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| evsjv‡`k **wek¦we`¨vjq gÄyix Kwgkb** | **evsjv‡`k wek¦we`¨vjq gÄyix Kwgkb**  University Grants Commission of Bangladesh  AvMviMuvI †k‡i evsjvbMi, XvKv-1207  website : www.ugc.gov.bd | **logo** |

কমিশনের রিসার্চ সাপোর্ট এন্ড পাবলিকেশন ডিভিশনের বিজ্ঞান ও প্রযুক্তি শাখার ২০২২-২৩ অর্থ বছরে প্রাপ্ত ভৌত বিজ্ঞান বিষয়ক মোট ৩৮টি গবেষণা প্রকল্প প্রস্তাব কমিশন নির্ধারিত সূচকের ভিত্তিতে কর্মশালার মাধ্যমে বিশেষজ্ঞ কর্তৃক মূল্যায়ন করা হয়। বিশেষজ্ঞ কর্তৃক গ্রহণযোগ্য ২৮টি ও গ্রহণযোগ্য নয় ১০ টি গবেষণা প্রকল্প প্রস্তাবের তালিকা নিম্নরূপ:-

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| **µwgK bs** | **cÖKí AvnŸev‡bi eQi** | **M‡elYv cÖK‡íi wk‡ivbvg** | **cÖKí cwiPvj‡Ki bvg I wVKvbv** | **gšÍe¨** |
|  | 2022-2023  (52) | Impact of dissipation, chemical reaction on MHD free convection and mass transfer flow with the perence of oscillating porous plate, constant heat flux and ion-slip currents in a revolving scheme | Prof. Dr. Md. Delowar Hossain  Department of Mathematics. Chittagong University of Engineering and Technology, Chattogram-4349, Bangladesh.  Cell: 01731502899  Email: delowar@cuet.ac.bd | গ্রহণযোগ্য |
|  | 2022-2023  (03) | Feedback-evolving games with unconditional cooperators | Dr. Md. Rajib Arefin  Assistant Professor  Department of Mathematics  Faculty of Science  University of Dhaka  Cell: 01623648104  Email: arefin.math@du.ac.bd | গ্রহণযোগ্য নয় |
|  | 2022-2023  (43) | Numerical and Mathematical Analysis of Heterogeneous Reaction-Diffusion Systems with Applications | Dr. Samir Kumar Bhowmik  Department of Mathematics  University of Dhaka  Cell: 01711977020  Email: samir@du.ac.bd | গ্রহণযোগ্য |
|  | 2022-2023  (37) | “Social challenges of secondary school students in Rajshahi division, Bangladesh: A cross-sectional study” | Dr. Md. Monsur Rahman  Professor  Department of Statistics, University of Rajshahi  Rajshahi-6205, Bangladesh  E-mail:monsur\_st\_ru@yahoo.com  01716438485 | গ্রহণযোগ্য নয় |
|  | 2022-2023  (41) | Development of an Artificial Intelligence (AI)-powered Decision Support System for Osteoporosis Risk Assessment in the Adult Bangladeshi Population Based on Local Health Care X-Ray Imaging | Md. Shamim Reza  Department of Statistics, Pabna University of Science and Technology, Pabna-6600  Cell: +8801717725553  Email: [shamim.reza@pust.ac.bd](mailto:shamim.reza@pust.ac.bd) | গ্রহণযোগ্য নয় |
|  | 2022-2023  (39) | “Facebook addiction among University students: A survey in Rajshahi City” | Prof. Dr. Abu Sayed Md. Al Mamun  Department of Statistics, University of Rajshahi  Rajshahi-6205, Bangladesh  E-mail:mithun\_stat@yahoo.com  Cell- 01718878513 | গ্রহণযোগ্য নয় |
|  | 2022-2023  (14) | Study of the Drug Interaction and Delivery into the Lung Airways by the In Vitro and In Silico Approach | Dr. Md. Zohurul Islam  Assistant Professor  Department of Mathematics,  Jashore University of Science and Technology,  Jashore-7408, Bangladesh  Cell: +8801717964452  Email: [mz.islam@just.edu.bd](mailto:mz.islam@just.edu.bd) | গ্রহণযোগ্য |
|  | 2022-2023  (18) | Phase plane analysis and novel soliton solutions to the nonlinear models through the elegant techniques | S M Rayhanul Islam, Assistant Professor  Department of Mathematics  Pabna University of Science and Technology  Cell: 01719364133  Email: [rayhanulmath@yahoo.com](mailto:rayhanulmath@yahoo.com) | গ্রহণযোগ্য নয় |
|  | 2022-2023  (40) | EXPLORING VACCINE HESITANCY, ACCEPTANCE, AND BEHAVIORAL PATTERNS TOWARDS HUMAN PAPILLOMAVIRUS (HPV) IN BANGLADESH | Dr. K.M Ariful Kabir  Assistant Professor  Dept. of Mathematics Bangladesh University of Eng. And Tech. (BUET) Dhaka, Bangladesh email: [k.ariful@yahoo.com](mailto:k.ariful@yahoo.com),  [km\_ariful@math.buet.ac.bd](mailto:km_ariful@webmail.buet.ac.bd),  Mob: [+8801722852818](callto:+8801722852818) (BD) | গ্রহণযোগ্য |
|  | 2022-2023  (01) | Numerical Simulation of Turbulent Flow around an Irregularly Shaped Airfoil | Dr. Md. Zavid Iqbal Bangalee  Associate Professor  Department of Applied Mathematics  University of Dhaka  Email: zavid@du.ac.bd  Cell: +88 01712044424 | গ্রহণযোগ্য |
| 1. , | 2022-2023  (46) | Outlier Detection using Autoencoder Ensembles in Neural Network | Dr. Sohana Jahan  Associate Professor  Dept. of Mathematics, Faculty of Science, University of Dhaka, Dhaka-1000, Bangldesh  Phone: Office: 9661900, Ext-7070,7071  Cell: +88-01742877021  Email: sjahan.mat@du.ac.bd | গ্রহণযোগ্য |
|  | 2022-2023  (48) | Dynamics and bifurcations of a discrete-time ecological model with fractional derivative | Sarker Md Sohel Rana  Associate Professor  Department of Mathematics  University of Dhaka, Dhaka 1000  Cell: +8801718521785  Email: srana\_math@du.ac.bd | গ্রহণযোগ্য |
|  | 2022-2023  (51) | Optical soliton wave solutions to the Heisenberg Ferromagnetic Spin Chains model: effects of neighboring interaction and uniaxial crystal field anisotropy parameters. | Prof. Dr. Harun-Or-Roshid  Professor, Department of Mathematics  Pabna University of Science and Technology, Pabna-6600.  Cell: +8801753-213813  Res: +8801715-229922  Email: [harunorroshidmd@gmail.com](mailto:harunorroshidmd@gmail.com); [harun\_math@pust.ac.bd](mailto:harun_math@pust.ac.bd) | গ্রহণযোগ্য |
|  | 2022-2023  (53) | Collisional nonlinear acoustic wave phenomena in collisionless plasmas | Prof. Dr. Md. Golam Hafez  Department of Mathematics,  Chittagong University of Engineering and Technology, Chattogram-4349, Bangladesh.  Phone: Office: Ex. 8752  Cell: +8801712340602  Res: Ex. 8852  Email: hafez@cuet.ac.bd | গ্রহণযোগ্য নয় |
|  | 2022-2023  (13) | Hierarchical modeling and machine learning techniques in measuring health systems' capacity to face infectious disease pandemics in nine lower and lower-middle-income countries | Dr. Mohammad Anamul Haque  Lecturer, Department of Statistics,  Shahjalal University of Science and Technology, Sylhet-3114, Bangladesh  Phone: 01716563263  Email: haque-sta@sust.edu  Enamsust82@gmail.com | গ্রহণযোগ্য |
|  | 2022-2023  (34) | Transcriptomics analysis to distinguish molecular signatures for major subtypes of non-Hodgkin lymphomas highlighting their pathogenetic process and drug repurposing | **Dr. Md.**MahmudulAlam,  Professor, Dept. of Statistics,  University of Rajshahi, Bangladesh,  Email: mmalamstat@ru.ac.bd [alam\_stat@ru.ac.bd](mailto:mmalamstat@ru.ac.bd),  Mobile: 01718280496 | গ্রহণযোগ্য |
|  | 2022-2023  (36) | Drought Proneness Scenario at different decade with Markov Chain model: Empirical Investigation from Southwestern part of Bangladesh | Dr. Md. Mostafizur Rahman  Associate Professor  Department of Statistics,  University of Rajshahi, Rajshahi-6205  E-mail: [mostafiz\_bd21@yahoo.com](mailto:mostafiz_bd21@yahoo.com)  Cell: 01735393226 | গ্রহণযোগ্য |
|  | 2022-2023  (06) | Edge Dislocation, Chemical Composition, and Chemical Short-range order effect on Mechanical Properties in Multi-Principal Element Alloys. | Professor Dr. Md. Khairul Alam  Department of Physics  Pabna University of Science and Technology, Pabna-6600  Cell: 01712659746  Email: [drmkalam14@gmail.com](mailto:drmkalam14@gmail.com) | গ্রহণযোগ্য |
|  | 2022-2023  (10) | Synthesis of Waste Prawn Shell Derived Chitosan Nanocomposites With Improved  Magnetic and Electric Properties | Prof. Dr. Jahirul Islam Khandaker  Professor, Department of Physics  Jahangirnagar University, Dhaka-1342  Cell:01752928866.  Email: [jikphy\_ju@yahoo.com](mailto:jikphy_ju@yahoo.com) | গ্রহণযোগ্য |
|  | 2022-2023  (15) | Effect of protactinium inclusion in Th, ThN, and ThC nuclear fuel: A first-principles study | Dr. Md. Humaun Kabir  Assistant Professor  Department of Physics  Jashore University of Science and Technology, Jashore - 7408  Cell:+8801740691319  Email: mhkabir@just.edu.bd | গ্রহণযোগ্য |
|  | 2022-2023  (08) | Development of Microstrip Patch Antenna for Terahertz (THz) Communication Applications | Name: Prof. Dr. Rezaul Azim  Department of Physics, University of Chittagong, Chattogram 4331, Bangladesh.  Cell: 01711122950  Email: [rezaulazim@cu.ac.bd](mailto:rezaulazim@cu.ac.bd) | গ্রহণযোগ্য |
|  | 2022-2023  (09) | Measurement of gravitational lensing signals in the framework of Einstein's general theory of relativity: a step towards precision cosmology | Dr. Md. Rasel Hossen, Lecturer  Department of Physics,  Jahangirnagar University,  Cell: 01325315614  Email: [rasel.hossen@juniv.edu](mailto:rasel.hossen@juniv.edu) | গ্রহণযোগ্য |
|  | 2022-2023  (16) | First Principle Study of the Structural, Optoelectronic and Gas Sensing Properties of Transition Metals Doped CsPbCl3 Halide Perovskite | Dr. Mohammad Julhash Miah  Department of Physics  Comilla University, Kotbari, Cumilla.  Phone: Office:+8802334411215  Cell: 01727151679  Email: mmjulhash@cou.ac.bd | গ্রহণযোগ্য নয় |
|  | 2022-2023  (21) | Influence of sintering aids on the densification, microstructural, electrical transport and magnetic properties of Li-Cu-Mg-Zn ferrites | Dr. Muhammad Samir Ullah  Professor, Department of Physics  Bangladesh University of Engineering and Technology (BUET)  Cell: 01782069938  Email: [samirullah@phy.buet.ac.bd](mailto:samirullah@phy.buet.ac.bd) | গ্রহণযোগ্য |
|  | 2022-2023  (30) | Investigation of Structural, Electrical, and Vibrational Properties of Anti-perovskite Solid Electrolyte R 3 OX (R = Li, Na and X = Cl, Br) | Dr. Md. Shahajan Ali  Associate Professor  Department of Physics,  Pabna University of Science and Technology  Cell: 01323886868  Email: [msali@pust.ac.bd](mailto:msali@pust.ac.bd) | গ্রহণযোগ্য |
|  | 2022-2023  (31) | Synthesis of Plasma Modified Magnetic Biochar Derived from water hyacinth and Its Application in Industrial Wastewater Treatment | Dr. Mohammad Jellur Rahman Professor  Department of Physics, Bangladesh University of Engineering and Technology Dhaka-1000, Bangladesh Mobile: [+88-01552346458](callto:+88-01552346458) | গ্রহণযোগ্য |
|  | 2022-2023  (57) | *In-silico* Screening of Inhibitors Targeting Drug-resistant PfMATE Transporter Protein and Molecular Dynamics Simulation of the Target::Drug Complexes | Dr. Md Lokman Hossen  Assistant Professor of Physics  University of Barishal  Barishal-8254  Office: 0431-2177771-77, Ex-2100  Cell: 01714522418, Res: 017145225418  Email: mlhossen@bu.ac.bd | গ্রহণযোগ্য নয় |
|  | 2022-2023  (38) | Dynamics of pore-evolution in biomembranes and model membranes induced by antimicrobial peptides under osmotic stress. | Dr. Md. Masum Billah  Asst. Professor, Department of Physics (Biophysics Research Division),Faculty of Science, Jashore University of Science & Technology (JUST), Jashore- 7408  Cell Phone: +88017 9456 3397  Email: [mm.billah@just.edu.bd](mailto:mm.billah@just.edu.bd) | গ্রহণযোগ্য |
|  | 2022-2023  (44) | Prediction of the M2AB [M=V, Nb, Ta; A=Ge, Tl, P, Zn, Cd, Cu] borides by the DFT method. | Dr. Md. Ashraf Ali, Professor,  Department of Physics  Chittagong University of Engineering and Technology (CUET), Chattogram  Cell: 01710244220  Email: [ashrafphy31@cuet.ac.bd](mailto:ashrafphy31@cuet.ac.bd) | গ্রহণযোগ্য |
|  | 2022-2023  (47) | Study of structural and photocatalytic behavior of rare-earth ions (Ho, Yb, Y) doped recently synthesized high-quality V2O5 by hydrothermal technique for waste water treatment | Dr. Md. Mohi Uddin  Professor  Department of Physics  Chittagong University of Engineering & Technology (CUET)  mail: [mohi\_cuet@yahoo.com](mailto:mohi_cuet@yahoo.com), [mohi@cuet.ac.bd](mailto:mohi@cuet.ac.bd) | গ্রহণযোগ্য |
|  | 2022-2023  (26) | Star enclosed circular shaped meta-atom sensor based on quality factor measurement for oil adulteration detection | Dr. Md. Rashedul Islam  Associate Professor  Department of Electrical, Electronic and Communication Engineering, Pabna University of Science and Technology, Pabna-6600  Cell: +8801301800401  Email: rashed.ru11@gmail.com; rashed.85@pust.ac.bd | গ্রহণযোগ্য নয় |
|  | 2022-2023  (12) | Echo-friendly Oxides for Renewable Photocatalytic Applications | Dr. Imtiaz Ahmed  Associate Professor  Department of Electrical and Electronic Engineering, University of Dhaka, Dhaka-1000, Bangladesh  Cell: +88-01712782833  Email: imtiaz@du.ac.bd | গ্রহণযোগ্য |
|  | 2022-2023  (28) | AN INTEGRATED GEOPHYSICAL AND GEOLOGICAL INVESTIGATION OF THE NATURAL AND ANTHROPOGENIC HAZARDS IN COX’S BAZAR CITY, BANGLADESH | M. Saiful Islam  Associate Professor  Department of Geology  Faculty of Earth & Environmental Sciences  University of Dhaka, Dhaka 100, Bangladesh  Phone: 880-2-9661920-73 Extension#7327  Fax: 880-2-9667222  Cell: +88 01712294642  msaiful@du.ac.bd | গ্রহণযোগ্য |
|  | 2022-2023  (25) | Evaluation of Engineering Geological and Geophysical Properties of Madhupur Clay Formation for the Ground Subsidence Potentiality Analysis in the Dhaka City | Prof. Dr. A.S.M. Woobaidullah  Department of Geology, University of Dhaka, Dhaka 1000.  Phone: Cell: +8801517310181  Email: woobaid.du@gmail.com | গ্রহণযোগ্য |
|  | 2022-2023  (54) | Spatio-temporal variation of barrier layer thickness and its relationship with the primary Productivity in the norther Bay of Bengal | K M Azam Chowdhury, PhD  Chairman, Dept. of Oceanography, University of Dhaka  & Director, International Center for Ocean Governance (ICOG)  University of Dhaka  Dhaka-1000, Bangladesh Tel: +880-2-9661920 ext.7779  Mobile: +8801678061858  Email: [azam\_oceanographer.ocn@du.ac.bd](mailto:azam_oceanographer.ocn@du.ac.bd), [azamch0188@yahoo.com; icog@du.ac.bd](mailto:azamch0188@yahoo.com) | গ্রহণযোগ্য |
|  | 2022-2023  (45) | Wall-to-wall mapping of structural attributes of Sal forests in Bangladesh through integration of Satellite borne Lidar, Satellite imagery and multi-spectral UAV. | Dr. Md Farhadur Rahman  Dept. of Remote Sensing and GIS  Bangabandhu Sheikh Mujibur Rahman Agricultural University  Email- [farhad.rsgis@bsmrau.edu.bd](mailto:farhad.rsgis@bsmrau.edu.bd)  01722778108 | গ্রহণযোগ্য |
|  | 2022-2023  (42) | Predicting Child Marriage in Bangladesh using Machine Learning Techniques | Md Hasinur Rahaman Khan, PhD  Professor, Institute of Statistical Research and Training (ISRT),  University of Dhaka  Dhaka 1000, Bangladesh  Cell: 01725106661  Res: 01725106661  Email: [hasinur@isrt.ac.bd](mailto:hasinur@isrt.ac.bd) | গ্রহণযোগ্য নয় |
|  | 2022-2023  (20) | A Computational Investigation on the Genetic Influence of Chronic Kidney Disease on Kidney Cancer and Drug Repurposing | Name: Dr. Anjuman Ara Begum  Professor, Dept. of Statistics, University of Rajshahi  Cell: 01556320574/01722622721  Email: [aab\_stat@yahoo.com](mailto:aab_stat@yahoo.com) | গ্রহণযোগ্য |