understanding geomorphological aspects in the historical and present-day context. Several inter- and intra- departmental events and competitions were organized in this week celebrating International Geomorphology Week with a geomorphology theme. Model making and demonstration competition among the departmental students of both Major and Minor courses (under FYUGP-NEP) was one of the key event. In Major group, best model was awarded to Sonakshi Bordoloi, Sunakshi Gogoi, Ankita Paul and Pranjal Sarmah and best model with demonstration to Basundhara Das, Promit Niloy Chaliha, Emy Sarmah and Priyanka Bora. Arindam Tamuli, Anup Kumar Narah, Kajol Goswami, Rishita Bora and Sneha Paul of Minor group won the best model.

An inter-departmental essay competition was also organized as a part of the Dr. Milan Rakshit memorial geological forum event. The theme was Role of Earth Sciences in the Society. The winner of the event was Murchana Bora (UG 2nd Semester, Dept. of Political Science), Abinash Borah (UG 4th Semester, Dept. of Assamese) and Bhargav Nath (UG 2nd Semester, Dept. of Electronics).

## EVENTS AND ACTIVITIES

March 27 to 29, 2024

### International Symposium and Workshop (RARMSES-NE INDIA 3.0)

The aforementioned triduum programme is a series of India-USA collaborative practices encompassing the three institutes viz., Jagannath Barooah College (India), Georgia Institute of Technology (U.S.A) and Western Washington University (USA). The comprehensive programme covers recent advancements in methodological, technological, and theoretical domains of Geology, as well as their application in the Northeast Indian region. The event was organized by Department of Geology, Jagannath Barooah College and sponsored by National Science Foundation, U.S.A and Jagannath Barooah College, India in association with Western Washington University & Georgia Institute of Technology of U.S.A. The resource persons for the event were Dr. Paul Betka, Assistant Professor, Western Washington University, USA and Dr. Aislin Reynolds, President's Postdoctoral Fellow, Georgia Institute of Technology, USA. The highlight of the inaugural event was the award distribution of the INDIA-USA International Student-Exchange program. Dr. Betka gave his talk on his research work in the Indo-Burma ranges and Naga-Schuppen Belt. Dr. Reynolds shares her experience from her PhD work on U-Pb zircon thermochronology and its use in delineating the Southern Tibet normal fault zones. Dr.s Betka and Reynolds also take care of the hands-on training session on Structural Geology and Tectonics for two consecutive days. On the final day, the participants got the chance to learn field based knowledges from the resource persons in the one-day field school along Merapani-Wokha road section. The participants and students received certificates too. Mr. Thomas Urbina, M.S student in the Western Washington University also participated in the event as part of the student exchange program.



# FIELD SCHOOLS

February, 2020

**Meghalaya,  
09th February to 15th February 2020**



September, 2021

**Ledo-Tipangpani, Margherita  
21st September 2021**



April, 2022

**Meghalaya,  
21th March to 27th March 2022**



March, 2023

**Arunachal Pradesh  
2nd March to 4th March 2023**



February, 2024

**Meghalaya  
22nd February to 27th February 2024**



March, 2024

**Merapani-Doyang Road (Wokha Road) section  
29th March 2024**



# PARENT TEACHERS MEET AND MENTORING

**June 6, 2022**



The parent-teachers meet of 2021-2022 session of department of Geology, Jagannath Barooah College, Jorhat held on 06 June, 2022. The meeting was presided by Dr Nurul Amin, Head of the Department, at seminar hall of J.B. College. A fruitful interaction with the parents was made and discussed about how to strengthen the bonding among teachers and students. He highlighted the significance of credit in the CBCS system. In the meeting, parents had a productive conversation and talked about various issues they were concerned about. Some parents expressed their concerns on different issues which were addressed by the faculty members.

**August 26, 2023**



The Department of Geology, Jagannath Barooah College (Autonomous), Jorhat, hosted a parent-teacher meeting on August 26th, 2023, at the Seminar Hall of the college. Dr. Nurul Amin, Head of the Department, presided over the meeting, which was attended by around 20 parents from different batches. He briefly outlined the credit system as well as the structure of the 2020 NEP (National Education Policy). All the assigned mentors shared their thoughts during the meeting, where Dr. Amin highlighted its significance. The meeting facilitated a productive conversation, during which parents discussed various issues they were concerned about.

**March 27, 2023**

As guests, the parents and guardians of the India-US Student Exchange recipients also attended the event. They were delighted to be part of the award ceremony, which was held on the first day of the triduum international symposium and workshop. They also expressed their gratitude to the distinguished attendees, participants, and guests present. This moment was captured in a photograph during the meeting between the recipients, vice principal, and resource persons.





## RESEARCH AND DEVELOPMENT ACTIVITIES

### Major Thrust Areas:

The major focus areas are Basin Analysis, Geoarcheology, Geochemistry, Geochronology, Geomorphology, Geohazards, Quaternary Geology and Tectonics. The department published 18 (eighteen) numbers of research papers in various national and international journals indexed with Scopus, Web of Science etc.

### 2024

Saikia, R. R., Taye, C. D., Amin, N., & Konwar, S., 2024. Physico-chemical parameters of traditional salt producing springs of Ancient Assam, Northeast India. *Indian Journal of Traditional Knowledge*, Vol-23 (2), 119-127.

<https://doi.org/10.56042/ijtk.v23i2.3161>

### 2023

Bordoloi, A., Chutia, A., & Taye, C. D., 2023. Reservoir characterization and rock eval pyrolysis of clastic sedimentary rocks in the Geku Formation, Arunachal Pradesh, North-eastern India. *Journal of The Indian Association of Sedimentologists*, Vol-40(I), 43-54.

<https://doi.org/10.51710/jias.v40i1.284>

Raktim Ranjan Saikia., and Kishor Goswami., 2023. Technology in Historical Study: Iron Culture and History of Assam, in book *Atavika-A Dialouge Between Present and Past*, Volume 2. Edited by P. k. Dandasena and Gitanjali Routa, Published by B. R. Publishing Corporation, New Delhi, ISBN- 9789391123185.

Raktim Ranjan Saikia., 2023. *ৰাজনৈতিক চিহ্নৰ পৰা উপাস্য দেৱতালৈ চোমদেউৰ পৰিক্ৰমা*, ডঃ গিৰিন ফুকন সম্পাদিত “টাই ভাষা সাহিত্যৰ জিলিঙণি”, DVS Publishers, H B Road, Panbazar, Guwahati-781001, ISBN-978-93-85839-80-1

### 2022

Kishor Goswami and Raktim Ranjan Saikia., 2022. The Making of Jorhat: Understanding the Patterns of Migraton and Settlement (2500 BC to 1947 AD), *Journal of Politics*, Vol. XXI, pp. 219-236.

Chutia, A., Gogoi, M. P., Taye, C. D., and Bordoloi, A., 2022. Petrography and clay mineral study of Siwalik Group, East Siang District, Arunachal Pradesh: Implications for tectonic setting and depositional environment. *Indian Journal of Geosciences*, Vol-76 (4), 37-50, eISSN: 2582-3485.

Bordoloi, A, Chutia, A., Taye, C. D. and Gogoi, M. P., 2022. Petrography and geochemistry of Palaeogene sandstones of Geku Formation, Yinkiong Group, Arunachal Pradesh, NE India: implications on provenance and tectonic setting. *Journal of Sedimentary Environments*. *Journal of Sedimentary Environments*, Vol-7 (4), 691-709, ISSN: 2662-5571, <https://doi.org/10.1007/s43217-022-00116-4>

## RESEARCH AND DEVELOPMENT ACTIVITIES

### 2021

Goswami, K., Saikia, R. R. and Gogoi, M., 2021. The Tradition of Manuscript Writing and the Development of Libraries in Pre-Colonial Assam. *Library Philosophy and Practice* (e-journal). 5985. <https://digitalcommons.unl.edu/libphilprac/5985>

Saikia, R. R. and Goswami, K. 2021. Technology in historical study: Iron culture and History of Assam. *Academia Letters*, Article 1332. <https://doi.org/10.20935/AL1332>

Taye, C. D., 2021. The Rock Cumulates of Siang Valley, Arunachal Pradesh, Northeast India: Representing an Ophiolitic Signature. In. Rao, B.V. (Ed), "Recent Trends in Earth Science Research in North East India", South eastern book agencies, Nagaland University, India, 204-228, ISBN: 978-93-89262-08-7.

Rakshit, R. and Taye, C. D., 2021. Morphotectonic Aspects and Their Relationship with Vulnerable Features in and Around SeLa Synclinorium, Western Arunachal Pradesh, Northeast India. In. Rao, B.V. (Ed), "Recent Trends in Earth Science Research in North East India", South eastern book agencies, Nagaland University, India, 335-348, ISBN: 978-93-89262-08-7.

Jaiswal, M. K., and Amin, N., 2021. Impact of land use land cover dynamics on runoff in Panchnoi River Basin, North East India. *GeoScape*. Vol-15(1), 19-29, doi: 10.2478/geosc-2021-0002

Raktim Ranjan Saikia., 2021. Economics of Ancient Pragjyotish-Kamarupa (In Assamese), *Aitihya, The Heritage*, XII (1), pp.155-177.

### 2020

Chutia, A., Taye, C. D., Daimari, J. and Chutia, D., 2020. Petrography and Clay Mineralogical Study of the Siwalik Group of Rocks Exposed along Pasighat-Mariyang Road Section, East Siang District, Arunachal Pradesh, Northeast India. *Journal of Geological Society of India*, Vol-95 (3), 263-272, ISSN: 0016-7622, 10.1007/s12594-020-1424-1

Jaiswal, M. K., and Amin, N., 2020. The impact of land use dynamics on the soil erosion in the Panchnoi River Basin, Northeast India. *J. Geogr. Inst. Cvijic*. Vol-70 (1), 1-14, [doi.org/10.2298/IJGI2001001J](https://doi.org/10.2298/IJGI2001001J)

### 2019

Chutia, A., Taye, C. D., Nath, D., and Chutia, D., 2019. Provenance of the Yinkiong Group exposed along Pasighat-Mariyang Road section, East Siang District, Arunachal Pradesh: A petrographic, heavy mineral and clay mineralogical approach. *Indian Journal of Geosciences*, Vol-73 (4), 253-264, eISSN: 2582-3485.

Raktim Ranjan Saikia, and Nurul Amin, A Study on the Salt Production of Ancient Assam. *Indian Journal of History of Science*, Vol-54(4), e-ISSN: 2454-9991, P-ISSN 0019-5235.

## RESEARCH AND DEVELOPMENT ACTIVITIES

The Department of Geology is actively engaged in research and development activities. Since 1995, the department has completed 10 national agencies funded research projects and five projects including one international collaborative projects are going on.

Sl No	Project Title	Funding Agency	Investigators	Duration
1	Geomorphological Study of the Dikhow River Basin, India	Minor/UGC	Dr Nurul Amin	1995-97
2	Structure and Metamorphism of Precambrian Rocks around Sumer-Naya Bunglow area of Meghalaya	Minor/UGC	Dr Tapos Kumar Goswami	1996-98
3	A study on the changing geomorphology of the Kalang River Basin	Minor/UGC	Dr Nurul Amin	2005-07
4	Geochemical and Rb-Sr Isotopic signature on lithounits of Lohit Plutonic Complex, Mishimi Hills	Major/DST	Dr Tapos Kumar Goswami	2006-09
5	Studies on the Sedimentological and Engineering properties of Shallow Subsurface sediments of Dibrugarh and Tinsukia Distict of Assam	Major/DST	Dr Nurul Amin	2007-11
6	A Study on river channel modification of Jorhat District of Assam.	INSA	Dr Raktim Ranjan Saikia Co-PI: Dr Nurul Amin	2013-15
7	Ore Petrological and Geochemical Studies of the Iron Ore Formation of Khasi Hills, Meghalaya	Minor/UGC	Dr Deepa Bora	2014-16
8	Geo archaeological Study of Doyang Valley	Collaboration with Wadia Institute of Himalayan Geology	Dr Raktim Ranjan Saikia	2016-18
9	A Study on Salt Production in ancient Assam	INSA	Dr Raktim Ranjan Saikia Co-PI: Dr Nurul Amin	2017-19
10	Mineral Chemistry and Petrography of the Mafic Igneous Rocks of Abor Volcanics, Arunachal Pradesh, NE India: Implications for Magmatic Processes and Tectonic Setting	RSMS, Jagannath Barooah College, Jorhat	Dr Chaitra Dhar Taye	2020-22
11	Provenance (i.e., origin and source) and depositional history of sediments of Brahmaputra basin	Collaboration with Dibrugarh University	Co-PI: Dr Chaitra Dhar Taye	2022 to present
12	A Study on the Paleo-channels of Dihing River and its impact on the Pre-Ahom Inhabitant of Upper Assam	INSA	Dr Raktim Ranjan Saikia Co-PI: Dr Nurul Amin, Sorat Konwar	2022 to present
13	Provenance and depositional environment of Yinkiong Group of Eastern Himalayas, Arunachal Pradesh and its relationship with Abor volcanics, with special emphasis on chemostratigraphy and economic prospects	SERB-SURE	Co-PI: Dr Chaitra Dhar Taye	2023 to present
14	The impact of Exhumation and Denudation rates in Channel Morphology and the Challenges in Developing a Resilient Society Around Assam-Mishimi-Northern Indo-Burma Ranges (Naga Hills)	SERB-DST	Dr Raghupratim Rakshit	2023 to Present

## COLLABORATIONS

### Departmental Thrust Areas:

The major focus areas are Basin Analysis, Geomorphology, Geoarcheology, Geochemistry, Geochronology, Geomorphology, Geohazards, Quaternary Geology and Tectonics. The department collaborates with ten national and ten international research and academic institutes located across three continents.



**NEIST**  
**JORHAT**



**IISc**  
**BENGALURU**



**WIHG**  
**DEHRADUN**



**ISR**  
**GANDHINAGAR**



**GSI NER-**  
**SHILLONG**



**DECCAN**  
**COLLEGE**  
**PUNE**



**COTTON**  
**UNIVERSITY**  
**GUWAHATI**



**DIBRUGARH**  
**UNIVERSITY**  
**DIBRUGARH**



**GAUHATI**  
**UNIVERSITY**  
**GUWAHATI**



**PACCHUNGA**  
**UNIVERSITY**  
**COLLEGE**  
**AIZAWL**



**NATIONAL**  
**UNIVERSITY**  
**SINGAPORE**  
**SINGAPORE**



**UNIVERSITY OF**  
**GLASGOW**  
**SCOTLAND,**  
**UK**



**UNIVERSITY OF**  
**MILAN**  
**MILAN,**  
**ITALY**



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**University**

**AUSTRALIAN**  
**NATIONAL**  
**UNIVERSITY**  
**CANBERRA,**  
**AUSTRALIA**



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**MEMPHIS,**  
**USA**



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**USA**



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**USA**



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**KANSAS**  
**KANSAS,**  
**USA**



**WESTERN**  
**WASHINGTON**  
**UNIVERSITY**  
**WASHINGTON,**  
**USA**



**UNIVERSITY OF**  
**NEVADA**  
**NEVADA,**  
**USA**

## @STUDENTS CORNER (ACTIVITIES AND ACHIEVEMENTS)

### ACHIEVEMENTS (INDIVIDUALS)

The students of department of geology actively participated in various event and activities in the college as well as outside the institute.



**Abhiraj Dutta**  
(2021-2024 Batch)

Year :2022

- First prize in article competition entitle "Rivers In Dr. Bhupan Hazarika's Song" organized by Srijanam.
- 2nd place in "B-section" of the online essay competition organized by ekajali xohai
- 1st place in all Assam article writing competition organised by Bishwanath Chariali on the occasion of world environment day
- 2nd place in article competition organised by Pragjyotish Prakash trust.
- 3rd place in the article competition organised by Ekajali Xohai on the occasion of national science day.
- 1st place in all Assam online speech competition.
- 2nd place in all Assam easy competition organized by Mamoni Foundation.
- 1st place in the essay competition organized by Lakhimpur college of commerce on the occasion of world environment day.
- 3rd place in essay writing competiton organized by Morongi college on the occasion of world environment day.
- Pinkul Dutta Memorial Award.
- 2nd place in all Assam based articles organized by Assam theory research institute.
- 1st place in essay writing competition organized by Ekajali on the occasion of Bishnu Rabha Day.
- 2nd place in the all Assam article on the occasion of golden jubilee of tingkhong college.
- 1st place in Pawan Das memorial all Assam essay competition organized byshivsagar college.
- Pallavi baruah memorial creation literature award.
- 1st place in the article competition of Dibrugarh university youth festival.
- 2nd place in the assamese quiz competition held at kotohabria budha namghar.
- 2nd place in open quiz organized by kamarbandha regional student's union.
- 2nd place in open quiz competition organized by Golaghat subdivision student's union on the celebration of all Assam Rabha Day.
- 1st place in the quiz competition on the occasion of krishnakanta handique's birthday at Chinamora College
- 2nd place in all Assam quiz competition held in azan village
- 3rd place in Bhuvan Chandra Bardoli memorial all Assam pen quiz competition
- 2nd place in the essay competition of Dibrugarh university youth festival
- 3rd place in an all-Assam open quiz the competition organized by "Ramdhenu Gai Jao jibonr Geet"
- 3rd position at assamese poem in college week.
- 2nd position at assamese song writing in college week.
- 3rd position at assamese poem manuscript in college week.
- 1st prize at humour writing in college week.



**Abhishek Sarmah**  
(2018-2021 Batch)

- Gold medal in inter Club MMA Championship, 2019 (75 kg)
- Gold medal in III All Assam Thai Boxing Championship (2021)



**Arindom Kaushik**  
(2020-2023 Batch)

- Runners up in the fittest JBIAN, 2021
- 3rd prize at athletics (200m) in college week, 2022
- 3rd prize at athletics (1500m)in college week, 2022
- Best bowler of the tournament in the 6th Assam premier club championship, 2023-24

**@STUDENTS CORNER (ACTIVITIES AND ACHIEVEMENTS)****ACHIEVEMENTS (INDIVIDUALS)**

**Arindam Saikia**  
(2020-2023 Batch)

- 1st position at Assamese slogan writing in college week, 2022
- 4th position at elocution in college week, 2022
- 2nd position at assamese poem recitation in college week, 2022
- 2nd position in All Assam Inter-Institutional Quiz Competition representing JB College held at Bokakhat, 2022
- 3rd position in Jorhat district Quiz Competition representing JB College in Bahona, 2022
- A member of the JB College team which won 2nd runners up tittle at All Assam Youth Parliament Competition at Duliajan, 2022
- 1st position in All Assam Open Quiz Competition held at Sarupathar, 2023
- Silver Medalist of DU Youth Festival representing JB College at Digboi, 2023



**Ashirwad Das**  
(2021-2024 Batch)

- 2nd prize in college week- power lifting, 2023



**Barbie Dutta**  
(2018-2021 Batch)

- Gold & silver medal in Jorhat District Karate Championship 2019.
- Two Bronze Medal in Under 21 state Karate Championship-2019.
- Silver medal in Inter College State Karate Championship 2019-20



**Biswajit Dutta**  
(2021-2024 Batch)

- Best supporting actor in college week, 2024



**Gyan Jyoti Bora**  
(2021-2024 Batch)

- 3rd position in college week- arm wrestiling, 2023
- Dance competition special award in college week, 2023



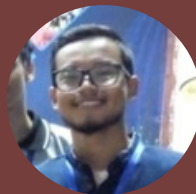
**Jagyatri Chutia**  
(2021-2024 Batch)

- 1st prize all Assam debate competition organized by Gauhati University law college.
- 1st prize at assamese one line story (magazine)in JB college week(2022-2023).
- 2nd prize all Assam debate competition organized by JDSG college.
- 1st prize at all Assam poem recitation organized by ASSU unit Golaghat.
- 2nd prize al inter college Poem recitation organized by ASSU unit Golaghat.
- 3rd prize in all Assam debate competition organized by Sarupathar College.
- 1st prize in all Assam debate competition organized by Furkating college .
- 2nd price at extempore speech, JB college week
- 1st prize at poem writing , JB college week
- 2nd prize at elocution , JB college week
- 3rd prize at debate competition , JB college week
- Best actress of JBU



**Jolly Bora**  
(2022-2025 Batch)

- 3rd position at English handwriting in college week, 2022



**Jyotinayan Panging**  
(2018-2021 Batch)

- Gold medal in debating competition in AAPG annual meet, 2019

**@STUDENTS CORNER (ACTIVITIES AND ACHIEVEMENTS)****ACHIEVEMENTS (INDIVIDUALS)**

**Kunal Lohar**  
(2022-2025 Batch)

- 3rd prize at guitar in college week, 2022 .



**Niharika Boruah**  
(2020-2023 Batch)

Year:2022-23

- 1st prize at English one line story (magazine)-college week
- 1st prize at English poem(magazine)-college week



**Piyush Dutta**  
(2018-2021 Batch)

- Gold medal in Arm Wrestling (80 Kg), 2019



**Preity Rani Das**  
(2020-2023 Batch)

- 2nd prize at photography in college week, 2022
- 3rd prize at Rangoli competition in college week, 2022



**Priyanka Sarmah**  
(2021-2024 Batch)

- 3rd price in college week –drawing competition, 2021
- 2nd prize in poster making competition organized by eco club of JB college on occasion of world Bio diversity day, 2022



**Priyam Shandilya**  
(2021-2024 Batch)

Year: 2022

- 1st prize at Ghazal in college week.
- 2nd prize at Jyoti Sangeet in college week.
- 1st prize at Lokogeet in college week.
- 3rd prize at Bhupendra Sangeet in college week,.

Year: 2023

- 2nd Best Singer,College week.
- 1st prize in Lokogeet,College week.
- 1st prize in Ghazal,College week.
- 2nd prize in Jyoti Sangeet,College week.
- 3rd prize in Bhupendra Sangeet,College week.
- 2nd prize in Bhupendra Sangeet Competition organised by Sanskritik Bikash Mancha,Jorhat.

Year: 2024

- 1st position in Group song competition,College week



**Priyanshu Bora**  
(2021-2024 Batch)

Year : 2021

- 1st prize in college week -Installation
- 3rd prize in college week-Dhol Badan
- 2nd prize in college week-Photography
- 1st Prize in the "Best out of Waste" National Level Competition (Group B), organized by NESCO in collaboration with JONONI, on the occasion of "Green Consumer Day"

Year : 2022

- 1st prize in college week- Photography

Year :2023

- 1st prize in college week –Installation
- 2nd price in college week –Photography
- Mega Bihu Event, Guinness Book World Record 2023 Participant
- 2nd prize raindrops intative assam-photography
- 3rd prize world photography day NDLI,K.K Handique ,JBC 2023-Photography.

**@STUDENTS CORNER (ACTIVITIES AND ACHIEVEMENTS)****ACHIEVEMENTS (INDIVIDUALS)**

Year:2023

- 3rd prize-NDLI ,K.K Handique,JBC 2023-slogan writing comprtition
- Digital poster making : 3rd prize in Red Ribbon Club Youth Festival 2023



**Ravi Shankar Das**  
(2022-2025 Batch)

- 1st position in college week powerlifting, 2022.
- Best lifter of jb college in powerlifting, 2023



**Sanskrita Das**  
(2021-2024 Batch)

Year:2022

- 1st prize in college week- installation

Year:2023

- 2nd prize in college week –biya nam competition
- 1st prize in college week group song
- 1st price in college week installation group
- 2nd prize in college week- makeup competition



**Sanchit Shyam**  
(2021-2024 Batch)

- 2nd prize in college week- spelling writing competition



**Shyamol Gogoi**  
(2019-2022 Batch)

- Gold medal (57 kg) in 16th Jorhat District Open Martial Arts Championship 2021
- Gold medal in Athletics (100m) in college week 2021
- Bronze medal in Athletics (400m) in college week 2021



**Sukanya Dutta**  
(2018-2021 Batch)

- Silver medal in poster competition in AAPG annual meet, 2019



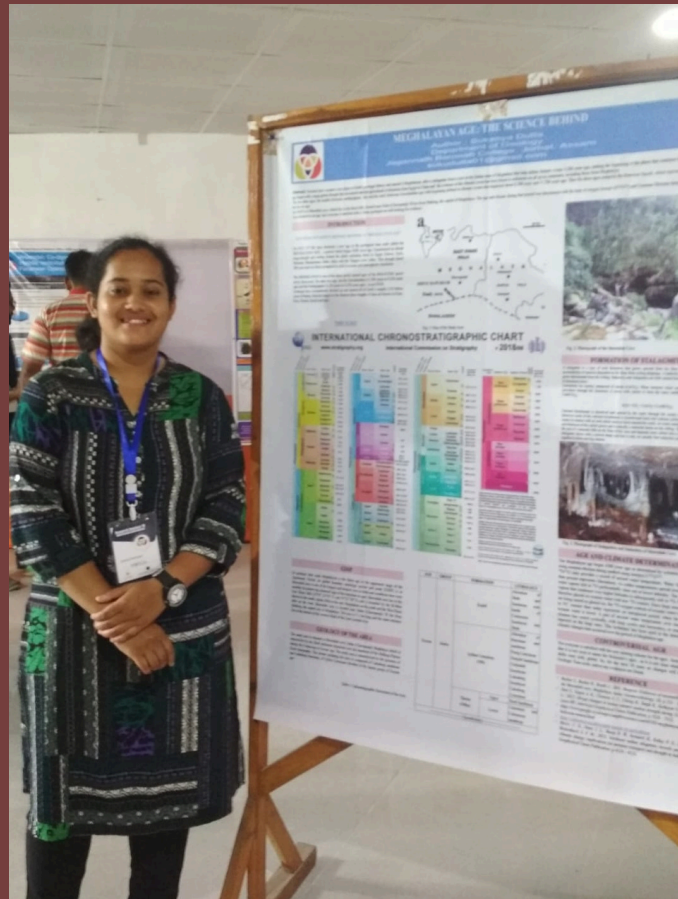
**Tanushree Saikiam**  
(2020-2023 Batch)

- 3rd prize at arm wrestling in college week, 2022



**Vishakha Rongpipi**  
(2020-2023 Batch)

- 3rd prize at photography in college week, 2022



**Sukanya Dutta, Batch (2017-2020), Best Poster Presentation at Research Conclave, IIT Guwahati, Assam**



# @STUDENTS CORNER (ACTIVITIES AND ACHIEVEMENTS)

## ACHIEVEMENTS (GROUP EVENTS & NATIONAL EXAMS)

### AAPG Annual Meet, 2019: 3D Modeling competition

Model Presented at “Research Conclave 19: An Amalgamation of Academia, Industry and Startups” IIT Guwahati

**Modal Name: Geothermal Energy**

Presenters: Bismakshree Neog, Ankita Borah, Barbie Dutta, Radrath Paul, Piyush Dutta

**Modal Name: Geodynamo**

Presenters: Abhishek Sarmah, Himangshu Saikia, Subham Malakar



Presenters: Debasish Bhagawati, Abhiraj Bordoloi, Anshuman Changmai  
**Secured: Third Position**



**Ankita Borah,**  
(2018-2021 Batch)  
**Bismakshree Neog**  
(2018-2021 Batch)

- Third prize in Semi classical Group Dance competition in college week, 2019



**Prandeep Kamal Borah**  
**Abhiraj Dutta**  
(2021-2024 Batch)

- 2nd prize in presentation held in “Jorhat Engineering College, ”JEC“, Jorhat on sustainable development



**Daradee Malakar,**  
(2018-2021 Batch)  
**Subasana Das**  
(2017-2020 Batch)

- Third prize in Badminton Doubles in College Week., 2019

#### CLEARED NATIONAL LEVEL EXAMINATION (2020-2024)

Daradee Malakar IIT Dhanbad (ISM, Dhanbad)  
Sasanka Bhuyan, NIT, Rourkela  
Shyamol Gogoi, NIT, Rourkela  
Priyam Gogoi, University of Bern, Switzerland  
Akashi Baruah, IISER, Pune  
Rituraj Borthakur, IIT Bombay  
Susmita Karmakar, IIT (ISM) Dhanbad  
Rishov Jyoti Sonowal, TISS, Mumbai  
Rumanshu Hazarika, BBAU, Lucknow  
Christina Deori, NIT, Rourkela

# @STUDENTS CORNER

## OTHER ACTIVITIES AND PARTICIPATION



Field school class session



College week cultural rally snap shot



College week post cultural rally snap shot



Model demonstration and evaluation



Model Submission



Essay Competition Prize distribution



Inter Departmental Drawing Competition



Drawing competition Prize distribution

## FACULTY PARTICIPATION

### Nurul Amin



Dr. Amin delivered several lectures on the implementation of the Choice-Based Credit System (CBCS), the National Education Policy, 2020 (NEP 2020), and other educational policies as a resource person at various higher educational institutes, including Borhola College, CKB Commerce College, Jorhat College, etc.

### Raghupratim Rakshit



Dr. Rakshit delivered a lecture at the international workshop on Sustainability and Environment as a resource person at the University of Science and Technology, Meghalaya, on 17th January 2023. He also gave a talk at the international workshop on Reimagining the Brahmaputra on 8th and 9th June 2023, as well as at the international symposium and workshop held from 27th to 29th March 2024 at Royal Global University, Guwahati, Assam, and Jagannath Barooah College, Jorhat, India, respectively.

### Raktim Ranjan Saikia



Dr. Saikia delivered numerous lectures on geoarchaeology, history, and popular science as a resource person at various higher educational and research institutes. Some of the institutes he visited include the Department of History, Dibrugarh University; the Department of History, North Lakhimpur College (Autonomous); Anandaram Dhekial Phukan College, Nagaon; South Kamrup Girls' College, Mirza; and Jorhat College, Jorhat.

### Chaitra Dhar Teye



Dr. Teye delivered a lecture at the international symposium and workshop as a resource person at Jagannath Barooah College, Jorhat, India, held from 27th to 29th March 2024.

## OUR EXTENSION SERVICES



Faculty members of the department are associated with various extension services. They have registered their names as course counselors at IGNOU, as well as for Ph.D. coursework (Research Methodology) in the Department of Commerce, J.B. College, Jorhat. In addition, they provide guidance on practical classes to Higher Secondary students studying Geology at Don Bosco Higher Secondary School, Baghchung, Jorhat.



Faculty members of the department provide practical guidance to the Higher Secondary Geology students of Don Bosco Higher Secondary School, Baghchung, Jorhat, in the year 2023.



Dr. Chaitra Dhar Taye, a faculty member of the department, accompanied the students of Jagannath Barooah College on a one-day study visit to the oil installations at ONGC, Borholla site, Jorhat, on 8th October 2021.



B.Sc. students of Indira Gandhi National Open University (Jorhat Centre) are performing their Geology practical classes in the Department of Geology under the guidance of the course counselor of the department.

# BATCH WISE GROUP PHOTOS (LAST FIVE YEARS)



## 2017-2020 Batch

Location: Wahrew River, Theriaghat. At K-Pg (earlier K-T) (Cretaceous -Tertiary) boundary.

*From top left-* Parismita Gogoi, Christina Deori, Pooja Sharma, Rituraj Borah, Dipankar Gogoi, Jyoti Nayan Panging, Bedanta Chutiya, Samudra Bora, Debashish Bhagwati, Angshuman Changmai, Abhiraj Bordoloi

*From bottom left-* Abhigyan Goswami, Sanchayita Sharma, Kanon Devi, Anisha Goswami, Girinda Borah, Neha Hussain, Sukanya Dutta, Subasana Das, Mukhlisa Tasrin



## 2018-2021 Batch

Location: GSI, Regional Training Institute, Nongrim Hills, Shillong.

*From top left-* Anurag Bharadwaj, Pranalima Pujari, Antarikhya Chetia, Tapaswi Saikia, Srutakirti Saikia, Piyush Pratim Dutta, Daradee Malakar, Brismita Shyam, Trishna Borah, Himangshu Saikia, Radrath Paul, Leeza gogoi, Abhishek Sharma, Angshuman Kashyap, Bismakshree Neog, Ankita Bora, Jishnujyoti Saikia, Sukanya Boruah, Anuj Gogoi, Kundan Doley, Subham Malakar.

*From bottom left-* Barbie Dutta, Kumar Dixit Saikia, Rahul Gogoi, Jaw Chang Shyam, Priyam Gogoi, Sasanka Bhuyan.



## 2019-2022 Batch

Location: Tipong Pani Colliery Gate, Margherita, Assam.

*From top left-* Subhangi Kashyap, Shabnam Khan, Supriya Tamuli, Prink Universe, Devina Gohain, Chiranjib Hazarika, Akangshya Goswami, Albert Hazarika, Subham Prasad Rajak, Akashi Baruah, Partha Jyoti Dutta, Ritisha Goswami, Naina Pathari, Kallul Kishore Gogoi, Abhi Nath, Kaushik Dutta

*From bottom left-* Asthajita Bhuyan, Kausturi Borah, Sewanta Kishur Bordoloi, Anirban Saikia, Md Izaz Aasim, Rishov Jyoti Sonowal, Rumanshu Hazarika, Shyamol Gogoi, Shomiron Hazarika.



## 2020-2023 Batch

Location: In front of Department of Geology, J. B. College, Jorhat, Assam.

*From top left-* Sunayan Saikia, Arindom Kaushik, Anirban Das, Dhritiman Jyoti Borah, Rituraj Borthakur, Himangshu Dutta, Mrinmoy Borah, Sagar Goswami, Arindam Saikia, Sitanshu Tanti, Himanshu Mali, Swagat Sekhar Borah, Aaryan Bharadwaj

*From bottom left-* Vishakha Rongpipi, Preity Rani Das, Tanushree Saikia, Niharika Boruah, Gayatri Pangiria, Susmita Karmakar (Absent: Dhonpriya Buragohain)



## 2021-2024 Batch

Location: Pasighat-Mariyang Road, Arunachal Pradesh.

*From top left-* Abhiraj Dutta, Lipika Das, Koustuv Saikia, Sanchit Shyam, Sanskrita Das, Gyan Jyoti Bora, Bishnu Kamal Das, Biswajit Dutta, Jagyatri Chutia, Priyanka Sarmah, Priyanshu Bora, Prandip Keot, Priyam Shandilya

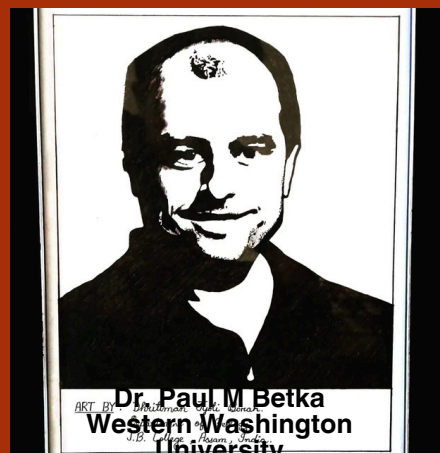
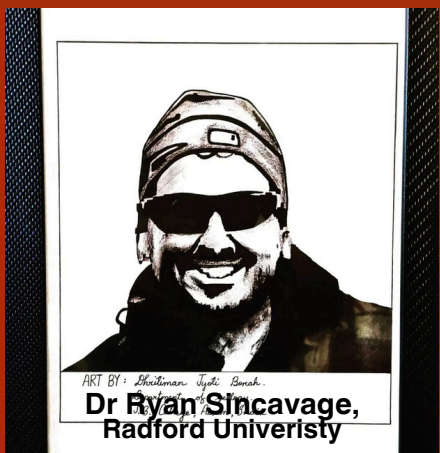
*From bottom left-* Kundal Kamal Saikia, Prandeep Kamal Borah, Ashirwad Das, Vijaylakshmi Khanikar  
PC: Rupom Neog

# ACTIVITIES OF GEOLOGICAL FORUM

The Department of Geology conducts events and activities for students on a regular basis.



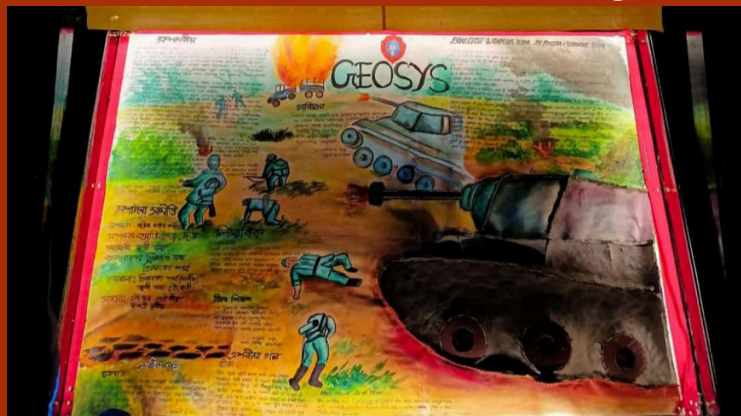
Dhritiman Jyoti Boruah presented his art work to professors from USA



Teacher's day celebration at Department (2022)

# ACTIVITIES OF GEOLOGICAL FORUM

## College Week Memories



GEOSYS, Wall Magazine, 2021-22



Cultural Rally 2023



Cover page of Hand-Written Magazine 22-23



Wall magazine by Department of Geology (2022)



Best Wall magazine Trophy 2022-23 (GEOSYS) handed over to Dr.Raktim Ranjan Saikia.



Cultural rally group (2022)

# ACTIVITIES OF GEOLOGICAL FORUM

## Different Programmes



**1st prize in Overnight Case study.  
Gayatri, Prarthana, Sukanya.  
AAPG Student Chapter IIT(ISM), Dhanbad  
2018**



**Sukanya Dutta Batch (2017-2020) 'A' grade in  
NCC C certificate.**



**Cleanliness drive**



**First One day international interactive session  
in 2022**



**Intra Departmental Quiz Competition**



**Science outreach Programme**



## ACTIVITIES OF GEOLOGICAL FORUM



**Group Photo of Farewell ceremony of 2019-2022 Batch**



**1st prize in the model making competition at Demetrix 2018.**



**Best institute award in the annual geofest of Cotton University: Demetrix, 2018**



**2nd prize in the poster making competition at Demetrix.**



**Dance competition winning team**



**Participation at Cultural Rally**

# ACTIVITIES OF GEOLOGICAL FORUM

Department of Geology bagged third prize in Cultural Rally competition of Anirvana 1.0, 2019.



# ACTIVITIES OF GEOLOGICAL FORUM

## Kohora Picnic, 2021



## Mariani-Nagajangka field trip



## Laboratory Personal



Mr. Sarat Bora started his career in the Department of Zoology at Jagannath Barooah College in 1988 as a specimen collector. Later, in 1992, he was appointed as a Laboratory bearer of the Department of Geology. Presently, he proficiently performs all the assigned teaching and learning-related laboratory activities of the department.

## EDITORIAL BOARD

- **Advisors:**
  - Dr. Utpal Jyoti Mahanta
  - Dr. Nurul Amin
  - Dr. Raktim Ranjan Saikia
- **Editor:**
  - Dr. Chaitra Dhar Taya
- **Jt. Editor:**
  - Dr. Raghupratim Rakshit
- **Members:**
  - Mr. Sorat Konwar
  - Student Members of Geological Forum

**Special Thanks to  
Mr. Digbijoy Das and Dr. Anibran Garg**

The Newsletter of the Department of Geology, Jagannath Barooah, College, Jorhat, Assam  
Upgraded to Jagannath Barooah University under Assam Act No. LXVI of 2023

## JAGANNATH BAROOAH UNIVERSITY

Situated in Jorhat, a city with a rich cultural legacy and an unparalleled historical background in the upper Brahmaputra Valley of Assam, is the esteemed Jagannath Barooah College, a recognized institution of higher education. The founding of the institution at Jorhat in 1930 was a significant factor in the growth of contemporary education in colonial Assam. With its vision and mission aligned with the goals of the country's higher education, it has evolved into the center for educational excellence throughout its 94-year history. It has made a significant contribution to the process of nation-building, global competency promotion, and the ongoing improvement of educational practices and approaches. The institution has already implemented NEP-2020 for all undergraduate programmes across all streams. The institute has been upgraded to University in December 2023.

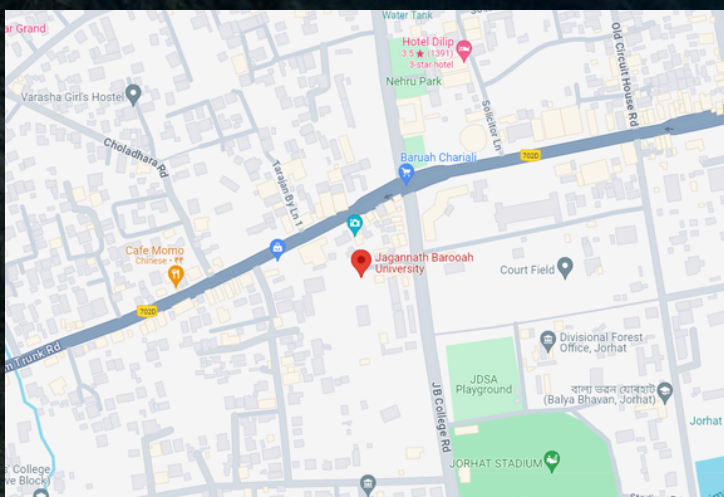
## DEPARTMENT OF GEOLOGY

The Geology Department at Jagannath Barooah College, Jorhat, stands out as the sole provider of undergraduate core and generic Geology courses in Jorhat district and is one of five such departments affiliated with Dibrugarh University. Since its establishment in 1977, the department has garnered a strong reputation, attracting high-achieving students from across Upper Assam. Many of its graduates have pursued further studies in prestigious institutions like IITs and other state and central universities across the nation and beyond in countries like France, Switzerland, and Sweden. Currently offering a B.Sc. (Honours) program in Geology, the department emphasizes a comprehensive understanding of Earth Sciences. With an annual intake of approximately 40 students, the department boasts five faculty members and sufficient facilities including modern classrooms, laboratories, and a well-stocked library.

### DEPARTMENTAL THRUST AREAS

The major focus areas are Basin Analysis, Geomorphology, Geochemistry, Geochronology, Geomorphology, Geohazards, Quaternary Geology and Tectonics. The department collaborates with ten national and ten international research and academic institutes located across three continents.

NAVIGATE YOUR JOURNEY



**JB COLLEGE ROAD, BARUAH CHARIALI, JORHAT 785001, ASSAM, INDIA**

**AIRPORT: ROWRIAH AIRPORT, JORHAT, 6.6 KM**

**RAILWAY STATION: JORHAT TOWN, JORHAT, 2.2 KM**

**BUS TERMINAL: ISBT, JORHAT, 2.1 KM**