



বাংলাদেশ বিশ্ববিদ্যালয় মঞ্চুরী কমিশন

University Grants Commission of Bangladesh

আগারগাঁও শেরে বাংলানগর, ঢাকা-১২০৭

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বাংলাদেশ বিশ্ববিদ্যালয় মঞ্চুরী কমিশনের রিসার্চ গ্রান্টস এন্ড এওয়ার্ড ডিভিশনের বিজ্ঞান ও প্রযুক্তি শাখার ভৌত বিজ্ঞান বিষয়ক গবেষণা প্রকল্প উপ-শাখায় ২০২৩-২৪ অর্থবছরে বিশেষজ্ঞগণ কর্তৃক অনুমোদিত ২৭টি গবেষণা প্রকল্পের বিবরণ নিম্নরূপ:-

ক্রমি ক নং	প্রকল্প অস্থানের বছর	গবেষণা প্রকল্পের শিরোনাম	প্রকল্প পরিচালকের নাম ও ঠিকানা	মূল্যায়নকারী বিশেষজ্ঞের মন্তব্য/মতামত
১.	2023-24(25)	Numerical Study of Blood Flow in Constricted Pulmonary Artery with Angioplasty	Mohammed Nizam Uddin Associate Professor, Department of Applied Mathematics, Noakhali Science and Technology University, Noakhali-3814.	গ্রহণযোগ্য
২.	2023-24(20)	Hydrogeochemical Characteristics for the Assessment of Surface Water Quality Near Savar Industrial Area	Dr. Sharmin Nishat Associate Professor, Department of Chemistry, Bangladesh University of Engineering & Technology (BUET) Dhaka-1000	গ্রহণযোগ্য
৩.	2023-24(22)	Fabrication of amine functionalized GO decorated Zn ₃ (PO ₄) ₂ nanocomposites for the removal of organic dye	Md. Elias Assistant Professor, Department of Chemistry, Jagannath University, Bangladesh	গ্রহণযোগ্য
৪.	2023-24(38)	Development of non-enzymatic lactose sensor based on MXene coated nickel oxide nano particle	Dr. A. B. M. Mamun Jamal Professor & Head, Department of Chemistry, Khulna University of Engineering & Technology (KUET), Khulna-9203, Bangladesh	গ্রহণযোগ্য
৫.	2023-24(16)	Hydrogeological and Hydrochemical Characterization of Aquifer System in Barishal District with Special Emphasis on Water Quality for Drinking and Agricultural Uses	Dr. Md. Mizanur Rahman Sarker Associate Professor, Department of Geological Sciences, Jahangirnagar University Savar, Dhaka-1342, Bangladesh	গ্রহণযোগ্য
৬.	2023-24(48)	Sedimentary and geochemical records of climate change in the Late Pleistocene deposits from Madhupur Tract, Savar, Dhaka, Bangladesh	Prof. Dr. Abu Sadat Md. Sayem Geological Sciences, Jahangirnagar University	গ্রহণযোগ্য
৭.	2023-24(58)	Reservoir Characterization of the Upper Gas Sand in the Surma Basin- The Main Hydrocarbon Reservoir Unit of Bangladesh	Prof. Md. Anwar Hossain Bhuiyan, PhD, Department of Geology, Faculty of Earth and Environmental Sciences, University of Dhaka	গ্রহণযোগ্য
৮.	2023-24(01)	IONANOFUID FLOW AND THERMAL BEHAVIOR THROUGH A COMBINED COLUMN-CONE MICROCHANNEL HEAT SINK	Prof. Dr. Rehena Nasrin Department of Mathematics, Bangladesh University of Engineering and Technology, Dhaka-1000	গ্রহণযোগ্য
৯.	2023-24(41)	Numerical investigation and sensitivity analysis on heat transfer performance in a double tube heat exchanger using metal based nanofluids	Prof. Dr. Md. Mustafizur Rahman, Department of Mathematics, Bangladesh University of Engineering and Technology (BUET), Dhaka-1000, Bangladesh.	গ্রহণযোগ্য

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১০.	2023-24(12)	Age-specific aerosol particle inhalation as targeted drug delivery in human lungs	Dr. Md. Mizanur Rahman, Associate Professor, Department of Mathematics, Islamic University, Kushtia-7003, Bangladesh	গ্রহণযোগ্য
১১.	2023-24(56)	Dynamical Behavior of Epidemic Models Using Fuzzy Analysis with Disease Control and Mitigation Strategies in Bangladesh	Dr. Md. Shahidul Islam, Professor & Chairman, Department of Mathematics, University of Dhaka, Dhaka - 1000, Bangladesh	গ্রহণযোগ্য
১২.	2023-24(39)	Optimizing Cost-effective Control: Epidemic Modeling Late Blight Tomato Diseases	Prof. Dr. Mostak Ahmed Department of Mathematics, Jagannath University, Dhaka-1100, Bangladesh.	গ্রহণযোগ্য
১৩.	2023-24(50)	Algebraic technique to obtain exact solutions and energy spectra for quantum superintegrable models	Prof. Dr. Md. Fazlul Hoque, Department of Mathematics, Pabna University of Science and Technology, Pabna 6600, Bangladesh	গ্রহণযোগ্য
১৪.	2023-24(65)	“Consumers’ Satisfaction Level and The Health Impacts of Carbonated Soft Drinks From the Perspectives of School-Going Students in Chattogram City, Bangladesh”	Prof. Dr. Mohammad Ali, Department of Mathematics, Chittagong University of Engineering & Technology (CUET), Raozan-4349, Chattogram, Bangladesh	গ্রহণযোগ্য
১৫.	2023-24(29)	Blood flow analysis of an aneurysm in a blood vessel	Chinmayee Podder Associate Professor, Dept. of Mathematics, University of Barishal	গ্রহণযোগ্য
১৬.	2023-24(63)	Optimal Control of Vector-host Dynamic Dengue Epidemic Model	Dr. Md Rifat Hasan, Associate Professor, Department of Applied Mathematics, Noakhali Science and Technology University, Noakhali- 3814	গ্রহণযোগ্য
১৭.	2023-24(10)	Evaluation of The Production routes of ^{77}As via Neutron, Proton and Alpha Induced Reactions	Prof. Dr. A. K. M. Rezaur Rahman, Department of Physics University of Chittagong	গ্রহণযোগ্য
১৮.	2023-24(47)	Mapping spatiotemporal distribution of heavy minerals in the Jamuna-Brahmaputra River bar sediments using imaging spectroscopy of earth remote sensing techniques	Dr. Md. Bodruddoza Mia Department of Geology University of Dhaka, Dhaka-1000	গ্রহণযোগ্য
১৯.	2023-24(33)	Facile synthesis and characterization of nanoparticle decorated molybdenum diselenide nanoflower for energy storage applications	Prof. Dr. Muhammad Rakibul Islam Department of Physics, Bangladesh University of Engineering and Technology (BUET), Dhaka	গ্রহণযোগ্য
২০.	2023-24(42)	Fabrication of low-cost portable microscopy for biological sample analysis	Dr. Md. Alamgir Kabir, Associate Professor, Department of Physics, Jahangirnagar University, Savar, Dhaka 1342, Bangladesh	গ্রহণযোগ্য
২১.	2023-24(45)	To Mitigate the Sintering Temperature of Ferrite Using Sintering Aids and Study the Magnetic Properties of Synthesized Ferrites via Solid State Reaction Method	Prof. Dr. Kazi Hanium Maria, Department of Physics, University of Dhaka, Dhaka, Bangladesh	গ্রহণযোগ্য
২২.	2023-24(49)	Decay mode rate analysis of ^{12}C ion for therapeutic energy range in different materials using Monte Carlo calculation	Dr. Quazi Muhammad Rashed Nizam, Former Visiting Professor, University of Fukui, Japan & Associate Professor, Department of Physics, University of Chittagong, Chittagong-4331, Bangladesh	গ্রহণযোগ্য

২৩.	2023-24(55)	Synthesis of MnO ₂ /NiO bilayer nano-porous thin films for humidity sensing application	Dr. Mehnaz Sharmin, Associate Professor, Department of Physics, Bangladesh University of Engineering and Technology (BUET), Dhaka-1000	গ্রহণযোগ্য
২৪.	2023-24(60)	“A Computational Study of Structural, Mechanical, and Optoelectronic Properties of Pure and Doped SrPrSbO ₆ Lead-free Double Perovskites for solar energy harvesting”.	Prof. Alamgir Kabir, PhD (UCF, USA), Department of Physics, University of Dhaka Dhaka 1000, Bangladesh	গ্রহণযোগ্য
২৫.	2023-24(68)	Cost effective method of preparation of 2D nano films of transition metal dichalcogenides (TMDCs) and their applications in optoelectronic, and storage devices	Prof. Dr Sabina Hussain, Department of Physics, University of Dhaka, Dhaka	গ্রহণযোগ্য
২৬.	2023-24(11)	A comprehensive statistical meta-analysis to investigate the association of TOX3 gene polymorphisms with breast cancer and therapeutic indications	Prof. Saroje Kumar Sarkar PhD Department of Statistics, University of Rajshahi, Rajshahi-6205, Bangladesh	গ্রহণযোগ্য
২৭.	2023-24(61)	Predicting Child Marriage in Bangladesh using Machine Learning Techniques	Prof. Md Hasinur Rahaman Khan, PhD Institute of Statistical Research and Training (ISRT), University of Dhaka, Dhaka 1000, Bangladesh	গ্রহণযোগ্য