

### R&D 2024-2025 (Physical Science Group)

Sl.No.	Tracking Number	Name	Address	Organization/ University	Academic Qualification	Last Year Record(Yes/No)	Last Year Report(Yes/No)	Research Merit	Research Title
1	1717574527	Dr. Md. Lokman Ali	Associate Professor, Department of Physics, Pabna University of Science and Technology	Pabna University of Science and Technology	SSC, HSC, BSc, MS/MSc, PhD	No		Lab Work	Multifunctional properties of GdCrO <sub>3</sub> nanoparticles synthesized via Sol-gel method.
2	1719389700	Md. Rezaul Karim	Lecturer, Department of Chemistry, Faculty of Science, HSTU, Dinajpur.	Hajee Mohammad Danesh Science and Technology University	Dakhil, HSC, BSc, MS/MSc	No		Lab Work	Synthesis and characterization of silver (Ag) nanoparticles using mango peel Extracts.
3	1717662702	N. Y. Tanisa	Physics	Uttara University	SSC, HSC, BSc, MS/MSc	No		Lab Work, Computer Based Work	Utilizing Pineapple Extract as a Capping and Reducing Agent in the Synthesis of Titanium Dioxide Nanoparticles: Characterization and
4	1719319895	Md. Kaderi Kibria	Lecturer, Department of Statistics	Hajee Mohammad Danesh Science and Technology University, Dinajpur	SSC, HSC, BSc, MS/MSc	No		Computer Based Work	Identification of Shared Bacterial Genes for Diagnosis and Therapies of Obese Individual with Type-2 Diabetes
5	1719491633	Mohammad Asif Arefin	Assistant Professor, Department Of Mathematics	Jashore University of Science and Technology, Jashore-7408	SSC, HSC, BSc, MS/MSc	Yes (2022-2023)	(2022-2023) - Yes,	Computer Based Work	Dynamic-type multi-soliton solutions of fractional order nonlinear evolution equation for weather forecasting in the coastal
6	1718901624	Md. Alamin Talukder	Senior Lecturer, Computer Science and Engineering, 4 Embankment Drive Road, Sector-10, Uttara Model Town, Dhaka-1230	International University of Business Agriculture and Technology	SSC, HSC, BSc, MS/MSc	No		Computer Based Work	An Integrated Multistage Ensemble Machine Learning Model for Fraudulent Transaction Detection
7	1717917365	Kumary Sumi Rani Shaha	Dept. of EECE, PUST	Pabna University of Science and Technology	SSC, HSC, BSc Engg., MS/MSc	No		Computer Based Work	Design of an Ultra Low Loss Connecting Cladding based Negative Curvature Fiber
8	1719724122	Mysha Maliha	Lecturer, Institute of Leather Engineering and Technology, Hazaribagh, Dhaka-1209	University of Dhaka	SSC, HSC, BSc, MS/MSc	No		Lab Work, Computer Based Work	Fabrication of pH Responsive Intelligent Packaging Material for Real Time Monitoring of Food Freshness

9	1719762037	Md. Nadim Mahamud Nobin	Lecturer in Physics, Department of Arts and Sciences	Bangladesh Army University of Science and Technology	BSc, MS/MSc	No		Computer Based Work	Pressure induced physical properties in RTiO3 (R=Sm, Ce) perovskites for efficient solar energy conversion materials.
10	1718100628	Md. Waliullah	Scientific Officer	Bangladesh Council of Scientific and Industrial Research (BCSIR) Rajshahi Laboratories	SSC, HSC, BSc, MS/MSc	Yes (2023-2024)	(2023-2024) - No,	Lab Work, Field Work	Synthesis and characterization of biopolymer/metal organic framework nanocomposite as effective materials for various application
11	1719484297	Dr. Md. Siddikur Rahman	Associate Professor	Begum Rokeya University, Rangpur	SSC, HSC, BSc, MS/MSc, PhD	Yes (2023-2024)	(2023-2024) - Yes,	Survey Work, Computer Based Work	Exploring Public Knowledge and Perceptions Towards AI-driven Smart Healthcare Systems in
12	1719402080	Jakiul Islam	Department of Physics	Noakhali Science and Technology University, Noakhali	SSC, HSC, BSc, MS/MSc	No		Computer Based Work	Exploring Diverse Properties of Environment-Friendly Double Perovskite Material for High-Performance Technological
13	1719756192	Rabeya Sultana	Lecturer, Physics	Dhaka University	SSC, HSC, BSc, MS/MSc	No		Lab Work	Ce doped NiO nanoparticle synthesis using sol-gel method and to observe structure, optical properties and
14	1719403622	Mohasena Ahamed	,		SSC, HSC, BSc, MS/MSc	No		Computer Based Work	Exploring Symmetry and Superintegrability in Modern Physics with Lie Algebraic
15	1719519370	Nayeem Shahriar	Principal Officer, Research Unit, PMED, Head Office, Bangladesh House Building Finance Corporation, 22, Puarana Paltan, Dhaka-1000	Bangladesh House Building Finance Corporation	SSC, HSC, BSc, MS/MSc	No		Field Work, Computer Based Work	Statistical Modeling for Detecting Geo-Spatial Patterns of Surface Urban Heat Island Intensity in Dhaka City
16	1719660825	Sudeb Chandra Das	Scientific Officer, Institute of Nuclear Minerals, AERE, Savar, Dhaka-1349	Bangladesh Atomic Energy Commission	SSC, HSC, BSc, MS/MSc	Yes (2023-2024)	(2023-2024) - Yes,	Lab Work, Field Work, Computer Based Work	Assessment of Rare Earth Elements, Th and U in Coal Fly Ash and Coal Seams of Bangladesh: An integrated Radiometric and Geochemical
17	1719485579	HASINA AKHTER SIMOL	Senior Scientist, Centre for Advanced Research in Sciences, University of Dhaka	University of Dhaka	SSC, HSC, BSc, MS/MSc, PhD	Yes (2023-2024)	(2023-2024) - No,	Lab Work	Synthesis and characterization of WO3 based composite using binary metal oxides for enhanced activity
18	1719659355	Mimma Tabassum	Assistant Professor, Department of Statistics, Noakhali Science and Technology University, Noakhali 3814	Noakhali Science and Technology University	SSC, HSC, BSc, MS/MSc	Yes (2023-2024)	(2023-2024) - No,	Survey Work, Computer Based Work	A machine learning approach for predicting the determinants of problematic smartphone use among preschoolers (3–5 years) in Bangladesh: A cross-sectional investigation.

19	1719731192	Md. Ariful Islam	Lecturer, Institute of Leather Engineering and Technology	University of Dhaka	SSC, HSC, BSc, MS/MSc	No		Lab Work, Field Work	Preparation and Characterization of Leather Trimming Dust and Natural Rubber Latex Based-composites for Recyclable Product Application: A
20	1719735814	Swarupa Kundu	Lecturer; Level-7, Department of Pharmacy, USTC, Block-D, Foy's Lake, Khulshi, Chattogram.	University of Science and Technology Chittagong	SSC, HSC, BSc, MS/MSc	No		Lab Work	Isolation and characterization of chemical compounds from spinach (Spinacia oleracea) seeds using the GC-MS technique in polar and nonpolar solvents.
21	1719316420	Md. Nuruzzaman	Scientific Officer, Institute of Mining, Mineralogy and Metallurgy (IMMM), BCSIR, Jovpurhat	Bangladesh Council of Scientific and Industrial Research (BCSIR)	SSC, HSC, BSc Engg., MS/MSc	No		Lab Work	Development of Composite Corrugated Sheets from Waste Plastics and Rice Husk Ash
22	1719751448	M A A Shofi Uddin Sarkar	Scientific Officer, Phytochemistry division, BCSIR Chattogram Laboratories, Baluchara, Chattogram	Bangladesh Council of Scientific and Industrial Research (BCSIR)	MS/MSc, MPhil	No		Lab Work	Physico-chemical analyses and Nutritional assessment of safflower oil in Bangladesh
23	1719721176	Nafisa Tamannaya Dina	Institute of Nuclear Minerals, AERE, Ganakbari, savar, Dhaka	Bangladesh Atomic Energy Commission	SSC, HSC, BSc, MS/MSc	No		Lab Work, Field Work, Survey Work, Computer Based Work	Occurrence and Distribution of Economic Heavy Mineral Sands from Urir Char, North-east Island of Bay of Bengal, Bangladesh
24	1719322095	Farhad Hossain	Lecturer, Department of Geology, University of Dhaka, Dhaka 1000.	University of Dhaka	SSC, HSC, BSc, MS/MSc	Yes (2023-2024, 2022-2023)	(2023-2024) - No, (2022-2023) - Yes,	Field Work, Computer Based Work	Coupling Physics-Based TRIGRS Model with Bayesian Optimized-SVM for Enhanced Landslide Hazard Analysis in the Chittagong
25	1719318792	MD MONIRUL ISLAM	Senior Research Associate	Bangladesh University of Engineering and Technology (BUET)	SSC, HSC, BSc, MS/MSc	No		Field Work, Survey Work, Computer Based Work	Challenges and Opportunities for Anticipatory Actions for Better Human Health Outcomes in Cyclonic Storm Surge-Prone Coastal Areas of Bangladesh
26	1719725755	Mohammad Tanvir Ahmed	Lecturer, Department of Physics, Jashore University of Science and Technology	Jashore University of Science and Technology	SSC, HSC, BSc, MS/MSc	Yes (2023-2024)	(2023-2024) - No,	Computer Based Work	Ab initio study of carbon-based quantum dots for wastewater treatment application
27	1719762519	Dr. Md. Rasadujjaman	Associate Professor, Department of Physics, Mawlana Bhashani Science and Technology University, Office room no. 309A, 2nd Academic Building	Mawlana Bhashani Science and Technology University	SSC, HSC, BSc, MS/MSc, PhD	No		Lab Work	Study of a chemically stable lead-free Sn-based perovskite thin film for solar cell applications

28	1719490510	Dr. MD Rifat Hasan	Associate Professor, Department of Applied Mathematics, Noakhali Science and Technology University, Noakhali-3814	Noakhali Science and Technology University	SSC, HSC, BSc, MS/MSc, PhD	No		Field Work, Computer Based Work	Dynamic Vector-host Modeling-Based Vaccination and Treatment Approaches for Dengue Control
29	1719492381	J. R. M. Borhan	Lecturer, Department of Mathematics, Jashore University of Science and Technology, Jashore-7408.	Jashore University of Science and Technology	SSC, HSC, BSc, MS/MSc	No		Field Work, Computer Based Work	Stability, modulation instability and new traveling wave solutions to the nonlinear integro-partial differential equations in the field of industrial engineering.
30	1719378215	Rayhan Alam	Senior Scientific Officer, Institute of Nuclear Medical Physics, AERE, Savar-1349	Bangladesh Atomic Energy Commission	Dakhil, HSC, BSc, MS/MSc	Yes (2023-2024, 2022-2023, 2021-2022)	(2021-2022) - Yes, (2022-2023) - Yes, (2023-2024) - Yes,	Lab Work, Field Work, Survey Work	“Determination of Inorganic Anions (fluoride, chloride, bromide, nitrite, nitrate, o-phosphate, sulfate) in Industrial Effluent, Surface Water, and Drinking Water by in Key Industrial Areas of Dhaka City, and Analysis of Their Environmental Impacts”.
31	1719503284	MD. Zia Uddin Rasel	Scientific Officer, Fiber & Polymer Research Division, BCSIR, Rajshahi Laboratories	Bangladesh Council of Scientific & Industrial Research (BCSIR), Rajshahi Laboratories	SSC, HSC, BSc, MS/MSc	No		Lab Work	Synthesis of novel bio-polyols from vegetable oil for the production of sustainable polyurethane materials.
32	1719729254	Md. Ayub Ali	Assistant Professor, Department of Statistics, University of Barishal	University of Barishal	SSC, HSC, BSc, MS/MSc, MPhil	No		Lab Work, Survey Work, Computer Based Work	Obtaining the overall conception of the students about objective base education (OBE) curriculum and their opinion on in-course assessment system: A study on some
33	1719765034	Syeda Jasia Firdaws	Lecturer, Department of Oceanography and Hydrography	BSMR Maritime University	BSc, MS/MSc	No		Field Work	Assessment of Plankton Susceptibility Towards Toxic Heavy Metals and Their Impacts on Commercial Fish Diversity of South Central Coastal Zone of Bangladesh: A Case Study in Rahmabad Channel
34	1719660351	Sauda Sultana Mimi	Lecturer	University of Dhaka	SSC, HSC, BSc, MS/MSc	Yes (2023-2024)	(2023-2024) - No,	Lab Work	Chemical Composition and Pharmacological Evaluation of <i>Catharanthus roseus</i> (L.) G. Don
35	1719731411	Firoz Ahmed	Scientific Officer, Fiber & Polymer Research Division, BCSIR Rajshahi Laboratories, Raishahi	Bangladesh Council of Scientific & Industrial Research	SSC, HSC, BSc, MS/MSc, MPhil	No		Lab Work	Development of Nano-biocomposite Film for Complicated Wound Healing Management- A Sustainable Approach

36	1719493274	Md Jasim Uddin	,		SSC, HSC, BSc, MS/MSc	Yes (2023-2024)	(2023-2024) - No,	Survey Work, Computer Based Work	Investigating the memory effects in a discretized fractional order prey-predator model with square root functional response and harvesting
37	1719767896	Shabista Yildiz	Lecturer, Department of Meteorology	University of Dhaka	SSC, HSC, BSc, MS/MSc	No		Computer Based Work	Investigating the Role of Large-Scale Atmospheric and Oceanic Dynamics in Heat Wave Occurrences in
38	1719751313	Chandra Nath Podder	Professor, Department of Mathematics	University of Dhaka	BSc, MS/MSc, PhD	Yes (2019-2020, 2013-2014)	(2013-2014) - Yes, (2019-2020) - Yes,	Computer Based Work	Age Structured Mathematical Model on Dengue to Assess the Impact of Vaccination and Treatment
39	1719739780	Md. Moazzam Hossain	,		SSC, HSC, BSc, MS/MSc	No		Lab Work	Adsorptive and photocatalytic removal of organic water pollutants
40	1719768110	Md. Mohibul Islam Khan	Assistant Professor and Head, Department of Sciences.	BGMEA University of Fashion and Technology	BSc, MS/MSc, PhD	No		Lab Work	Extraction of natural dye from Phaseolus Vulgaris leaves and investigation of its dyeing and
41	1719654110	Md. Iftakhar Parvej	Statistics	Noakhali Science and Technology University	SSC, HSC, BSc, MS/MSc	Yes (2023-2024)	(2023-2024) - No,	Survey Work, Computer Based Work	A Comprehensive Study of Factor Contributing to Decrease in Female Breastfeeding Rates over Time in
42	1719727575	Dr. Thamina Acter	Mathematical and Physical Sciences	East West University	BSc, MS/MSc, PhD	No		Lab Work, Field Work, Computer Based Work	Assessment of Drinking Water Quality Purified by Commercial Water Purifier Systems Used in
43	1719743901	Dr. Bablu Chandra Das	Associate Professor, Department of Physics, Matuail, Jatrababi, Dhaka-1362	Matuail Haji Abdul Latif Bhuiyan College	MS/MSc, MPhil, PhD	No		Lab Work	Fabrication of solar cell for renewable energy
44	1719725740	Debashis Roy	Lecturer, Department of Physics	যশোর বিজ্ঞান ও প্রযুক্তি বিশ্ববিদ্যালয়	SSC, HSC, BSc, MS/MSc	Yes (2023-2024, 2022-2023)	(2022-2023) - Yes, (2023-2024) - No,	Computer Based Work	Developing nanomaterials for removing industrial toxic gases: An ab-initio study
45	1719725270	Abdullah Al Roman Dukhu	Lecturer, Department of Physics	Jashore University of Science and Technology	SSC, HSC, BSc, MS/MSc	No		Computer Based Work	A first-principles study of transition metal-based nanostructure for photovoltaic application
46	1719695107	Farzana Zannat Toshi	Lecturer, Department of Statistics, Begum Roketa University, Rangpur	Begum Roketa University, Rangpur	SSC, HSC, BSc, MS/MSc	Yes (2023-2024, 2022-2023)	(2023-2024) - Yes, (2022-2023) - Yes,	Survey Work, Computer Based Work	Excessive Gadget Exposure Enhances the Risk of Autism Spectrum Syndrome among Children: A Case Study in the
47	1719735195	Md Nirab Hossain	Department of Applied Mathematics	University of Dhaka	MS/MSc	Yes (2023-2024)	(2023-2024) - Yes,	Lab Work, Computer Based Work	Exploring a Viable f(R) Gravity Model with Chameleonic Scalaron and its Influence on Galactic
48	1719749729	Mohammad Kamal Hossain	Associate Professor, Department of Physics, Faculty of Science Building, Comilla University, Kotbari, Cumilla. 3506	Comilla University	SSC, HSC, BSc, MS/MSc, PhD	No		Lab Work, Computer Based Work	Toxicity Reduction and Retaining Overall Efficiency of CsPbX <sub>3</sub> (X =Cl, Br) for Eco-friendly Optoelectronic Applications

49	1719757454	Md. Al-Amin	Scientific Officer, Institute of National Analytical Research and Service (INARS), Dhanmondi, Dhaka-1205	Bangladesh Council of Scientific and Industrial Research (BCSIR)	SSC, HSC, BSc, MS/MSc	No		Lab Work	Evaluation of Fertilizer-Induced Heavy Metal Accumulation on Soil and Vegetables in a Remote Area of Bangladesh
50	1719761921	Aishia Fyruz Aishi	Lecturer, Department of Meteorology, University of Dhaka, Dhaka-1000, Bangladesh	University of Dhaka	SSC, HSC, BSc, MS/MSc	No		Field Work, Survey Work, Computer Based Work	Advanced Flash Flood Prediction Using Google Earth Engine and Machine Learning in North-Eastern Bangladesh
51	1719769972	Sumiya Sadeak	Lecturer, Department of Geology, University of Dhaka, Dhaka-1000.	Dhaka University	SSC, HSC, BSc, MS/MSc	Yes (2023-2024)	(2023-2024) - No,	Lab Work, Field Work, Computer Based Work	Understanding Manganese's Impact on Bangladesh Coastal Aquifers from Geochemical Data and
52	1719770288	Ummelewara Bristi	Assistant Professor, Apparel Manufacturing & Technology	BGMEA University of Fashion & Technology	SSC, HSC, BSc, MS/MSc	No		Lab Work, Field Work, Computer Based Work	Spatiotemporal Assessment of Different Parameters of The Water Quality of Turag River and Ground Data Validation using Laboratory