



INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY RESEARCH METHODOLOGY & IPR 2023
(ICMRM – 2023)

October 12-13, 2023, Bhairab Ganguly College, Kolkata-56

Technical Sessions

Science & Technology - I

**Chairs: Prof. Gurunath Mukherjee, Former Sir Rashbehary Ghosh Chair Prof. of Chemistry, CU
Dr. S. Dewan, Associate Professor, Bhairab Ganguly College
Co-Chairs: Dr. S. Dhara & Dr. P. Biswas, Bhairab Ganguly College**

October 12, 2023

1430 - 1650 hrs.

Parallel Session (Alapan Auditorium)

Sl. No.	Paper ID	Author(s)	Paper Title
1	PS1	Amitava Sarder	Boundary Between Reality and Virtual Reality Concerning Human Perception-A Fundamental Perspective Through Theoretical Visualization
2	PS2	Richarj Mondal	Theoretical Modeling for Ultrafast Pump-Probe Reflectivity Measurement
3	PS3	Madhukrishna Chakraborty and Subenoy Chakraborty	Geometry And Physics Behind Space-time Singularity: A Brief Account of Raychaudhuri Equation
4	PS4	Prosenjit Roy Chowdhury, Mousumi Das, Pranabesh Pratihar, Biloy Biswas, Bidisha Biswas	A Novel Loss-Dispersion Optimization Study of Some Optical Fiber Material Combination
5	PS5	Dr. Sunirmal Kundu	Some consequences of Banach fixed point theorem and their application to Fredholm integral equation
6	PS6	Monojit Ray, Amit Kumar Kundu	River Water Quality Assessment in terms of Pesticides: A Case Study in West Bengal
7	PS7	Anupam Pramanick, Barun Das, Nirmal Saha, & Debabrata Bhadra	Exploration and Analysis of Optical Molecular Spectroscopic Properties in ZnS and ZnS-ZnO Nanocomposites
8	PS8	Apurba Kumar Nayek, Bidyut Halder, Dirtha Sanyal and Mahuya Chakrabarti	Theoretical prediction of magnetic properties of β -Ga ₂ O ₃ by inducing defects
9	PS9	Tapash Debnath, Monojit Ray	Annual Variation of Physico-Chemical Parameters of Kopai River Water: Feb 2022 – Jan 2023
10	PS10	Dwitiya Banerjee, Subho Roy, Alapan Mitra and Ayan Kanti Pradhan	A Novel Cylindrical Cavity Resonator For Characterization Of Complex Dielectric Permittivity Of Some Low-Loss Materials At 8.686 GHz Using HFSS Simulation Software
11	PS11	Santosh Nandi	Decomposing the Agent-based Influences on Composite Multi-dimensional Vulnerability: A Fuzzy-Stochastic Analysis with the help of Artificial Intelligence
12	PS12	Arijit Ghosal, Ashik Ikbal, Payal Sengupta, Ruma Ray	Enhanced Performance of Flexible Piezoelectric Generator Using BiFeO ₃ Embedded PVDF Films
13	PS13	Susmita Das, Preetam Chowdhury, Debabrata Bhadra	Preparation of PVDF/GO nano composite films exhibiting enhanced dielectric properties
14	PS14	Swagata Dey, Sourav Ghosh, Vedatrayee Chakraborty	Modeling Of a Transistor Laser Based on GeSn / SiGe Sn Quantum Well for High Frequency Communication Using SILVACO_TCAD
15	PS15	Shouvik Sadhukhan, Shirsendu Sarkar, Debabrata Bhadra and C. S. Narayanamurthy	Comparative Analysis of PVDF Thin Films with Varied Geometric Phases and Shift Algorithms
16	PS16	Bidisha Biswas	Dielectric Resonator Antenna used as Sensor to Determine the Permittivity of Liquid and Solid
17	PS17	Sisir Debnath	Bio-Catalytic Formation of Peptide Nanomaterials Using Non-Equilibrium Self-Assembly
18	PS18	Prosenjit Sarkar	Crossover from First-order to Second-order Ferromagnetic Phase Transition with External and Internal Perturbations



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19	PS19	Dr. Nilangshu Acharya	Nanofluid/ Hybrid Nano fluid: A new creation of Nano technology
20	PS20	Anirban Bose	A semi-classical fluid model from Wigner-Boltzmann Equation with all higher order quantum correction
21	PS21	Durjoy Roy, Saurabh Biswas, Swani Chatterjee, Suryashmi Chakraborty	Design of a Low-Cost Handheld Remote Detection System for Harmful Gases
22	PS22	Rupak Bhattacharjee	E-waste management - a great challenge to protect our planet from catastrophe!
23	PS23	Dipankar Laya, Subenoy Chakraborty	No ether Symmetry Analysis In f (T, TG) Gravity Theory: A Study of Classical Cosmology
24	PS24	Subho Roy, Rudra Sarkar, and Ayan Kanti Pradhan	Synthetization and Electro-Magnetic Characterization of M-type Barium Hexaferrite (BaFe ₁₂ O ₁₉) at X-Band: A brief review
25	PS25	Shriton Hembrom	Classical and Quantum Cosmology in Brans-Dicke Cosmological Model: A No ether Symmetry Approach

Bio-Sciences & Interdisciplinary Research - I

**Chair: Prof. (Dr.) Tanmoy Rudra, Exe Secretary, CIU, New Delhi & Former Pro VC
Co-Chairs: Dr. S. Shome & Dr. R. K. Grewal, Bhairab Ganguly College**

October 12, 2023

1430 - 1650 hrs.

Parallel Session (E-Class Room, Gr. Floor)

Sl. No.	Paper ID	Author(s)	Paper Title
1	BS1	Sity Artina, Prottyusha Banerjee, Srishti Rakshit, Bidisha Kundu, Aniruddha Mitra	Monitoring the diversity of birds at Sarojini Naidu College for Women, Kolkata
2	BS2	Saptarshi Chatterjee	Therapeutic Potential of Phytochemicals against Hepatotoxicity
3	BS3	Riju Jati and Sumana Saha	Gold Nanoparticles: A Magic Bullet to Treat Cancer
4	BS4	Ritam Chatterjee and Sujata Law	Hematopoietic Disorders and Alteration of Classical and Hematopoiesis Specific p53 Cascades
5	BS5	Rajarshi Ghosh, Poulisha Bandyopadhyay	Scorpion Venom as Therapeutics and Their Applications in Potent Drug Discovery
6	BS6	Samya Chakraborty, Indrani Banerjee and Sumana Saha	An Assessment Of Phytoplankton And Zooplankton Diversity In Relation To Pond Water Quality Collected From Different Sampling Sites Of South Dumdum, North 24 Parganas, West Bengal
7	BS7	Aniruddha Mitra	A Simple Set-up for Recording the Locomotion of Drosophila and Other Insects
8	BS8	Mehbur Rahaman Shaikh, Subharthi Pal	Role of Oncolytic viruses (OVs) in cancer therapy: A Review
9	BS9	Debroop Basu, Maitrayee Sarkar, Sisir Nandi, Asmita Samadder	To Explore EGFR and FGFR Targets and Design of Inhibitors Targeting Cancer
10	BS10	Rituparna Das, Dr. Subharthi Pal	A Study on the Socio - Economic Condition of Fishermen of North 24 Parganas, West Bengal, India
11	BS11	Dr. Saurav Shome and Subham Acharya	Cellular and Molecular Aspects of Mammalian Heart Development
12	BS12	Swagata Sarkar and Dr. Ajeet Jaiswal	Effect of Urbanic lifestyle and dietary pattern of Pregnant women and their Newborn babies: An Anthropometric Measurement
13	BS13	Munazzalah Zarrin and Swapan Mandal	Future Prospects of Hybrid Seed Production in Commercial Staple Crops in India



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14	BS14	Debasmita Moyra and Samridha Chatterjee and Saptarshi Chatterjee	Waste Management and Health Hazards with Special Reference to Cancer
15	BS15	Biswadeep Choudhuri and Gargi Sardar	Study of Protein Adsorption in Silver Nanoparticle Embedded Polyvinyl Alcohol Composite Films
16	BS16	Triparna Roy, Dipanwita Sarkar Paria, Soumendranath Chatterjee, Shubhajit Saha	Present Status of Epizootic Ulcerative Syndrome and Management Strategies: A review
17	BS17	Sanaya Mukherjee, S Sharda, Chittra Dutta	Hidden Threat To Humanity: Nipah Virus
18	BS18	Shilpa Ghosh, Suryasarathi Kumar, Megha Bag, Nayanika Chattopadhyay, Saikat Naskar, Sohini Samanta	Disease 'X': The upcoming pandemic?
19	BS19	Souvik Chakraborty	Employing in-silico Methodology to Identify Potent Phytoconstituent from Fumaria Vaillantii for D2 Receptor Antagonism – A new way towards Schizophrenia Treatment
20	BS20	Adipta Chakraborty, Subhajit Bisui and Anulipi Aich	Bioaccumulation and Biophysical Properties of Guppy Fish (<i>Poeciliareticulata</i>) exposed in composite tannery effluent: An eco-toxicological approach

HUMANITIES & SOCIAL SCIENCES - I

**Chairs: Prof. Debaprasad Bandyopadhyay, Visiting Professor, ISI Kolkata
Dr. Prasenjit. Biwas, Associate Professor, Bhairab Ganguly College**

October 12, 2023

1430 - 1650 hrs.

Parallel Session (Virtual Class Room)

SI No	Paper ID	Author(s)	Paper Title
1	HU1	Mohul Bhattacharya	Urbanization and Peace; Observing Tess d'Urbervilles
2	HU2	Laki Molla	Vision of a Unified Nation in a Pluralistic Society: Reading Bhudeb Mukhopadhyay's Swapnalawdha Bharatbarsher Itihas (Imagined History of India)
3	HU3	Krishna Chandra Malik	A Raisin in the Sun: Conflict and Tension in Identity- Reading from Environmental Justice
4	HU4	Sourabh Adhikari	বঙ্গদেশে উইলিয়াম কেরীর খ্রীষ্ট ধর্মের প্রচার
5	HU5	Sharanya Bhattacharyya	Reimagining Gender and Sexuality in 'Sherlock': Watson, Adler, and Evolution
6	HU6	Payal Saha	Exploring "Feminine Mystique" through Digital Landscape of India – A Critical Study of Nisha
7	HU7	Janki Singh	Cartography of Displacement and Immigrant Experience in Michael Ondaatje's novels
8	HU8	Dr. Sukla Kisku	The Status of Female Body and Language: A Discussion from the Perspective of Kamala Das
9	HU9	Manidip Chakraborty	Re-Organizing the Literature-Based Domains: The NEP and the Lost Interest in the Canonical Text
10	HU10	Pankaj Maishal	পাণিনিব্যাকরণমজ
11	SS1	Arghya Saha	A Study on the Interpretation of Behaviour and Interpersonal Skills of Employees in Heavy Metal Industries of West Bengal
12	SS2	Dr. Prasenjit Biswas	Caste & Electoral Politics in West Bengal
13	SS3	Saptarshi Chakraborty	Revisiting The 19th Century Europe As The Real Mother Of Our Present Day
14	SS4	Dr. Aftabuddin Ahammad	TERRORISM An International Problem



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15	SS5	Sk. Makhleswar Rahaman	Revisiting the Bengal Muslim Politics through the lens of the Millat
16	SS6	Susmita Bhattacharjee	Well-Being of Women Traders in Vegetable Product Marketing
17	SS7	Dr. Baishakhi Nag	Voices Unheard: Media's Path to Equality, Diversity and Inclusivity
18	SS8	Dr. Surajit Sengupta	Efficiency Analysis of the Indian Steel Industry: A Malmquist Approach
19	SS9	Krishanu Ghosh	আদিবাসী মহাসভা : বাউখন্ড আন্দোলনের উষা কাল (১৯৩৮-১৯৫০)
20	SS10	Sudipta Purkait	Virtual Reality (VR): A Philosophical Approach
21	SS11	Pallavi Das	Climate Displacement: Exploring the Politics of Climate-Induced Migration
22	SS12	Namreen Asif VA	The SWOC Factors Influencing Cryptocurrency Wallets: A Comprehensive Study of Their Strengths, Weaknesses, Opportunities, and Challenges
23	SS13	Vijay Anand Sah	The Impact of Adoption Of Ifrs On Earnings Management: A Comparative Study On Select Indian and Uk Pharmaceutical Companies
24	SS14	Subhranil Som, Asik Rahaman Jamader	Digital Transformation and its use in the Smart Cities: A Modern Architecture (MA) Approach

Science & Technology - II

Chairs: Prof. Gurunath Mukherjee, Former Sir Rashbehary Ghosh Chair Prof. of Chemistry, CU

Dr. T. Mukherjee, Bhiarab Ganguly College

Co-Chairs: Dr. B. Das, JISASIR, Dr. S. Guha, Bhiarab Ganguly College

October 13, 2023

1400 - 1600 hrs.

Parallel Session (Virtual Class Room)

Sl. No.	Paper ID	Author(s)	Paper Title
1	PS26	Barun Das, Partha Halder, Swapnendu Dutta and Arghyadip Bhowmik	Facile Strategy of Producing Electrically Conducting Paste from a Unique Copper (II) based Metal-Organic Complex
2	PS27	Nirmal Saha, Susmita Das, Debabrata Bhadra	Dielectric and Morphological Investigations of silver nanoparticles doped VA/PVP Polymeric Composites for Electronic and Optoelectronic Applications
3	PS28	R. Majumdar, S. Lahiri, D. Roy Chowdhury, R.K.Saha, A.N.S.Iyengar, M.S.Janaki	Investigation of the effect of dipolar magnetic field on DC discharge glow plasma
4	PS29	Dr. Payal Biswas and Dr. Pratima Biswas	Named Entity Recognition using co-occurrence resolution for Natural Language Processing
5	PS30	Md G. Masud	Dielectric, Magnetic and Magnetoelectric Properties of La ₂ NiMnO ₆ Double Perovskite
6	PS31	Dr. Sankha Das	Use of Solar Power for Disaster Relief
7	PS32	Nikhilesh Sil	Mathematical Modeling and Control Strategies for Cysticercosis: Insights into Disease Dynamics
8	PS33	Dr Samiran Banerjee and Dr Rupak Bhattacharyya	An inside on Biomathematical Methodologies
9	PS34	Mr. Partha Sarker	A Comparative Review and Analysis on Machine Learning Assisted Nanobots in Oncological Treatment Using Nanomedicine, a Revolution in Medical Science
10	PS35	Dr. Pratima Biswas and Dr. Payal Biswas	Privacy issues in Location-Based Services
11	PS36	Dr. Swarup Manna	A Concise Account on Living Supramolecular Polymerization
12	PS37	Soma Mukherjee and Susinjan Bhattacharya	Facile Strategy of Producing Electrically Conducting Paste from a Unique Copper (II) based Metal-Organic Complex



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13	PS38	Shubhendu Dhara	Synthesis of Functionalized Benzofulvene from Alkyne
14	PS39	Dr. Samit Majumder	Chemodosimetric mechanistic insight through trapping intermediate for selective recognition of picric acid in aqueous medium by a dinuclearCd(II) based molecular complex
15	PS 40	Tanvee Manocha, Dr. Rajashree Roy	Analyzing Cognitive Functioning through the Lens of Web3 Technology: A Modern Approach
16	PS41	Sachin Kumar Shaw, Subhranil Som	Multi-Tenant Provisioning for Quantum Key Distribution Networks with Deep Learning and Hybrid Neural Network
17	PS42	Sachin Kumar Shaw, Abir Barman, Muskan Sinha	Classification Using Neural Network and Genetic Algorithm
18	PS43	Bijoya Mukherjee, Nidhi Prakash, Monojit Chowdhury, Manisha Maity, Somsubhra Gupta	Nutritional Research Methodology Analytics
19	PS44	Pramiti Roy, Subir Gupta, Tridib Chatterjee, Kallal Banerjee and Somsubhra Gupta	Extended Analytics in Research Methodology across various verticals: A review
20	PS45	Pramiti Roy, Subir Gupta, Tridib Chatterjee, Kallal Banerjee and Somsubhra Gupta	A Generic Platform-independent Research Methodology Framework Converging to Product Commercialization
21	PS46	Madhumita Mukherjee, Somsubhra Gupta	Illustrative Accreditation Research Methodology
22	PS47	Dr. Anuva Samanta	Selective encapsulation of an ICT Probe, N, N-dimethylaminonaphthyl-(acrylo)-nitrile, in Biomimetic and Supramolecular cages

Bio-Sciences & Interdisciplinary Research - II

Chairs: Dr. Somsubhra Gupta, Dean, SVU

Dr. T. Maiti, Assistant Prof., Bhiarab Ganguly College

Co-Chair: Dr. Anulipi Aich, Bhiarab Ganguly College

October 13, 2023

1400 - 1600 hrs.

Parallel Session (Alapan Auditorium)

SI No	Paper ID	Author(s)	Paper Title
1	BS21	Shreshtha Das, Priyadarshika Sarkar	Potential Cure Of Alzheimer's: RNA Editing
2	BS22	Deeya Ghosh Dastidar and Anulipi Aich	Water quality assessment of the River Ganges along its course in and around the Kolkata city: an approach towards the pollution prevention
3	BS23	Sharmila Soren, Moitreyee Chakrabarty, Rajib Biswas and Tapajit Bhattacharya	Determination Of Traditional Ethnomedicinal Systems In Selected Tribal Villages Of Paschim Bardhaman District, West Bengal, India
4	BS24	Suvam Sarkar, Soma Sett, Saubhik Sengupta	Identification of biomarkers for predicting up-front Carboplatin Paclitaxel resistance and identifying targets that can reverse chemo-resistance in ovarian cancer: An in-silico approach



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5	BS25	Senjuti Banerjee, Kasturi Sarkar	Anti-Diabetic Property of Some Plants from Sundarban, West Bengal
6	BS26	Nilimesh Majumder and Poulami Ghosh and Saptarshi Chatterjee	Anthropogenic Effects Driving Sixth Mass Extinction
7	BS27	Sushmita Bhowmick	Identification Of potential key genes related to Alzheimer's disease and designing of gRNA for the gene MAP2K7 using CRISPR-Cas9
8	BS28	Swastika Mandal, Saptarshi Chatterjee	Diminution Of Polycyclic Aromatic Hydrocarbons (PAHs) & Reduction of Its Carcinogenic Influences: A Systematic Approach to Alleviate Emerging Hallmark of Cancer
9	BS29	Subhamoy Das, Sonjay Dalapati, Deepshikha Mandi & Shazia Amruna	Morphometric and Meristic Analysis of Some Puntius Species in Purba Medinipur District of West Bengal, India
10	BS30	Dr. Saurav Shome, Debopriya Saha and Subham Acharya	Misuse of Intellectual Property Rights: A Crime
11	BS31	Sreetama Dam; Surekha Chowdhury; Subhamoy Das	Large Scale Afforestation may have Positive Impacts on Carbon Sequestration and Biodiversity Recovery
12	BS32	Dr. Rupa Sanyal	A brief overview of Asparagus racemosus Wild. and its Ex-situ conservation in "Niramay Nikunja", Bhairab Ganguly College, West Bengal
13	BS 33	Amit Kumar Ghosh, Debopriya Saha and Souvik Acharya	Effect of Antibiotic Resistance gene in Lactic Acid Bacteria upon exposure to Foodborne Disease
14	BS 34	Dr. Rajashree Roy & Sreya Khan	Role of Digital Detox in Electronic Screen Syndrome in Children
15	BS 35	Kanjam Manocha, Subhranil Som	An Analytical Review of Protein Engineering for Sustainable Agriculture

HUMANITIES & SOCIAL SCIENCES - II

Chair: Dr. A. K. Sil, Former Associate Professor, Bhairab Ganguly College

Co-Chair: Dr. T. Chatterjee & Dr. R. Islam, Bhairab Ganguly College

October 13, 2023

1400 - 1600 hrs.

Parallel Session (E-Class Room)

Sl. No.	Paper ID	Author(s)	Paper Title
1	GE1	Jeet Das	Analysis of Basin Geomorphometry; A case study in Ajay River Basin
2	GE2	Dr. Shrinwantu Raha, Bikash Ghosh, Ruchira Gupta	Tourism as a Potential Livelihood of Drought Prone Bankura District, West Bengal: A Geographical Analysis
3	GE3	Shubhanita Dasgupta Chakrabarty, Dr. Garre Satya Srinivas Gopinadh, Suhel Sen	Groundwater Potentiality of Upper and Upper Middle Subarnarekha Basin: An Appraisal
4	GE4	Trinankur Ghosh	Impacts on ENSO & IOD on Tropical Cyclone Activity in North Indian Ocean & Long-Range TC forecast on the basis of That
5	GE5	Sushmita Chatterjee	River Bank Erosion and its Socio-Economic Impact: A Case Study on River Teesta
6	GE6	Aditya Ray and Hrishabh Mandal	Emerging Paradigms in Water Quality Research
7	GE7	Santanu Samanta, Shankho Jyoti Bhattacharjee	Spatial comparison on water logging: Risk to Resilience with special reference to Kolkata Metropolitan City, West Bengal, India and Tokyo, Japan
8	GE8	Santanu Sanpal	Making the Durga idols more environmental-friendly



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9	GE9	Subhra Ghorai	Bar Morphology And It's Change: A Case Study Of Bars Of Baspa River Near Chitkul Village At Himachal Pradesh In India
10	GE10	Mrs. Sunita Sarker	Sustainable Remote Work Revolution: Exploring Professional Transition and Skill Adaptation in the Post COVID-19 Era
11	GE11	Ms. Monisha Hembram	Socio- economic condition of Brick Kiln Workers: A comparative study between Masagram Village in Memari Block I & Makhla in Uttarpara
12	LS1	Shibananda Mridha	Research Trends in International Journal of Social Research Methodology: A Bibliometric Study
13	LS2	Mintu Halder	Empowering Communities: The Role of District Libraries in West Bengal's E-Governance Landscape