

**Selected abstracts of the 5th Regional Science and Technology Congress - 2022 to be held on 11th and 12th January 2023 at University of Gour Banga, Malda, W.B.**

<b>Presenting Author's name</b>	<b>Address/Affiliation with phone number and email ID of presenting author</b>	<b>Title of the Abstract</b>
Dr. Shyam Das	Department of Physics, Associate Professor, Malda College, Malda-732101, W.B.	Exploring the impact of the curvature parameter (K) on anisotropic compact stellar objects satisfying Vaidya-Tikekar (VT) geometry and polytropic type equation of state
Moumita Das	Assistant Professor, Department of Physics, Malda College, Malda, -732101, W.B.	Study of Non-Classical Effect in Non-Degenerate Four Wave Mixing Process
Dilip K Modak	Centre for the Interdisciplinary Research and Applications, 45/2, Santoshpur Main Road, Kolkata-700 075; Email: dilip.modakkol@gmail.com	A Note on the Movion Theory
Samarendra Nath Saha	Department of Physics, Raiganj University, Uttar Dinajpur - 733134 , W.B.; Email: samar.phy@gmail.com	Structure, Charge Transport properties, Dielectric Properties and Leakage Current Analysis of Sm <sub>2</sub> CuMnO <sub>6</sub> Nanomaterial
Dr. Tanmay Choudhury	Assistant Teacher, Hemtabad Adarsha Vidyalaya (HS); E-mail: tanmay.choudhury@gmail.com	Crystal Structure and Mesogenic Behaviour of Two Fluorene Derivatives
Prosenjit Choudhury	Dr. Meghnad Saha College, Itahar, Uttar Dinajpur, W.B.; Email: prosenjitchohury100@gmail.com	Investigation of organic photo voltaic cell with Graphene and organic dye as active materials
Avijit Talukdar	2Department of physics, University of North Bengal; E mail: avijitat.phy@gmail.com	A comparative study of different electron transport layers in lead free perovskite based solar cells through conduction band offset engineering
Suchismita Sen	Department of Physics, Raiganj University, Raiganj; Email: suchismita0101@gmail.com	Characterization of Ion-sensitive Field Effect Transistor: A Simulation Study
Debtanu Ghosh	Department of Physics, Vivekananda Mahavidyalaya, Haripal, Hooghly 712405, W.B. ; Email: drchatterjee@yahoo.co.in	Dislocation substructure analysis in large strain deformed cold-rolled Aluminium using X-ray diffraction peak profile analysis

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Sujay Munshi	Department of Physics, Raiganj University, Raiganj, Uttar Dinajpur 733134; Email : deb.apurba@gmail.com	Synthesis of Cu and Se Doped SnO <sub>2</sub> Nanoparticles and its Structural, Optical and Antibacterial Characterization
Dipa Saha	Department of Physics, University of Gour Banga, Malda-732101, W.B.; Email: dipa.phy91@gmail.com	Geometrical Properties of the Epidemic Outbreak Clusters in a Random Geometric Graph Based on Susceptible-Infected-Removed (SIR) Model
Mrs. Dalia Saha	Dept. of Physics, University of Kalyani, West Bengal, India - 741235, Dept. of Physics, Jangipur College, Murshidabad, W. B., Pin- 742213, Email: daliasahamandal1983@gmail.com	The role of divergent term in higher order theory of gravity
Arup Karmakar	Dept. Of Physics, Balurghat College, Balurghat, D/Dinajpur, Pin-733101, W.B.; Email: arupk2@gmail.com	Defect mediated room temperature magnetic ordering in Thulium doped Cerium Oxide
Dr. Biplab Pal	Department of Physics, Kaliachak College, Malda, West Bengal - 732201;E-mail: biplabpal2008@gmail.com	Electronic spectrum of a fractal geometry with hierarchical magnetic flux distribution