

A Newsletter of the College, VOL. 3, ISSUE-1, January-June, 2024



Words from the Principal.....

Dr. Palashmoni Saikia

Dear Darrang College family members,

It is my great pleasure to hand over the 1st issue of Volume 3 of Darrang College Chronicle (DCC) to our family members. Through this issue we have presented the academic, research, extracurricular and other activities of the college during the period from January to June 2024. My sincere thanks to the editorial board of DCC for their continuous and dedicated effort for timely publishing the various issues of DCC.

Best wishes to all.

Thanks

From Editorial Board:

Dear Faculty Members, Non-Teaching staff and Students, Darrang College

It gives us immense pleasure to present before you the 1st issue of Volume 3 of Darrang College Chronicle (DCC). This issue is the outcome of its two years of consecutive and successful publication, which brings the News of various contributions/achievements and activities performed by the Departments, Faculty members and Students of the College from January to June 2024.

The Editorial Board of DCC conveyed their best wishes, and congratulate to all those faculty members/students whose Academic & Research contributions, Extension and relevant achievements are being published in the pages of this issue of DCC.

With sincere regards.

Dr. Akhil Baruah Editor-in-Chief, DCC.

Top Head Lines.....

- 'Yellow Page' of Darrang College inaugurated.
- Darrang College celebrated/observed Republic Day, World Water Day, Chatra Divas, Commerce Day, World Environment Day, etc.
- Darrang College Publishing House published two books during January-June 2024:
- 1.Student Research Project: A Compendium (Volume 1), and
- 2. Socio-Economic Issues and Development Dynamics in the Northeast Region of India (Seminar Proceedings).
- Two National Seminars organized during the first half of 2024.
- A total of 6 books, 40 Research papers/ (including 24 students research projects + 12 in seminar proceedings) and 1 Book Chapter, credited to the faculty members during the 1st half of 2024.
- A Modern Gymnasium inaugurated in Darrang College.

MAKING OF 'LED BULB' BY PHYSICS DEPARTMENT



Department of Physics has made LED bulbs named **DCP** (Darrang College Physics). It is made under the coordinatorship of **Dr. Saiful Islam** (Asst. Prof.).

DARRAN

DARRANG COLLEGE CHRONICLE



Darrang College "YELLOW PAGE" inaugurated on 26 January 2024.





A talk on "Role of Mass Media in Building Career" organized by the Dept. of Philosophy on 30 January 2024. Speaker: Pranjal P. Das, Alumnus & Special Correspondent of Pratidin Time, New Delhi.



Two days National Seminar inaugurated on 2 February 2024, organized by Darrang College Teachers' Unit in collaboration with ACTA and IQAC Darrang College.



Founder of 'Udrupan' Horendra Nath Morang, Assoc. Prof. & Former HoD History is felicitated by Korunadhara Trust, Sonitpur Branch, on 12 Fabruary 2024.



Plantation of Pink Bauhinia (18 Nos.) in the College Campus on the occasion of the 10th Foundation Day (13 June 2024) of Udropan, Tezpur is supported by Eco Club & IIC Darrang College.



অসমীয়া বিভাগৰ উদ্যোগত ২০ ফ্ৰেব্ৰাৰী, ২০২৪ তাৰিখে "প্ৰতিযোগিতামূলক পৰীক্ষাত কিদৰে অৱতীৰ্ণ হ'ব লাগে" বক্তৃতানুষ্ঠান অনুষ্ঠিত হয়। বক্তৃতা প্ৰদান কৰে প্ৰাক্তন স্থাত্ৰী তথা গহপুৰ ৰাজহ চক্ৰৰ "চক্ৰ বিষয়া" নমিতা বৰাই।



Assam Science Society, Tezpur Branch organized a popular talk on "Indigenous Technologies for Viksit Assam" on 28 February 2024. Speaker: Prof. D. C. Baruah, TU.



Quizoology on the occasion of "The World Wildlife Day 2024" organized by the Dept. of Zoology, on 3 March 2024.



A talk on "Exploring Earth from a far: Advancement in Remote Sensing and GIS for Research", organized on 3 March 2024 by the Dept. of Geography. Speaker: Jitumoni Bhuyan, M. Tech. IWMI, Colombia and an alumnus of the College.



Inaugural ceremony of the National Seminar held on 6 March 2024, organized by the Dept. of English in collaboration with IQAC Darrang College.



Inauguration of a Modern Gymnasium in the College on 9
March 2024 by the Alumni and internationally renowned
Arm wrestling referee Mr. Pankaj Bora.



A 5 days (11-15 March 2024) Faculty Development Program on Entrepreneurship is organized by Entrepreneurship Development Centre of Darrang College in collaboration with IQAC of the college.



A Career counseling session organized by the Dept. of commerce on 11 March 2024. Speakers: Mandeep Das, Career Mentor & Soft Skill Trainer & Director of Assured Consultancy Services, Tezpur, and Soumendra Goswami, Marketing Head, EIILM Kolkata.



A Farewell function to felicitated Dr. Khirendra Haloi, Dr. Bipul Paul, Dr. Dharmendra Kumar Sarmah, Manash Kar and Chandra Prabha Devi is organized by DCTU on 20 March 2024.



World Water Day 2024 (Theme: Water for Peace) is jointly organized by DWSM, Sonitpur and Darrang College, Tezpur on 22 March 2024.



Director of DHE, Assam and an alumnus of the College Pomi Baruah, ACS visited the College on 24 March 2024.



Celebration of Chatra Divas 2024 on the Birth Anniversary of Bodofa Upendra Nath Brahma on 31 March 2024 at the College.



Dept. of Assamese in collaboration IQAC organized a talk on 'Kathakata behind Creation' on 9 April 2024. Speaker: Geetali Bara, A story writer, Novelist & Associate editor of 'Prakash'.



One day Mask making Workshop with Anupam Goswami, Sangeet Kala Kendra, Samaguri Satra organized by the Dept. of Travel & Tourism Management on 10 April 2024.



The Dept. of Bengali organized 164th Rabindra Jayanti on 8 May 2024.



The 7th Alumni Lecture on "Mindset and Career Transformation" was organized on 9 May 2024 by the Darrang College Alumni Assoc. in collaboration with IQAC. Speaker: Deba Jyoti Das, Engineer, HP Ltd. Bangalore & an Ex-Darrangian.



দৰং মহাবিদ্যালয় মহিলা মঞ্চৰ উদ্যোগত অনুষ্ঠিত হোৱা সাদিনীয়া (০৪ - ১০ মে' ২০২৪) বিহু নাচৰ প্ৰশিক্ষণত দৰং মহাবিদ্যালয়ৰ ছাত্ৰী সকল লগতে তেজপুৰৰ বিভিন্ন অঞ্চলৰ ৩৫ গৰাকী প্ৰশিক্ষাৰ্থীয়ে অংশগ্ৰহণ কৰে।



A Workshop on "How to Prepare a Study Plan for the CSIR UGC NET" was organized by the Dept. of Zoology on 17 May 2024. Speaker: Pankaj Das, NET, NFSC Fellow, GU.





Students of the Dept. of Commerce organized 'Commerce Day' on 30 May 2024 on the occasion of Death Anniversary of Sadagor Bholanath Baruah in collaboration with Institution's Innovation Council of the College.



A talk on "IPR" organized at Darrang College on 30 May 2024. Speaker: Prof. Manabendra Mandal, Dept. of MBBT, Tezpur University.



World Environment Day 2024 is celebrated at Darrang College on 5 June.



Eco Club of Darrang College Commerce Society and Sonitpur Jila Sanskriti Oikya Mancha jointly organized a plantation program on 5 June 2024 at Garh Doul Archeological Sites, Tarajan Kumar Gaon.



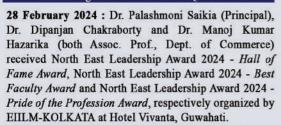
One Day Workshop on Homemade Chocolate was organized on 6 June 2024 by Darrang College Commerce Society in Collaboration with Institution's Innovation Council of the College.



An Exposure trip was organised by Dept. of Biotechnology to North East Centre of Agricultural Biotechnology, AAU, Jorhat for 6th Semester students on 10 June 2024.



A Career Guidance Program on "Career Awareness and Preparation for Competitive Examinations" was organized on 13 June 2024 by Placement and Career Guidance Cell, Darrang College in collaboration with IQAC.



6 March 2024: Dipali Barthakur Sangeet competition is organized by Dept. of Commerce on the occasion of International Women's Day 2024.

30 March 2024: In a special program organized by Darrang College Women Cell noted actress Dr. Jahanara Begum, E-rickshaw driver Panchali Das and Women Entrepreneur Amrit Madhuri are felicitated in connection with International Women's Day 2024.

GLIMPSES OF COLLEGE WEEK 2024:

















Miss Darrangian : Arki Deka

Mr. Darrangian : Mrinmoy Nath

20 June 2024: Darrang College observed the 56th Bishnu Rabha Divash. 21 June 2024: Darrang College celebrated International Yoga Day 2024.

FACULTYS' ACHIEVEMENTS

A. BOOK PUBLISHED:

Akhil Baruah. 2024. Text Book of Morphology and Reproduction of Spermatophytes (As per NEP Syllabus / For DU). Kalyani Publishers - Ludhiana, New Delhi, Noida (U.P.), Hyderabad, Chennai, Kolkata, Cuttack, Guwahati, Kochi, Bengaluru. ISBN 978-93-5540-577-7.

Akhil Baruah. 2024. A Textbook of Conservation and Cultivation of Orchids (As per NEP Syllabus / For DU). Ashok Publication, Guwahati. ISBN 978-93-6078-204-7.

Akhil Baruah. 2024. A Textbook of Tea Plantation and Management (As per NEP Syllabus / For DU). Ashok Publication, Guwahati. ISBN ISBN 978-93-6078-155-2.

Chittaranjan Baruah & Akhil Baruah. 2024. Student Research Project: A Compendium (Volume 1). Published jointly by Darrang College Publishing House and Global Net Publication, New Delhi. ISBN 978-81-19948-95-6.

Chittaranjan Baruah & Akhil Baruah. 2024. Socio-Economic Issues and Development Dynamics in the Northeast Region of India (Seminar Proceedings). Published jointly by Darrang College Publishing House and Global Net Publication, New Delhi. ISBN 978-81-19948-90-1.

U.N. Medhi, Alapana Baruah, M. Kalita, J. Goswami and K. Das. 2024.Principles of Marketing. Published by Medhi Enterprise, Guwahati, ISBN 978-81-955017-6-2.

B. RESEARCH PUBLICATIONS / BOOK CHAPTERS:

Baruah Alapana. 2024. A study on Consumer Awareness towards Green FMCG products in the food and beverage categories with special reference to Kamrup Metropolitan. Educational Administration: Theory and Practice. 30(4): 5975-5984.

Baruah Chittaranjan, Deka B., Mahanta S. & Sharma D.K. 2024. Graphene-Based Nanomaterials as Molecular Disease Theragnostic Applications. In Y. K. Mohanta, K. Biswas, S. Mahanta and S. Muthupandian (Ed.), Graphene-Based Nanomaterials: Application in Food, Agriculture and Healthcare, CRC Press, ISBN-9781003300540.

Bordoloi R., **Baruah Chittaranjan**, Das P. & Pegu A. 2024. Taxonomic Status, Length-Weight Relationship and Condition Factor of Channa stewartii (Playfair, 1867) in Morigaon District, Assam, India. J. Fisheries & Environment, 48(1), 83–91.

Rabha A., Sharma D.K., **Baruah Chittaranjan** & Das A.N. 2024. Impact of corn meal and wild yeast media on *Drosophila* diversity in the Assam-Meghalaya rolling terrain. J. Entomol. Soc. Iran 44 (3), 329–348.

Rabha A, Sharma D.K., **Baruah Chittaranjan** & Das A.N. 2024. Impact of wild yeast added to culture media on *Drosophila* abundance in and around a banana market, Daranggiri, Assam, India. Int. J. Agri. & Biosci. 13(1): 18-29.

The following chapters (research projects) are published by the students/research scholars and *faculty members* in the book Student Research Project: A Compendium (2024) edited by Dr. Chittaranjan Baruah & Dr. Akhil Baruah, published jointly by Darrang College Publishing House and Global Net Publication, New Delhi. ISBN 978-81-19948-95-6.

 Anisha Thakur & Akhil Baruah: A Systematic Survey on Spices found available in Tezpur Markets. 9-35.

- Dhanya Hazarika & Rajashree Bordoloi: Phytochemical analysis of some Medicinal plants. 36-42.
- Dipakshi Phukan & *Rabindra Hazarika*: A study on the Tea pests in the Tea gardens of Udalguri district, Assam, India. 43-73.
- Pankaj Das, Mridul Bordoloi & Chittaranjan Baruah: A study on status of Fish disease in the Semi-intensive culture system of Tezpur, Assam. 74-93.
- Dikshita Baruah & Binita Das: A study on the Fishing techniques used by the Indigenous people of the area Mahaliapara of Darrang district, Assam. 94-99.
- Mrinan Boro & Ritu Sharma: Study of Aquatic edible Insect consumed by the Bodo community of Udalguri District, BTR, Assam. 100-109.
- Kalpana Biswakarma & Sangita Baruah: A study on Dairy farm and Rescue and Rehabilitation Centre in Lokra, Sonitpur, Assam. 110-122
- Sreya Dutta & Nabanita Medhi: Impact of Beekeeping on Socio-economic status of Farmers in Dhekiajuli, Assam. 123-133.
- **Kismat Akhtar Choudhury &** *Chittaranjan Baruah*: Freshwater Fish diseases in selected Beels and Fish farms in Nagaon district, Assam and their Management practices. 134-151.
- Daisy Hazarika, *Ritu Sharma & Parishmita Devi*: Protective Effects of Pomegranate juice against Bisphenol-A Induced Reproductive Toxicity in Swiss Albino Male Mice. 152-164.
- Manisha Devi, Kalpana Biswakarma & Sangita Baruah: A Preliminary study on Spider diversity in Tezpur, Sonitpur district, Assam. 165-174.
- Meghna Bhagawati & Parishmita Devi: Assessment of Water quality and overall Biodiversity of certain Water bodies of Tezpur, Assam. 175-185.
- Latashree Kalita & Momi Das: A study on the Diversity and Status of Fishes of Samaguri beel of Nagaon District, Assam. 186-19
- Kakali Devi & Manash Protim Hazarika: Synthesis and Characterization of Bimetallic Cu-Ni Nanoparticles supported on Silica. 194-200.
- **Pranjit Shounak &** *Pinky Gogoi*: Greener synthesis of Biginelli 3, 4-dihydropyrimidinone (DHPM) derivatives aided by heterogenized Ionic liquid system. 201-225.
- Laba Handique, Luisa Sarmah, Nabanita Dutta & Viva Narzary: Marshall-Olkin Kumaraswamy Lomax Distribution with their Properties and Real-Life Application. 226-242.
- Ujjal Kalita, Niki Ojha, Darshana Das & Girin Saikia: A Statistical Analysis of Impact of Modern Technologies on Agricultural Production near Tezpur, Assam. 243-251.
- Pravakar Chetry, Manash Sarkar; Mihir Jyoti Baruah & Girin Saikia: A Case study on Impact of Gunostav under Gabharu Block of Sonitpur District, Assam. 252-262.
- Arunima Choudhury & Arundhati Deka Nath: A study on the effects of Food habits on the nutritional status of adolescents of Tezpur, Assam. 263-281.
- Rajkumar Musahary & Arundhati Deka Nath: The t test, Mann Whitney U test and Wilcoxon matched pairs test: A Brief Description. 282-295.
- Raja Borah & Gulap Sonowal: Critical Analysis on Fire Service in Tezpur (Sonitpur): A Case Study. 296-310.
- Nilkamal Borah & Lakshmi Roy: A study on Problem and Conservation measures of Kaziranga National Park, Assam. 311-327.
- Amisha Kundu & Arundhati Deka Nath: Factors influencing Anaemia among women from Urban and Rural area of Tezpur. 328-345.
- Dharitri Payeng, Sweta Mahanta & Devdutta Kakati: Study on Sino-Indian war. 1962 346-351.

The following research papers are published by the students/research D. ARTICLES OF GENERAL INTEREST PUBLISHED: scholars and faculty members in the book Socio-Economic Issues and Development Dynamics in the Northeast Region of India (2024) edited by Dr. Chittaranjan Baruah & Dr. Akhil Baruah, published jointly by Darrang College Publishing House and Global Net Publication, New Delhi. ISBN 978-81-19948-90-1.

- A case study of Kamarchuburi, Tezpur, Assam.
- · Himakhi Bhattacharyya, Chinmoyee Rajbongshi & Gulap Sonowal: Land use-land cover changes in Tezpur (2017-2023): Using geo-spatial tools.
- Alpana Baruah & Uddipta Nayan Medhi: Green Marketing in the Digital Age: Analyzing the Role of Social Media in Promoting Sustainable Products.
- Niha Dutta: Growth and Development of Tourism Industry in Assam (India) during Covid-19 Period.
- Pankaj Das, Rishi Das, Puspakhi Borah & Chittaranjan Baruah: A study on consumer-oriented marketing strategies of fish in Sonitpur district of Assam.
- Laba Handique: The Poisson Topp-Leone Burr-X Distribution with their Properties and Real Life Application.
- · Abhijit Das & S. P. Biswas: Assessment of primary productivity and community respira-tion of river Mara Bharali in Sonitpur district of Assam.
- · Amrit Pegu & Chittaranjan Baruah: Ichthyofaunal diversity in Biswanath and Lakhimpur district of Assam, India.
- · Mathur Chandra Barman & Moon Moon Bora: Adoption level of high yielding variety and new high market value crops in Agriculture of Sonitpur district, Assam.
- Laba Handique: The Beta Poisson-Lomax Distribution: Its Properties and Jamugurihat. Real Life Application with Failure Time Data.
- · Dhrubajit Sarma: The concept of tīrtha and its socio-cultural dimensions depicted in the Tirtha-kaumudī of medieval Assam region of Northeast India.
- · Simi Gogoi & Mithu Boro: Anxiety level among working and non-working married women of Duliajan, Assam.

PRESENTED / PAPER NOVEL STRAINS **DISCOVERED / TALK DELIVERED, ETC.:**

Dr. Barnali Das Deka & Hrishikesh Sharma, Asst. Prof & HoD, and 6th Semester student, respectively, Dept. of Mathematics presented a research paper on "Mathematical modeling and stability analysis of mental stress on student community in highly competitive environment" at International Seminar on Interdisciplinary Scopes of Mathematical and Computational Logic (ISISMCL2024) organized by Dept of Mathematics, Gauhati University, Assam during 3-4 May 2024.

Minakshee Sarmah, Asst. Prof., Dept. of Biotechnology, has isolated eight bacterial strains from 'Gut microflora' of Tai-Phake community of Assam as part of on-going research work. Based on submission of nucleotide sequences of these novel strains, to GenBank, NCBI, she has received the annotated GenBank accession numbers- PP916573, PP916574, PP930729, PP930747, PP930748, PP930750, PP930751 and PP930752.

Dr. Pinky Gogoi, Asst. Prof., Dept. of Chemistry, as part of ongoing Faculty Exchange Program (MoU) delivered a talk on 'Electrochemistry and Conductance and NMR Spectroscopy' on 5 March 2024 at D. R. College, Golaghat.

Ghanashyam Timshina, Assoc. Prof. and HoD Nepali nominated as a member of the Board of Studies, Dept. of Nepali, Madhabdev University vide Notification-MDU/23/BoS/52/1073 dated 14 May 2024.

Manish Patowary, Asst. Prof., Dept. of Statistics qualified GATE in Statistics-2024 (All India Rank 146).

Dr. Akhil Baruah. 2024. Orchids as the States Flower of India and in Herbal Medicines. In Souvenir and Abstract of the International Conference cum Workshop on "Resource Development of Medicinal and Floricultural Orchids -Lab Techniques to Entrepreneurial Ventures & Orchid Show (Hybrid Mode)" organized by 'The Orchid Society of India, Chandigarh' jointly with 'Botanical • Soumyajit Paul & Lakshmi Roy: A study on the pattern of land use changes: Survey of India, Kolkatta' and 'CSIR-National Chemical Laboratory, Pune', held at Pune during 15-17 March 2024. Pp. 64-68.

> ড° **অখিল বৰুৱা** (২০২৪), তৈল খেজুৰ ঃ অৰ্থনৈতিক গুৰুত্ব আৰু প্ৰকৃতিৰ ওপৰত ইয়াৰ প্ৰভাৱ। নতুন আৱিস্কাৰ, মৌচাক প্রকাশন, যোৰহাট, জানুরারি, পুঃ ১৯-২ই ।

ড° **অখিল বৰুৱা** (২০২৪), ফল-মূলৰ বতৰা ঃ নাৰিকল। নতুন আৱিস্কাৰ, মৌচাক প্ৰকাশন, যোৰহাট, মাৰ্চ, পঃ ২১-২৩

ড° অখিল বৰুৱা (২০২৪), বিচিত্ৰময় অৰ্কিড আৰু ইয়াৰ ভেষজ গুণাগুণ।প্ৰান্তিক, গুৱাহাটী, ১- ১৫ এপ্ৰিল, পৃঃ ৩১-৩২।

ড° **অখিল বৰুৱা** (২০২৪), যকুৎ কেনচাৰ নিৰাময়ক ঔষধি উদ্ভিদঃ পৰসৌ। প্ৰান্তিক, গুৱাহাটী, ১৬-৩০ এপ্ৰিল, পুঃ ৪২।

ড' অখিল বৰুৱা (২০২৪), ফল-মূলৰ বতৰা ঃ লেতেকু। নতুন আৱিস্কাৰ, মৌচাক প্ৰকাশন, যোৰহাট, এপ্ৰিল, পুঃ ২০-২৯ ড° **অখিল বৰুৱা** (২০২৪), ফল-মূলৰ বতৰা ঃ কৰজা । নতুন আৱিষ্কাৰ, মৌচাক প্ৰকাশন, যোৰহাট, মে, পুঃ ২১-২২

ড° **অখিল বৰুৱা** (১৩ মে', ২০২৪), বাঁহ ফুলাৰ বৈজ্ঞানিক ভিত্তি, দৈনিক অসম, গুৱাহাটী।

ড° **অখিল বৰুৱা** (৩ জুন, ২০২৪), মেজাংকৰি – সিংখাপৰ পৰা উদ্যোগিক পণ্যলৈ। দৈনিক অসম, গুৱাহাটী।

ড' অখিল বৰুৱা (১০ জুন, ২০২৪), ৰাসায়নিক পদাৰ্থনে পকোৱা ফল আৰু বুপ্ৰভাৱ, দৈনিক অসম, গুৱাহাটী।

STUDENTS' ACHIEVEMENTS

Ankit Choudhury, 4th Semester, Dept. of Biotechnology has achieved 2nd position in 55.3 kg body weight group in 4th All Assam Power Lifting Championship held on 24 June 2024 at Guwahati, organized by All Assam Iron Games Association, Guwahati, Assam.

Anuprerona Mahanta, 4th Semester, Dept. of Biotechnology has won 1st prize in Inter College Debate Competition, held on 8 April 2024, organized by the College Environment and Climate Cell & Students Union, T.H.B College,



Bhanu Priya Boro, MA 4th Semester, Dept. of Assamese participated in the 4th Assam Power Lifting Championship held on 24 June 2024 at Sankardev Natya Mandir, Mazgaon, Tezpur and achieved 1st position in 67.5 kg body weight group.

Deepsikha Patowary, currently a 5th Semester student, Dept. of Physics has received DST-INSPIRE fellowship for higher studies (B.Sc. plus M.Sc.). The fellowship was granted in June 2023.



Karina Bora, currently a 5th Semester student, Dept. of Commerce participated in 4th All Assam Arm-wrestling championship 2024 held at Duliajan during 6-8 June 2024 and got Champion of Champions girl (U-21 63kg category) and also selected for National

Manisha Dutta, 6th Semester, Dept. of Biotechnology cleared All India Level GAT-B exam 2024 and selected for DBT scholarship for P.G course at MBBT, Tezpur University.

Parishmita Deka, currently a student of 5th Semester, Dept. of Mathematics, has been selected for IASc-INSA-NASI Focus Area Science Technology Summer Fellowship (for a period of 56 days) in 2024, under the Guidance of Prof. Rupam Barman, IIT Guwahati.

Riya Choudhury, 2nd Semester, Dept. of Biotechnology has won 1st prize in Quiz competition-Biomelange, held during 28-29 February 2024, organized by MBBT, TU as part of InSCIgnis 2024.

Satyamjeet Borah, 2nd Semester, Dept. of Biotechnology has won 2nd prize in Quiz competition-Biomelange, held during 28-29 February 2024, organized by MBBT, TU as part of InSCIgnis 2024.



Editorial Board: Darrang College Chronicle

: Dr. Palashmoni Saikia Chairman Chief Editor : Dr. Akhil Baruah

Associate Editors:

Dr. Manoj Kumar Hazarika Dr. Rabindra Hazarika Email ID: dcchronicle2022@gmail.com

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