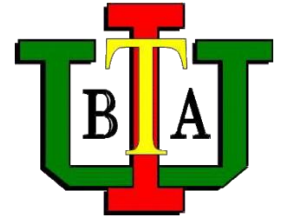# SUSCOM-2022

Sustainable Computing and Management

The 4th

International Conference on Sustainable Computing and Management

Program Schedule
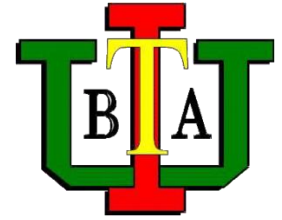
Virtual Link:
https://bdren.zoom.us/j/61891540991

Organized by

Miyan Research Institute
International University of Business Agriculture and Technology
Dhaka, Bangladesh.
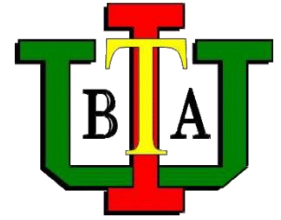**August 06 - 08, 2022**

SUSCOM-2022
Sustainable Computing and Management

Session: Day-1 (August 06, 2022, Saturday)

Inauguration Ceremony			
Date:	**August 06, 2022**	**Time:**	**10.00 AM – 11.30 AM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Welcome Speech	**Professor Dr. Abul Khair** Chair, Miyan Research Institute, International University of Business Agriculture and Technology, Dhaka, Bangladesh.		
Address by Conference Chair	**Dr. Ramesh Chandra Poonia** Associate Professor, CHRIST University, Bangalore, India.		
Speech by Special Guest	**Professor Dr. Kashinath Chatterjee** Department of Biostatistics and Data Science, Augusta University, USA.		
Speech by Patron	**Professor Selina Nargis** Treasurer & Director Administration, International University of Business Agriculture and Technology, Dhaka, Bangladesh.		
Speech by President	**Professor Dr. Abdur Rab** Chief Patron Vice-Chancellor, International University of Business Agriculture and Technology, Dhaka, Bangladesh.		
Vote of Thanks	**Dr. Sajal Saha** Director, Miyan Research Institute, International University of Business Agriculture and Technology, Dhaka, Bangladesh.		
Keynote Talk			
Guest Speaker	**Dr. Bharatendra K. Rai** Director, Master of Science Technology Management Program, Chairperson, Department of Decision and Information Sciences, Professor of Business Analytics, Charlton College of Business, University of Massachusetts, Dartmouth, USA		
Guest Speaker	**Dr. Deepak Ranjan Nayak** Assistant Professor, Dept. of Computer Science and Engineering, Malaviya National Institute of Technology Jaipur, JLN Marg, Jaipur, Rajasthan, India		

SUSCOM-2022
Sustainable Computing and Management

Parallel Presentation Session: Day-1

Parallel Session: D1-1-A

Date:	August 06, 2022	Time:	1.00 PM – 2.00 PM BST (Dhaka)

Link: https://bdren.zoom.us/j/61891540991

Session Chair:	Dr. Rohit Agarwal, Associate Professor, GLA University, Mathura, India Dr. Shalini Puri, Assistant Professor, Manipal University Jaipur		
Scope/Topic:	**Sustainable Mathematical Sciences and Cryptography**		

Paper ID	Title	Corresponding Author
C2022013	A Type of Public Cryptosystem Using Polynomials and Pell Sequences	Ashok Gudela
C2022014	Predicting Customer Churn: A Systematic Literature Review	Soumi De
C2022018	Multipath Quality Route Selection Routing for High Mobility Network with Hybrid Tabu Search	Indumathi
C2022033	Using clustering scheme: Prevent reply attack in vehicular ad-hoc networks (VANET)	Mousumi Ahmed Mimi
C2022058	A Highly Efficient FPGA Implementation of AES For High Throughput IoT Applications	Deepak Panwar

Parallel Session: D1-1-B

Date:	August 06, 2022	Time:	1.00 PM – 2.00 PM BST (Dhaka)

Link: https://bdren.zoom.us/j/61891540991

Session Chair:	Dr. Mohammad Monir Uddin, Associate Professor, Mathematics, NSU Dr. Soumya Ranjan Nayak, Assistant Professor, Amity University, India		
Scope/Topic:	**Sustainable Interdisciplinary Mathematics**		

Paper ID	Title	Corresponding Author
C2022059	The Impact on Education of University Students in COVID-19 Pandemic Period: A Factor Analysis	Suman Chowdhury
C2022076	Mathematical Model for 3D Object Reconstruction using OccNet (CNN)	Shruthiba A
C2022077	Comparative study on techniques of Model Order Reduction using Rational Krylov Subspace Method	Md. Saiduzzaman
C2022080	A Mathematical Model for Generation of Interactive Fractals using a fourth order Fractal Square: A Case Study	Soumya Ranjan Nayak
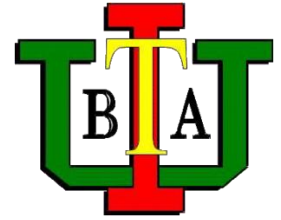
C2022084	A Sustainable Computational modeling on Gyrotactic Free Forced Bioconvective Flow with various slip effects	Nayema Islam Nima

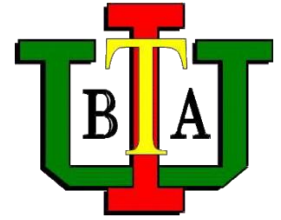| Parallel Session: D1-2-A			
Date:	**August 06, 2022**	**Time:**	**2.30 PM – 3.30 PM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	**Prof. Dr. Dewan Muhammad Nuruzzaman, Chair, Mechanical Engineering, IUBAT**		
Scope/Topic:	**Sustainable Statistical & Management Systems**		
Paper ID	**Title**		**Corresponding Author**
C2022001	Investigating the impact of Global Market Trends and Market Interaction on the Indian Stock Market through Statistical Time Series Modeling		Rahul Maheshwari
C2022105	Adaptive MLELM-AE Model for Efficient prediction of Stock Market Data		Ajit Kumar Rout
C2022107	Air Pollution Prediction and Hotspot Detection using Machine Learning		Shailee Bhatia
C2022115	Predicting Student Dropouts using Random Forest		Kapila Devi
C2022168	Statistical Analysis of Learners' Ubiquity and Autonomy: Sustaining the Development of Learning Management System (LMS) for L2 Proficiency		Divya Jyot Kaur

Parallel Session: D1-2-B			
Date:	**August 06, 2022**	**Time:**	**2.30 PM – 3.30 PM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	**Dr. Pankja Dadheech, Associate Professor, SKIT, Jaipur, India Prof. Dr. Utpal Kanti Das, Chair, CSE, IUBAT**		
Scope/Topic:	**Sustainable Information and Optimization**		
Paper ID	**Title**		**Corresponding Author**
C2022074	A Study of Feature Selection Methods for Android Malware Detection		Deepak Kshirsagar
C2022101	ASD detection using an advanced Deep Neural Network		Priyadarsan Parida
C2022102	A Genetic Algorithm based Decision Support System for forecasting Security Prices in Stock Index		Vivek Kapoor

C2022082	A novel approach for BOA Trained ANN for Channel Equalization Problems	Priyadarsan Parida
C2022031	Effective negative triplet sampling for knowledge graph embedding	Anish Khobragade

| Parallel Session: D1-3-A			
Date:	**August 06, 2022**	**Time:**	**4.00 PM – 5.00 PM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	**Prof. Dr Abhijit Saha, CSE, IUBAT**		
Scope/Topic:	**Sustainable Mathematical Sciences and Cryptography**		
Paper ID	**Title**		**Corresponding Author**
C2022067	Count vectorizer model based web application vulnerability detection using artificial intelligence approach		Manjunatha K M
C2022096	A Convenient way to mitigate DDoS TCP SYN Flood attack		Toyeer-E-Ferdoush
C2022097	A Highly Robust and Secure Digital Image Watermarking using Modified Optimal Foraging Algorithm - based SVM Classifier and Hyperchaotic Fibonacci Q-Matrix		Megha Gupta
C2022114	Suggestion Mining From Online Reviews Using Temporal Convolutional Network		Nadeem Akhtar
C2022131	MORID: MQTT Oriented Routing between IoT Devices		Rahul Johari

Parallel Session: D1-3-B			
Date:	**August 06, 2022**	**Time:**	**4.00 PM – 5.00 PM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	**Dilip Kumar Das, Associate Professor, Coordinator, DQS, IUBAT**		
Scope/Topic:	**Sustainable Interdisciplinary Mathematics**		
Paper ID	**Title**		**Corresponding Author**
C2022136	An advanced approach of Regula-Falsi Method exploiting the Bisection Method		Md. Moksud Islam
C2022156	Use of Integration to calculate the magnetic field in a space by using Mathematica Software		Zahurul Amin
C2022161	Generation of the Mathematical Model to Analyze the dynamical Behaviour of the Blood Flow		Md Shafiqul Islam
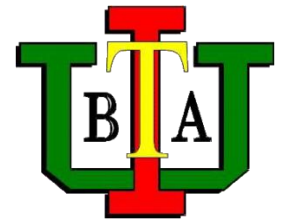
C2022164	Mathematical modeling of an Oscillation Criteria based on Second Order Linear Difference Equations using Fuel Cell System for Electric Vehicle	Dr Tawfikur Rahman

Session: Day-2 (August 07, 2022, Sunday)

| Keynote Speech			
Date:	**August 07, 2022**	**Time:**	**9.30 AM – 11.00 AM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Guest Speaker	**Dr. Sandeep Kumar** Associate Professor, CHRIST University, Bangalore, India.		
Guest Speaker	**Dr. Abu Helal** Assistant Professor, Colorado State University Department of Forest and Rangeland Stewardship, USA.		

Parallel Presentation Session: Day-2

Parallel Session: D2-1-A			
Date:	**August 07, 2022**	**Time:**	**11.00 AM – 12.00 PM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	Dr. Shaurya Gupta, Assistant Professor, UPES, India Dr. Shalini Puri, Assistant Professor, Manipal University Jaipur		
Scope/Topic:	**Sustainable Statistical & Management Systems**		
Paper ID	**Title**	**Corresponding Author**	
C2022169	Comparative Analysis of ARIMA and Double Exponential Smoothing for Forecasting Rice Sales in Fair Price Shop	Archana Sasi	
JSMS_01	Design of Framework for Cognitive Styles in Formulating Individualistic Approach	Garima Saini	
JSMS_02	Impact of Online Shopping Advertising on Customer Trust and Loyalty during Festival Sales	L. Vijayan	
JSMS_03	Comparative Study of LIP and SIP using Non-Regression Measures	Ity Patni	
JSMS_04	Statistical Analysis of MapReduce with Cache (MRC)	Ruchi Nanda	
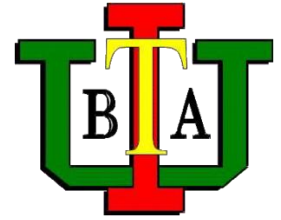
JSMS_05	Role Of E-Payment in Cashless Economy and Its Impact On Consumer Behavior	Anupam Jain

Parallel Session: D2-1-B			
Date:	**August 07, 2022**	**Time:**	**11.00 AM – 12.00 PM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	**Dr. Prabu P, Assistant Professor, CHRIST (Deemed to be University) Bangalore, India** **Dr. Md. Ashraful Babu, Assistant Professor, DQS, IUBAT**		
Scope/Topic:	**Sustainable Information and Optimization**		
Paper ID	**Title**	**Corresponding Author**	
C2022039	A novel approach for Optimization of Effort Estimation of Agile projects using SVC_RBF along with Neural Network Backpropagation	Manju Vyas	
C2022061	Small Object Detection Using Retinanet with Hybrid Anchor Box Hyper Tuning Using Interface Of Bayesian Mathematics	Ravi Prakash Chaturvedi	
C2022086	Tiered Sentence based Topic Model for Multi-document Summarization	Nadeem Akhtar	
C2022112	Hyperspectral image classification using meta-heuristics and artificial neural network	Sakshi	
C2022179	An analysis of Hereditary and Pure Hereditary Ring using a triangular matrix ring	Mosst. Asma Akter	
C2022163	Determinants of Knowledge and Precautionary Practices about Nosocomial Infection among fourth Graded Hospital Workers in Bangladesh: A Mathematical and Statistical Approach	Jannatul Ferdosy	

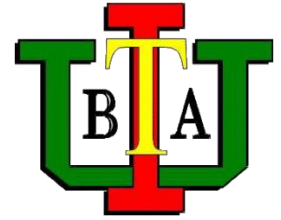| **Parallel Session: D2-2-A**			
Date:	**August 07, 2022**	**Time:**	**1.00 PM – 2.00 PM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	**Professor Dr Rashmi Soni, CSE, New Horizon College of Engineering, Bengaluru.**		
Scope/Topic:	**Sustainable Mathematical Sciences and Cryptography**		
Paper ID	**Title**	**Corresponding Author**	
C2022132	Recursive Approach for Multiple Step-Ahead Software Fault Prediction through Long Short-Term Memory (LSTM)	Rashedul Islam Rana	
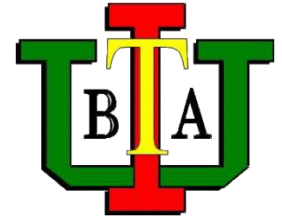
C2022137	Optimizing Scheduling in Cloud using a meta-heuristic Approach	Shilpa Maheshwari
C2022171	Graph Signal Processing and Tunicate Swarm Optimization based Image Steganography using Chaos Based Image Scrambling	Shikha Chaudhary
C2022183	V-Net Architecture Based Advanced Visually Meaningful Image Encryption Technique	Prashant Hemrajani
C2022046	A Novel Approach for User Authentication using Keystroke Dynamics	Devershi Pallavi Bhatt

Parallel Session: D2-2-B			
Date:	**August 07, 2022**	**Time:**	**1.00 PM – 2.00 PM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	**Professor Dr. Piyush Kumar Soni, Peoples University Bhopal**		
Scope/Topic:	**Sustainable Statistical & Management Systems**		
Paper ID	**Title**		**Corresponding Author**
JSMS_06	Economic Growth of India and the Impact of Direct and Indirect Tax -A Study through ARDL Approach		Astha D. Sharm
JSMS_07	Impact of perceived value on the adoption of contactless mobile payments in Small Island Developing States (SIDS): A Study on Emerging Payments Systems from Mauritius		Bhoomika Batra
C2022072	Estimating the Volatility of Stock Price Index for Indian Market using GARCH Model		Rahul Maheshwari
C2022110	Economic and Financial Ratios: Relevant for Stock Selection in Power and Energy Sector?		Nishu Gupta
C2022091	A robust controlling and management of load with minimum frequency and voltage deviation in network employing Genetic Algorithm		Abhinav Saxena
C2022197	Applicability of K-medoids and K-means Algorithms for Segmenting Students based on their Scholastic Performance		Apoorva Verma
C2022192	A SEIAR Mathematical Model to Perceive the Effect of Covid-19 Pandemic Over the Crowded and Dense Populated Regions		Nitin Sharma

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Session: Day-3 (August 08, 2022, Monday)

Keynote Speech			
Date:	**August 08, 2022**	**Time:**	**10.00 AM – 10.45 AM BST (Dhaka)**
Guest Speaker	**Reserved**		

Parallel Presentation Session: Day-3

Parallel Session: D3-1-A			
Date:	**August 08, 2022**	**Time:**	**11.00 AM – 12.00 PM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	Mr. Ankit Kumar, Assistant Professor, GLA University, Mathura, India Dr. Shalini Puri, Assistant Professor, Manipal University Jaipur		
Scope/Topic:	**Sustainable Mathematical Sciences and Cryptography**		
Paper ID	**Title**		**Corresponding Author**
C2022068	Designing and Developing IoT Based Security System for Smart Home		Suman Chowdhury
C2022075	Short Question-Answers Assessment using Lexical and Semantic Similarity based Features		Mr. Tameem Ahmad
C2022100	A Sustainable Competing dynamic: Real-Time Bangla License Plate Detection and Recognition System using YOLOv5 and SSD: A Deep Learning Application		Sanjid
C2022165	Review on Security issues and solutions in Cloud computing		Vaibhav Bhatnagar
C2022174	IoT-Based Air Pollution Detection, Monitoring, and Controlling System		Dipti Mitra

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Parallel Session: D3-1-B			
Date:	**August 08, 2022**	**Time:**	**11.00 AM – 12.00 PM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	**Professor Dr. Piyush Kumar Soni, Peoples University Bhopal.**		
Scope/Topic:	**Sustainable Interdisciplinary Sciences**		
Paper ID	**Title**		**Corresponding Author**
C2022117	A hybrid convolutional long short-term memory (CNN-LSTM) based natural language processing (NLP) model for sentiment analysis of customer product reviews in Bangla		Rubayea Ferdows
C2022015	Effortless and Beneficial Processing of Natural Languages Using Transformers		Amrutha K
C2022198	The FBProphet forecasting model to evaluate the spread of COVID-19 pandemic: A machine learning approach		Md. Ashraful Babu
JSMS_09	Understanding the customer preferences of Non-scheduled operators in India		Itisha Sharma
C2022054	Air pollution causes adverse effect on Men fertility rate and life expectancy rate along with Trim down of Economy		Chandan Kumar Sarkar

Parallel Session: D3-1-C			
Date:	**August 08, 2022**	**Time:**	**11.00 AM – 12.00 PM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	**Dr. Mohammad Monir Uddin, Associate Professor, Mathematics, NSU**		
Scope/Topic:	**Sustainable Interdisciplinary Sciences**		
Paper ID	**Title**		**Corresponding Author**
C2022036	Peoples perception associated with possible health risk from Lead contamination from nearby recycling battery industry in Khulna City, Bangladesh		Mrs Sumiya Akber
C2022048	A mathematical investigation of the asymmetric effects of exchange rates on economic sustainability		Ms. Rehana
C2022172	Mathematical Modeling to anticipate the Global Growth Trends of Renewable Energy		Dilip Kumar Das
C2022081	Impact of drug addiction in Bangladesh using a machine learning approach		Khandakar Rabbi Ahmed
C2022104	A dynamic mathematical model to determine environmental degradation		Tanzin Akhter

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C2022195	Cryptographic Key Distribution Using Artificial Intelligence for Data Security and Location Privacy in VANET	Shivkant

| **Parallel Session: D3-1-D**			
Date:	**August 08, 2022**	**Time:**	**11.00 AM – 12.00 PM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	**Rashedul Islam, Assistant Professor, CSE, IUBAT**		
Scope/Topic:	**Sustainable Interdisciplinary Sciences**		
Paper ID	**Title**		**Corresponding Author**
C2022049	The Association between Financial Development, Trade Openness, and the Growth of the Economy: An Application of the Mathematical Model and Machine Learning Algorithms		Ms. Rehana
C2022116	Macroeconomic Determinants of Remittance for Bangladesh A Gravity Model Approach		Md. Monir Khan
C2022138	A Mathematical Model of Inventory Management under Preservation Technology Investment Considering Late deterioration of Products		Fatema Tuj Johora
C2022103	Opportunities, Challenges, and Sustainable Solutions for Smart Health Applications in Bangladesh		Khandakar Rabbi Ahmed
C2022126	Green synthesis of silver nanoparticles from the extract of dispyros peregrine and antimicrobial characterization for dental applications		Dewan Muhammad Nuruzzaman

Parallel Session: D3-2-A			
Date:	**August 08, 2022**	**Time:**	**1.00 PM – 2.00 PM BST (Dhaka)**
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	**Dilip Kumar Das, Associate Professor, Coordinator, DQS, IUBAT**		
Scope/Topic:	**Sustainable Interdisciplinary Sciences**		
Paper ID	**Title**		**Corresponding Author**
C2022118	An automated system for IoT-based sustainable crop protection from rain, hail, and fog		Md. Ahmed
C2022144	Relationship Between Technology and Industries Becoming Sick: Bangladesh Perspective		A.K.M.Solayman Hoque
C2022151	The Consequences of ongoing Climate Change and Teak Plantation on The Agricultural Revenue of Indigenous People: A Study on Rangamati Area in Bangladesh		Chandan Kumar Sarkar
C2022158	Mechanical characterization of polypropylene-nylon 6-glass fiber blend composites under flexural and impact loadings		Dewan Muhammad Nuruzzaman
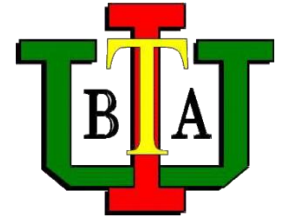
C2022178	Extract of Dalbergia Sissoo Leaves in H2SO4, a Green Solution shows Corrosion Inhibition Behavior on Mild Steel	A. K. M. Foysal Ahmed

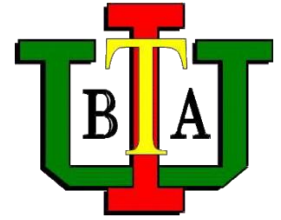| Parallel Session: D3-2-B			
Date:	August 08, 2022	**Time:**	1.00 PM – 2.00 PM BST (Dhaka)
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	Md Saiduzzaman, Assistant Professor, DQS, IUBAT		
Scope/Topic:	Sustainable Interdisciplinary Sciences		
Paper ID	**Title**	**Corresponding Author**	
C2022180	Alarming Road Accident Status in Bangladesh Even during COVID-19 Lockdowns: Actions Required	A. K. M. Foysal Ahmed	
C2022175	Profit Maximization in a Transportation Problem: An Algorithmic Approach	Md. Masum Billah	
C2022182	Obstacle for implement sustainable computing in Bangladesh and approach to being sustainable through green cloud computing methodology	Rabab Khan	
C2022170	Computational Performance Assessment of Diverse Mathematical prophecy Algorithms for Rainfall Forecasting: A case study from Australia	Mst. Ayesha Khatun	
C2022035	Spectrum Decision Approach for Cognitive Radio Based IOT In 5g Communication System	Illuru Raja Sekhar	
C2022098	Liver Disease Prediction Using PSO based classification models	Ankita	

Parallel Session: D3-2-C			
Date:	August 08, 2022	**Time:**	1.00 PM – 2.00 PM BST (Dhaka)
Link: https://bdren.zoom.us/j/61891540991			
Session Chair:	Professor Dr Rashmi Soni, CSE, New Horizon College of Engineering, Bengaluru.		
Scope/Topic:	Sustainable Interdisciplinary Sciences		
Paper ID	**Title**	**Corresponding Author**	
C2022146	Empirical relationship between strength and cost of concrete made from different coarse aggregates	Md. Abdul Basit	
C2022095	A Numerical Study on Plaque Rupture in Stenotic Coronary Artery Model	Md Rakibuzzaman	
C2022184	A heuristic to solve the fuzzy Assignment Problem to obtain near optimal solution	Shabiha Yesmin	
C2022170	Computational Performance Assessment of Diverse Mathematical prophecy Algorithms for Rainfall Forecasting: A case study from Australia	Mst. Ayesha Khatun	

C2022113	Importance of Security in Infrastructure of Cloud	Syed Maaz
C2022147	Impact of Online Marketing Practices on e- Business Models in India: Interest of the Consumer as a Determinant	Neeraj Mathur
C2022002	Predicting the NSE Stock Index Trends Considering Global Financial Variables and ARIMA Model	Rahul Maheshwari

Closing Ceremony

Date:	August 08, 2022	Time:	3.00 PM – 4.00 PM BST (Dhaka)
Link: https://bdren.zoom.us/j/61891540991			

Address by Conference Chair	**Dr. Ramesh Chandra Poonia** **Conference Chair** Associate Professor, CHRIST University, Bangalore, India.
Address by Special Guest	**Professor Dr. Hamida Akhtar Begum** **Chief Patron** Pro Vice-Chancellor, International University of Business Agriculture and Technology, Dhaka, Bangladesh.
Address by President	**Professor Dr. Abdur Rab** **Chief Patron** Vice-Chancellor, International University of Business Agriculture and Technology, Dhaka, Bangladesh.
Award Giving Ceremony	
Program Closing Speech	**Professor Dr. Abul Khair** Chair, Miyan Research Institute, International University of Business Agriculture and Technology, Dhaka, Bangladesh.