

## Technical Session 11

Subject - Agricultural Sciences including Veterinary Sciences

Date: 25.01.2025

Time: 12.15 PM - 2.45 PM

Venue: Room V6

Sl. No.	Application No.	Name of the Presenting Author	Title of the Abstract
1	112353	Priyanka Das	Leaf architecture, morphology, and phytochemical variation among thirty - six clones of Camellia sinensis from Indian sub-Himalayan region: Unveiling the most antioxidant rich clone
2	121719	Rahul Jaiswal	Detection of Diseases and Nutrient Deficiency in Plants by Analysing its Bio - Potential Signals
3	024306	Samir Saha	Ancient Indian Veterinary Practices: An In - depth Study of Animal Health with a Focus on the Care of Cows, Horses, and Elephants
4	104134	Satyajit Sarkar	Utilization of CTC Tea Waste as a Sustainable Feed Alternative for Carp Aquaculture: Impact on Growth, Health and Environmental Management
5	120100	Shakil Ahmed	A Novel Approach For Efficient Processing Of Agricultural Data Using A Common Subexpression Elimination (CSE) Algorithm - Based Finite Impulse Response (FIR) Filter
6	041552	Srijayee Hazra	Assessment of soil moisture distribution and hydraulic characteristics in the Terai Region of West Bengal
7	085948	Subhas Barman	A Blockchain - based Solution for Certification of Sustainable Organic Tea Production
8	124314	Sujit Sarkar	Lab to Land Technology Development and Transfer Model for Reviving Darjeeling Mandarin Cultivation in West Bengal
9	101714	Sumana Balo	Enhancing Quality and Yield of Green Gram through Phosphorus and Lime Application in Acidic Soils of the Terai Region, West Bengal: A Step Towards Ensuring Food Security and Nutrition
10	104651	Sumitra Pal Karmakar	Formulation and Evaluation of Diversified Tea - Based Value - Added Products for Enhancing Resource Utilization and Sustainability in the Tea Industry

## Technical Session 12

Subject - Biotechnology

Date: 25.01.2025

Time: 12.15 PM - 2.45 PM

Venue: Room 4

**INVITED LECTURE: Dr. Sumpam Tangjang**  
*Endolichenic Fungi: A promising frontier in fungi research*

Sl No.	Application No.	Name of the Presenting Author	Title of the Abstract
1	104714	Akansha Subba	Identification of Novel Inhibitors Against Helicobacter Pylori: A Validation Through Docking, Dynamics, and ADME Approach
2	123035	Enish Kujur	Green synthesis and bioactivity assessment of silver nanoparticles synthesized from Erigeron karvinskianus extracts
3	073441	Namrata Mitra	Screening of dual-target inhibitors from Asparagus racemosus targeting monkeypox virus: A docking, QSAR and dynamics approach
4	054257	Rituporna Das	Isolation and Characterization of Rhizosphere bacteria from an Evergreen Spice tree
5	052255	Rounak Chourasia	Discovering novel, multifunctional peptides within the peptidome of fermented chhurpi cheese from the Sikkim Himalayan region
6	054802	Sagnik Sarkar	Identification of saponins isolated from Aegle marmelos fruit's peel and evaluation of their various activities along with potential applications
7	094255	Saurav Kumar Mishra	Screening of Plausible Inhibitors of HIV via Integrating Docking and Pharmacodynamics Approach
8	083127	Sneha Roy	Unveiling the Antiviral Activity of Artemisia annua to Combat Dengue Virus: A Pharmacodynamics Approach
9	053304	Soumyajit Das	In silico inquest reveal the efficacy of Usnea longissima (a tropical lichen) against ovarian cancer
10	064453	Tabsum Chhetri	Identification of Potential Nipah Virus Inhibitors from Glycyrrhiza glabra via Integrated Network Pharmacology and Molecular Docking Approach

### Technical Session 13

#### Subject - Botany

Date: 25.01.2025

Time: 12.15 PM - 2.45 PM

Venue: Room V4

Sl. No.	Application No.	Name of the Presenting Author	Title of the Abstract
1	114724	Raja Ghosh	Biomonitoring and remediation of copper oxide nanoparticle – an emergent water pollutant using <i>Azolla filiculoides</i>
2	014823	Sagarika Ray	Neuroprotective potential of Sand Ginger: Novel Targets for Neurodegenerative Diseases
3	035527	Sarda Subba	Seasonal phytochemical alterations in <i>Rhododendron arboreum</i> Sm. leaf to sustain the frigid weather condition during winter at Sandakphu, West Bengal
4	105622	Soumita Bhattacharjee	Brewing a Healthy Future: Yeast Isolation, characterisation and Toxicological Assessment of Eu, an endemic Beverage of the Toto Tribe, India
5	124310	Sudip Some	Nature's Green Treasure: Unveiling the Nutritional and Medicinal Power of Wild Leafy Vegetables at Karala Valley Tea Estate of Jalpaiguri District, West Bengal
6	012530	Sujit Mondal	Rattans of West Bengal: Survey, Taxonomic Identification and Monographic studies
7	115048	Sutapa Datta	Chemical and antidiabetic profiling of <i>Nakima</i> ( <i>Tupistra clarkei</i> Hook.f.), a traditional food from eastern Himalayan region
8	062737	Suvojeet Mukherjee	Phytosociological study of herbaceous vegetation in tea plantation of Terai region of Darjeeling district

**Technical Session 14****Subject - Chemical Sciences****Date: 25.01.2025****Time: 12.15PM - 2.45 PM****Venue: Room V1**

<b>Sl. No.</b>	<b>Application No.</b>	<b>Name of the Presenting Author</b>	<b>Title of the Abstract</b>
1	125619	Salim Ali	Synthesis of PEG-Pt@Mn <sub>3</sub> O <sub>4</sub> Nanozyme Destruction of Antibiotic drug resistant Bacteria
2	054905	Saranita Roy Chowdhury	Cp*Ir(III) Catalyzed solvent free synthesis of nitrogenous heterocycles using acceptor less dehydrogenative coupling (ADC) Strategy.
3	104822	Soumen Kuila	Co-assembly of NMI-conjugated Dipeptides and Their Chirality Mediated Recognition
4	063319	Sriparna Roy	Correlating stereo-electronic factors with EPR parameters in S = ½ system
5	124124	Subhadeep Saha	Encapsulation of Vitamin B5 (Pantothenic acid) into α-Cyclodextrin Explored by Combined Experimental and Theoretical Studies
6	090859	Subhadeep Sen	Sunlight driven degradation of organic dyes using MgO-Jeanbandyite photocatalyst
7	104216	Vivekananda Saha	Design, Synthesis, and Anti-inflammatory Studies Of N-Substituted Diaryl Ether Amine derivatives

## Technical Session 15

Subject - Earth Sciences including Geoinformatics and Hydrogeology

Date: 25.01.2025

Time: 12.15PM - 2.45 PM

Venue: Geog. Lab

Sl. No.	Application No.	Name of the Presenting Author	Title of the Abstract
1	073206	Moumita Dutta	Spatial distribution of Flood susceptibility using geospatial data and Analytical Hierarchy Process (AHP) in Eastern Himalayan Foothills, India
2	093934	Niranjan Barman	A study of centerline migration of Torsa river at Cooch Behar Sadar Sub-division of Cooch Behar district, West Bengal
3	065747	Prasanya Sarkar	Regionalizing Sub-Watersheds in the Upper Teesta River Basin, North Sikkim for Flood Management
4	081356	Pulak Barman	A GIS-based spatial assessment of urban social vulnerability in Himalayan urban town, India
5	091610	Rajib Mitra	Riverine Hazards and Livelihood Vulnerability of the Riparian Inhabitants along the Tista River in the Sub-Himalayan West Bengal
6	084819	Saddam Hossain	Baneswar Census Towns: A Rural Transformation from Village to Small Town in Cooch Behar, West Bengal, India
7	085056	Samrat Podder	Channel Dynamics and Their Effects on Land Use and Land Cover in the Teesta River, Jalpaiguri, West Bengal, India, Utilizing Remote Sensing and GIS.
8	085821	Sushanta Das	Spatio-Temporal Analysis of River Bank Erosion and Accretion along the Raidak - II River Using GIS and Remote Sensing Tools
9	104301	Utpal Seal Sarma	Change Detection of River Course and Its Effects on Forest Cover – A Case Study of Jaldapara National Park Area of Torsa River, Alipurduar District, West Bengal, India

## Technical Session 16

Subject - Engineering and Technology Sciences including Emerging Technologies

Date: 25.01.2025

Time: 12.15PM - 2.45 PM

Venue: Room V7

Sl. No.	Application No.	Name of the Presenting Author	Title of the Abstract
1	053325	Medhatithi Paul	ALERT-LINK : GPS and GSM Based Personal Security System - Specially for Women and Children
2	090515	Prem Kumar Oraon	Classification of Microscopic Images using Hyperparameter Optimized Deep Neural Networks: A Survey
3	010616	Rakhi Roy Ghosh	Implementation of Reed - Solomon Encoder using Ternary Based Arithmetic Circuits for Digital Communication
4	040141	Samir Das	Evaluation of the Optimized Operational Plan of the Municipal Solid Waste Management (MSWM) System Using Cost Based Linear Programming (LP) Model
5	100239	Shreya Sarkar	Iris Segmentation of CASIA.v4 Dataset Using NAS - UNet for Enhanced Biometric Accuracy
6	075430	Shreyan Majumdar	Semantic Segmentation in Biomedical Imaging: A Survey
7	081552	Subhajit Roy	Systematic Study on Advantages of Installing a Solar - Powered EV Charging Station at Workplaces in India
8	042051	Subhojit Ghosal	Implementation of Sustainable Manufacturing Technology using Circular Economy
9	114810	Swarnadeep Saha Poddar	Intelligent Traffic System

## Technical Session 17

### Subject - Environmental Sciences including Climate Change

Date: 25.01.2025

12.15PM - 2.45 PM

Venue: Room V9

Sl. No.	Application No.	Name of the Presenting Author	Title of the Abstract
1	112742	Palas Samanta	Risk Evaluation in Agricultural Soils of Morigaon District, Assam
2	050807	Raju Sarkar	Assessment of groundwater quality for irrigation and safe drinking water in the Dakshin Dinajpur district, West Bengal, India
3	042455	Saidur Rahaman	Spatio-temporal Variation and Trend Analysis of Rainfall in the Jaldhaka-Torsa Interfluve, Sub-Himalayan North Bengal, India
4	113813	Saini Sultana	RET Plants from Tea Gardens of Sub-Himalayan West Bengal and Their Conservation
5	012126	Sanjoy Barman	Integrated influencing mechanism of urban expansion and land surface properties on ecological environment quality in Jalpaiguri Planning Area, West Bengal, India
6	113915	Souraditya Chakraborty	Ecological Assessment and Conservation Strategies for the Mahananda-Kolabari-Tukriajhar Elephant Corridor in Northern West Bengal
7	094926	Sumit Biswas	Landslide Occurrences and Community-Based Risk Reduction Along the National-State Highways Adjacent to Lesser Himalayas: Research Insights
8	113431	Vivek Chettri	Evaluation of Biomass and Carbon Sequestration in West Bengal Tea Plantations

## Technical Session 18

Subject - Physical Sciences

Date: 25.01.2025

Time: 12.15 PM - 2:45 PM

Venue: Room V3

Sl. No.	Application No.	Name of the Presenting Author	Title of the Abstract
1	033007	Pratik Debnath	Study of CsPbBr <sub>3</sub> /MoS <sub>2</sub> double-absorption layer perovskite solar cells and optimization of their operational mechanism using SCAPS-1D
2	122318	Rakesh Ram	Development and investigation of next generation glassy electrolyte for their mixed alkali effect with improved characteristic properties
3	115049	Sabyasachi Ray	Orbital Phase-Resolved spectral analysis of LSI +61°303 with NICER and XMM-Newton Observations
4	022956	Soumya Sarkar	Effect of color reconnection on Transverse Momentum fluctuation in Proton-Proton collisions at the Large Hadron Collider
5	060405	Subham Subba	Bandgap Prediction Modelling for the Absorber Layer in Perovskite Solar Cells using Machine Learning Techniques



## Technical Session 19

Subject - Physiology and Medicinal Sciences including Forensic Sciences

Date: 25.01.2025

Time: 12.15 PM - 2:45 PM

Venue: Room V2

Invited Lecture: Dr. Subhashis Sahu

*Prevalence of Respiratory Impairments among Workers in Informal Sectors: Ergonomic Perspectives*

SI No.	Application No.	Name of the Presenting Author	Title of the Abstract
1	074823	Abhijit Banik	Antiobesity, Antihyperglycemic and Antidepressive Potentiality of Probiotic Yeast <i>Saccharomyces cerevisiae</i> AKP1 in High - Fat Diet-Induced Obese Mice
2	120309	Arpita Das	Investigation of the dual and detrimental effects of anticancer drug - mediated senescence for metastasis promotion
3	122340	Karimul Islam	Health Related Quality of Life (HRQoL) among the Female Population in Rural Areas of Koch Bihar District, West Bengal
4	090115	Rejuan Islam	An Integrated In-Vivo and In-Silico Investigation of <i>Abutilon indicum</i> (L.) Sweet Seed Extract for Therapeutic Potential in Letrozole Induced Polycystic Ovary Syndrome Wistar Rat
5	020436	Sangita Dey	Exploring the effect of litchi aril juice on starved Cancer cells.
6	095140	Soumyadeep De	Mental Health in the Research Community: A Survey Based Study
7	105605	Tapas Das	Multi-Epitope mRNA Vaccine Development for Oropouche Virus: In Silico Analysis and Immunogenic Potential.