



## OFFICE OF THE PRINCIPAL

আনন্দৰাম ঢেকিয়াল ফুকন মহাবিদ্যালয়  
নগাঁও (অসম), পিন : ৭৮২০০২

**ANANDARAM DHEKIAL PHOOKAN COLLEGE**  
Nagaon (Assam), Pin- 782002

Estd. 1959

Mob. : 97066-98333, 94353-17320

Ph. : 03672-358614 (O)

Website : [www.adpcollege.ac.in](http://www.adpcollege.ac.in)

e\_mail : principaladp@gmail.com

**Dr. Sadananda Payeng, M.A., Ph.D.**  
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## First List of Accepted Abstracts ICSEEB 2026 (10/02/2026)

Sl. No	Author	Paper Title	Affiliation
1.	Ankita Bhuyan	MIMO-Empowered RF Energy Harvesting for 5G and Beyond over Fading	Dibrugarh University
2.	Arun Goyal	A bifunctional xylanase with $\beta$ -xylosidase activity for xylan-based biomass conversions	Department of Biosciences and Engineering, IIT Guwahati, Guwahati 781039 Assam
3.	Bochra medjadji	Evaluation of the Anti-Inflammatory Activity of <i>Thymus vulgaris</i> L. for Sustainable Health Applications	Department of biology, Faculty of Natural and Life Sciences, University Ahmed Zabana, Burmadia, 48000, Relizane, Algeria
4.	Shreya Borah	2D Van-der-Waals Artificial heterostructures for information technologies and their advanced synchrotron characterization	ALBA Synchrotron Light Source, 08290, Barcelona, Spain
5.	Pollobi Duara	Climate Change and Environmental Impacts on Pollinating Insects in Majuli,	Department of Zoology, Majuli College, Kamalabari Majuli

Lakshmi K. Singh

Dr. Lakshmi K. Singh  
Organising Secretary & Convener  
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6.	Rashmi Sharma	Green Manufacturing Strategies and Sustainability Outcomes in Mini	ADP College, Nagaon
7.	SNEHA PAUL	An Isoniazid-Based Turn-On Fluorescent Probe for Selective $\text{Al}^{3+}$ Detection in	RANGAPARA, SONITPUR, ASSAM
8.	Paragjyoti Chutia	Dopant Concentration-Driven Control of Resistivity and Thermopower in CSA-Doped	Dept. of Physics, DHSK College (Autonomous), Dibrugarh, Assam
9.	BORNALI BORA	Optimised Bioremediation of PAH-Contaminated Synthetic Wastewater Using Hydrocarbonoclastic Bacteria Isolated from Refinery Effluent	JORHAT, STATE: ASSAM
10.	Harpreet Kaur	Antibacterial and Phytochemical Screening and GC-MS and TLC Analysis of Leaves from Selected Medicinal Plants	Tripura University
11.	Isheetaa singha	EVALUATING THE HEMOLYTIC POTENTIAL OF CURCUMIN	Department of MBBT, Tezpur University, Napaam -784028, Assam
12.	Nitamani Choudhury	Preparation and characterization of pectin-polyphenols conjugate from <i>Dillenia indica</i>	Tezpur, Assam
13.	Aishwarya	Towards a zero-waste biorefinery: Co-production of bioethanol, xylitol, and value-added lignin from wild elephant grass	Indian Institute of Technology Guwahati, Assam
14.	Vishwanat h Yadav	Design and optimization of a recombinant crude enzyme cocktail for dSSF-driven bioethanol production from delignified bamboo biomass	Institute of Technology Guwahati, Assam
15.	Jeet Kumar Nath	Biotechnology and Biosciences for Sustainable Development Theme: Pharmacology and Health Sciences	Tapesia, Sonapur, Assam, 782402

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16.	Smita Paul	Physicochemical and Microbial Insights into Petroleum-Contaminated Ecosystems: Isolation of Effective Degrader Strains	Pulibor, Jorhat, Sensowa Gaon, Assam 785006
17.	Anamica Lomga Munda	Climate Change, Biodiversity and Environmental Policy Theme: Climate Change and Environmental Impact	Tapesia, Sonapur, Assam, 782402
18.	Tonuj Deka	Use of plasma activated water to foster plant growth	Tezpur College, Tezpur 784001, Assam, India
19.	Rajat Kanti Saha	Analysis of surface texture of Fe-doped ZnO Nanoparticles (NPs) by using the tools of NLD for Biological Applications	Balalgre, Tura, Meghalaya
20.	NILAKSHI BORAH	Biodiversity Conservation and One Health in North-East India: From traditional knowledge to AI-driven solution	Dibrugarh college, Dibrugarh
21.	DEEPSHIKHA MORAN	Ameliorative potential of Alternanthera sessilis (L.) against 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone induced teratogenesis in Swiss albino mice exposed during gestational period	Department of Zoology, Dibrugarh College, Dibrugarh, Assam
22.	Biman Sonowal	Atmospheric degradation of gas phase 2-Fluoropropene by five atmospheric radicals - Nitrate (NO <sub>3</sub> ), Nitric oxide (N.O), Hydroperoxyl (HO <sub>2</sub> ), Hydroxyl (O.H) and Chlorine (Cl.): insights into the reaction mechanism and kinetics through DFT study.	Uzaanbazar, Guwahati, pin code 781001
23.	NEELAKSHI SARMA	Emerging Trends in Renewable Energy Sources	Department of Physics, Assam Don Bosco University, Sonapur, Assam, India
24.	Juna Probha Devi	Spatio-Temporal Trends in Precipitation over Assam, India (1951–2022): Evidence from Modified Mann-Kendall Test and Sen's Slope Analysis	Dhing College, Dhing, Nagaon- 782123, Assam

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26.	Prajwalita Patir	Economic valuation of ecosystem services of Maijan beel using a perception-based willingness to pay approach; a preliminary report	Dibrugarh College, Boiragimath, Dibrugarh, Assam
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28.	Iswar Prasanna Borgohain	Effect of pH level on photocatalytic degradation of Methyl Orange dye by MoS <sub>2</sub> nanosheets under UV irradiation	Department of Physics, Gauhati University
29.	Dhanjit Medhi	Fluorometric detection of mercury in potable water using pure Methylene Blue	Department of Physics, Gauhati University, 781014, Assam, India
30.	Santanu Goswami	Biochemical Characterization of Tea Liquor as per different Brewing Conditions and Sustainable Valorization of Tea Waste for Dyeing of Silk	Dept. of MBBT, Tezpur University
31.	HRIDISHA NANDANA HAZARIKA	Morphological Taxonomy of <i>Tetraponera rufonigra</i> (Formicidae: Pseudomyrmecinae)	Department of Zoology, Tezpur College, Sonitpur-784001
32.	Politraj Sonowal	Evaluation of crystallinity and functional group changes in natural microfibers extracted from areca and murta plants	Department of Mechanical Automobile Engineering, Bongaigaon Polytechnic, Bongaigaon
33.	Tanushree Das	Altered Leptin Receptor Expression Following Long-Term Excess Zn Supplementation in Wistar Rats	Dibrugarh, Assam
34.	Satabdi Saikia	ECOLOGICAL RESILIENCE AND SUSTAINABLE MANAGEMENT OF ICHTHYOFAUNAL DIVERSITY: A CASE STUDY OF UPPER ASSAM'S	SALAGURI NO 2, SIVASAGAR, ASSAM, 785666

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36.	Parbin Sultana	A Study on Educational Challenges due to Environmental Issues in Jengoni-Kaladuba Char Area of Nagaon District, Assam	Sankardev Path, Katimari Grant, In front of Bharat Petroleum, House no. 51, Haibargaon, Nagaon, Assam.
37.	PRODIP KUMAR GOSWAMI	Fe (III) catalyzed reverse ATRP of Glycidyl Methacrylate and Octadecyl Methacrylate using dispersion polymerization	DEPARTMENT OF CHENMISTRY, SIBSAGAR UNIVERSITY
38.	Tinku Nath	Periodic Markets as Grassroots Institutions Promoting Environmental Sustainability: Evidence from Morigaon District, Assam.	Department of Geography, Dhing College, Nagaon, Assam
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40.	Syeda Azeem Unnisa	Spatiotemporal Analysis of Noise Pollution Trends in Hyderabad: A Comparative Assessment of Land-Use Zones Data	Department of Environmental Science, University College of Science, Osmania University, Hyderabad, Telangana State, India.
41.	Neeta Basumatary	Orchid Flora of Jiadhal Reserve Forest, Dhemaji, Assam: Diversity and Conservation Perspectives	Nowgong Girls College, Nagaon, Assam
42.	Mousumi Terangpi	Ethnobotanical Study of Medicinal Plants Used by the Bodo Community in Dhing, Nagaon District, Assam	Dhing College, Dhing, Nagaon, Assam

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44.	Paramita Chakravarty	Ethnobotanical Diversity and Traditional Uses of Aquatic and Semi-Aquatic Medicinal Plants in the Brahmaputra Floodplains of Morigaon District, Assam, India	Dhing, Nagaon, Assam-782123
45.	Rakhi Bhattacharyya, GANGUTRI SAIKIA	Phytochemical screening and Antioxidant activity of leaves of <i>Justicia gendarussa</i> Burm.f.	Department of Botany, Nowgong Girls' College
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49.	Shivang Kapoor	Unveiling Shared Transcriptomic Signatures and Therapeutic Natural Compounds for Diabetic Kidney Disease and Peripheral Neuropathy	#318, sector-46c, Chandigarh, 160047
50.	Miss Sony Gupta	Illustration of Phytochemical Analysis and Basics of Microbial techniques in Biotechnology	Purabangla, Golaghat, Assam
51.	Tanya Jindal	Targeting Mitochondrial Dysfunction to Mitigate Neuro-Metabolic Stress in Type 2 Diabetes Mellitus	Chandigarh, India
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57.	BONDITA ROBIDAS	An Investigation on Biochar-Based Nanomaterials from Tea-Waste for Oil Spill Remediation	DEPARTMENT OF PETROLEUM ENGINEERING, DUIET, DIBRUGARH UNIVERSITY
58.	Sochin Boro Choudhury	Geospatial Assessment of Forest Fragmentation and Vegetation Stress in a Forest Fringe Landscape of West Karbi Anglong, Assam	Bimala Prasad Chaliha College, Nagarbera, 781127
59.	Bandana Gogoi	Variability trend study of Meteorological parameters over six selected areas of Arunachal Pradesh.	Department of Physics, D. N. Govt. College, Itanagar Arunachal Pradesh
60.	Nurin Afzia	Development of anthocyanin-based freshness indicator films using tea tree oil-based Pickering nanoemulsion stabilized by cassava peel derived cellulose nanofiber	Vill Dhupaguri Gaon PO Dhupaguri PS Dhing Pin 782123 Dist Nagaon
61.	RAJDEEP DAS	Antibacterial activity of the epidermal mucus extracts of Channa striata (Bloch, 1793) against Aeromonas hydrophila	Department of Zoology, Duhnoi College (Autonomous), Duhnoi, Goalpara- 783124

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65.	Galina Moirangth em	FABRICATION AND STANDARDIZATION OF LYCOPENE-LOADED NANO EMULSION USING HEIYAI (ELAEAGNUS LATIFOLIA L.) LYCOPENE EXTRACT AND ITS APPLICATION	Tezpur university
66.	Hijam Merina Devi	Formulation of gummies from roselle calyces extract and study its quality attributes during storage	Tezpur University, Assam
67.	Pooja Sanasam	DEVELOPMENT OF PLANT-BASED YOGURT ANALOGUE USING PSEUDO-CEREALS	Tezpur University, Assam
68.	Musharaf Ahmed Choudhary	International Conference on Sustainable Environment, Energy and Biosciences (ICSEEB- 2026) <i>Mucuna pruriens</i> (Linn.): Phytochemical analysis with GC-MS approach.	Vill-Paschim Kawaimari, P.O - Haiborgaon, P.S - Sadar, Pin-782002, Dist.-Nagaon
69.	Thungchan o S Ezung	Formulation of gummies from roselle calyces extract and study its quality attributes during storage	Tezpur university. Tezpur Assam
70.	Parijat Hazarika	Isolation of Methicillin-Resistant <i>Staphylococcus aureus</i> from Raw Milk of Southern Assam and Evaluation of Antibacterial Activity of Silver and Zinc Oxide Nanoparticles	Institute of Advanced Study in Science and Technology

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71.	Bhargab Deka	Use of magnetic phenomena in Waste management systems as renewable energy source	Department of Physics, Nowgong Girls' College, Nagaon 782002
72.	Archana Bhatnagar	Unlocking the potential of Peurarin: A bioactive approach to lupus management	Panjab University, Chandigarh-160014.
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74.	Susmita Bora	Fabrication and Characterization of Chitosan Derived from Aquatic Waste and Spent Mushroom Substrate	North Haibargaon, Ward no.1, MD-Road, Nagaon, Assam
75.	Sampurna Kashyap	Genomic insights into <i>Tinospora cordifolia</i> -associated drought-tolerant isolate <i>Micrococcus</i> sp.TCR-5	Department of Botany, Dhing College, Dhing, Nagaon, Assam, 782123
76.	Musharaf Ahmed Choudhary	<i>Mucuna pruriens</i> (Linn.) - Phytochemical analysis with GC-MS approach	Vill-Paschim Kawaimari, P.O - Haiborgaon, P.S- Sadar, Pin-782002, Dist.- Nagaon
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84.	Dr Mousumi Bhuyan	Study of NCF Dominance in Fission Dynamics	Department of Physics, Rangia College
85.	Dr. Rajdeep Das	Antibacterial activity of the epidermal mucus extracts of <i>Channa striata</i> (Bloch, 1793) against <i>Aeromonas hydrophila</i>	Department of Zoology, Duhnoi College (Autonomous), Duhnoi, Goalpara-783124, Assam
86.	Indrani Gogoi	Comprehensive Phytochemical Investigation, GC-MS based metabolite profiling and anti-oxidant evaluation of <i>Heliotropium indicum</i> Linn.	DKD College, Dergaon, Dist: Golaghat
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88.	Taslema Begum	Study on the epidermal mucus protein content and its bactericidal activity on cypermethrin treated <i>Channa punctata</i> (Bloch, 1793)	Department of Zoology Nabajyoti College, Kalgachia, Barpeta:781319, Assam
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90.	Rajib Kagyung	Traditional Knowledge of Wound-Healing Medicinal Plants among Tribes of the Dehang-Debang Biosphere Reserve, India	RRB Road, South Haiborgaon, Nagaon-782002, Assam, India
91.	PYAR MD RAINA	Environmental Crisis and Ecological Imbalance in Northeast	Dept. of English, ADP College, Nagaon.

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*Lakshmi K. Singh*

Dr. Lakshmi K. Singh  
Organising Secretary & Convener  
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114.	Dharitree Dutta	Nonlinear Structures in Saturn's Magnetosphere	Department of Physics, Anandaram Dhekial Phookan College, Nagaon, Assam

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119.	Tanaya Bordoloi	Enhanced Oil Recovery via Formation Brine Dilution in Upper Assam Sandstone Reservoirs: Wettability and Coreflooding Insights	Department of Petroleum Technology, Dibrugarh University
120.	Bhaskar Jyoti Saikia	Plant-Based Biosurfactant from <i>Sapindus mukorossi</i> for High-Salinity and High-Temperature EOR Applications	Department of Petroleum Technology, Dibrugarh University
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124.	Sparshan Bharadwaj	Maximizing Energy Efficiency by Optimizing Artificial Lifts to Achieve Carbon Neutrality in Upstream Industries	Department of Petroleum Technology, Dibrugarh University

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125.	Anisha Sah	Synthesis and Characterization of Biosurfactant for Microbial Enhanced Oil Recovery	Department of Petroleum Technology, Dibrugarh University
126.	Alishmita Dutta	Investigation of Zinc Oxide Nanoparticle-Surfactant Synergy for Enhanced Foam Stability in Oil Recovery Applications	Department of Petroleum Technology, Dibrugarh University
127.	Shivshankar Sahu	Zinc Oxide Architectures Engineered MXene Membrane for Functional Applications	Department of Physics, National Institute of Technology Nagaland
128.	Madhubanti Das	Molecular insights into the antifibrotic action of Glycosmis pentaphylla in CCl4-induced hepatic fibrosis through TGF $\beta$ 1/Smad2/3 signaling modulation, oxidative stress, and inflammatory pathways	Animal Physiology and Biochemistry Section, Department of Zoology, Gauhati University, Jalukbari, Guwahati-781014, Assam, India
129.	Hemanga Jyoti Sarmah	The application of the Transition metal chalcogen systems in the thermo-electric energy applications: a DFT study	Department of Physics, Morigaon College (Autonomous), Morigaon, Assam-782105
130.	Chittaranjan Nath	Writing the Hills and Rivers: Sustainability and Environmental Ethics in Northeast Indian Literary Traditions	ADP College, Nagaon, Assam
131.	Archana Talukdar	Fictional Lamentation of Environmental Degradation in Saurabh Kumar Chaliha's Selected Short Stories	ADP College, Nagaon, Assam
132.	Baibhab Bibhur Bora	Allegory of the Anthropocene: Environmental Degradation and the Collapse of the Ecological Sacred in Amitav Ghosh's The Living Mountain	Tezpur University

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133.	Parul Sharma	Development of electrochemical biosensor platform for detection of cancer biomarker using functionalized graphitic carbon nitride nanosheets based screen printed electrode	Special Centre for Nanoscience, Jawaharlal Nehru University, New Delhi
134.	Mahmuda Begum	Impact of Magnetic Field-Modified Ion Streaming on Shear Viscosity and Conductivity in Strongly Coupled Dusty Plasma	Department of Physics, Lakhimpur Girls' College, North Lakhimpur, Assam-787031, India
135.	Dils Joree	Effects of Tree felling on Avian Species in Morigaon District, Assam	Department of Zoology, Morigaon College, Morigaon-782105, Assam, India
136.	Zokapsang Lungtau	Effects of ionosphere on radio communications - A review	Dhakuakhana College, Assam
137.	Shayori Bhattacharjee	Experimental and Mathematical assessment of Output Stability in a Cobalt-60 Teletherapy Unit	Assam Medical College & Hospital, Dibrugarh, Assam
138.	Dibakar Basfor	Development and evaluation of indigenous microbial consortia from Tezpur Municipal Waste for rapid composting and soil health improvement.	Department of Zoology Darang College, Tezpur
139.	Amanika Dutta	A Comparative Analysis of Alternative Fuels to Natural Gas: Biogas and Hydrogen-Blended Natural Gas	Department of Petroleum Technology Dibrugarh University
140.	Masuma Asrabi	Phytochemical Screening and Biological Activities of Diplazium esculentum	Department of Applied Biology, University of Science & Technology Meghalaya
141.	Sashanka Gogoi	Urban Heat Island (UHI) Formation in Expanding Towns of the Upper Brahmaputra Valley Special reference to Dibrugarh city: A Geo-spatial and Ecological Approach.	Department of Geography, Moran College

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142.	Rwirub Brahma	Green Synthesis, Characterization, Phytochemical Profiling, and Antioxidant Evaluation of Zinc Oxide Nanoparticles Using <i>Ficus racemosa</i> and Black Turmeric	Department of Biotechnology, Gauhati University
143.	N. Tachangli, Rajdeep Dutta	Comparative Nutrient Removal Efficiency of Biochar Derived from Invasive Weeds	College of Fisheries, Assam Agricultural University
144.	B. K. Das	Four parameter fitting method for electrostatic probe diagnostics in weakly ionised plasmas	Department of Physics, Dakshin Kamrup College

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