



## OFFICE OF THE PRINCIPAL

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

**ANANDARAM DHEKIAL PHOOKAN COLLEGE**  
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**Dr. Sadananda Payeng, M.A., Ph.D.**  
Principal & Secretary

### List of Accepted Abstracts ICSEEB 2026 (11/02/2026)

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 Thymus vulgaris 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, Assam, India	Department of Zoology, Majuli College, Kamalabari Majuli
6.	Rashmi Sharma	Green Manufacturing Strategies and Sustainability Outcomes in Mini Cement	ADP College, Nagaon

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Dr. Lakshmi K. Singh  
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8.	Paragjyoti Chutia	Dopant Concentration-Driven Control of Resistivity and Thermopower in CSA-Doped Polyaniline Nanotubes	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	CSIR-NEIST, JORHAT
10.	Harpreet Kaur	Antibacterial and Phytochemical Screening and GC-MS and TLC Analysis of Leaves from Selected Medicinal Plants	Tripura University
11.	Isheeti 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
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14.	Vishwanath 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	HSP90 as a Molecular Drug Target in Bacterial and Fungal Infections	Department of Zoology, Assam Don Bosco University

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16.	Smita Paul	Physicochemical and Microbial Insights into Petroleum-Contaminated Ecosystems: Isolation of Effective Degrader Strains	CSIR-NEIST, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India
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18.	Tonuj Deka	Use of plasma activated water to foster plant growth	Department of Physics, Tezpur College
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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 (NO), Hydroperoxyl (HO <sub>2</sub> ), Hydroxyl (OH) and Chlorine (Cl.): insights into the reaction mechanism and kinetics through DFT study.	Cotton University
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27.	Mausumi Das	Polyaniline and Its Composites as Sustainable Gas Sensing Materials: A Materials Science Perspective	Department of Physics, Sipajhar college, Sipajhar-784145
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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
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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	Department of Zoology, Sikkim University, Gangtok, Sikkim, India

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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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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 TheLiving 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
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
145.	Malti K. Singh	A comparative wood anatomical study of 5 timber species of upper Assam	Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Dalgaon, Darrang, Assam
146.	Sulakshna Brahma	Environmental and health impacts of potentially toxic elements near a cement plant in Assam, India-A statistical approach	Department of Chemistry, Anandaram Dhekial Phookan College, Nagaon
147.	Madhubanti Das	Molecular insights into the antifibrotic action of <i>Glycosmis pentaphylla</i> 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
148.	Monalisa Das	Corporate Social Responsibility and Sustainable Development in India An Interdisciplinary Approach to Climate Action, Renewable Energy, Environmental Management, and Biosciences	Research Scholar, Department of Juridical Studies, Mahapurasha Srimanta Sankardev Vishwavidyalaya, Guwahati Unit
149.	Bandana Singha	A Step-by-Step Analysis of Rooftop Solar Photovoltaic Subsidy Implementation for Residential Households in Assam, India	Lead Scientist, Greenoearth Company, Delhi

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