

**OPENING CEREMONY  
DAY-1  
FRIDAY, APRIL 26<sup>th</sup>, 2024  
VENUE: ASSEMBLY HALL, GCUH**

REGISTRATION	9:00 AM	
GUESTS TO BE SEATED	9:15 AM	
ARRIVAL OF CHIEF GUEST	9:30 AM	
RECITATION OF HOLY QURAN	9:40 AM	
NAAT-E- RASOOL	9:45AM	
NATIONAL ANTHEM OF PAKISTAN	9:50 AM	
WELCOME NOTE BY CHIEF ORGANIZER	9:55 AM	
REMARKS BY VC, GCUH	10:00 AM	
<b>KEYNOTE SPEAKER</b> <b>Prof. Dr. RAKIB EFENDEYE</b> Head of Department of Mathematics, Baku Engineering University, Azerbaijan	<b>TITLE OF TALK:</b> Inverse scattering problem for the indefinite non-self-adjoint differential operator on the axis.	10:10 AM
<b>KEYNOTE SPEAKER</b> <b>Dr. FIRUZA RAHMAT</b> Institute of Astrophysics, National Academy of Sciences Tajikistan	<b>TITLE OF TALK:</b> A study of Main Belts Comets in the Institute of Astrophysics, National Academy of Science of Tajikistan.	10:35 AM
REMARKS BY CHIEF GUEST	11:00 AM	
DISTRIBUTION OF SHIELDS & SOUVENIRS	11:15 AM	
VOTE OF THANKS	11:30 AM	
GROUP PHOTO AND CLOSING OF OPENING CEREMONY	11:35 AM	
<b>TEA BREAK</b>	11:45 AM	

**DAY-1**  
**VENUE 1: ASSEMBLY HALL, GCUH**

<b>KEYNOTE SPEAKER</b>	<b>TITLE</b>	<b>TIME</b>
Madad Ali Shah	Machine Learning for Precise Navigation: Current Trends and Future Perspectives	12:00-12:15 PM
Syed Nisar Hussain Hamdani	Integrating Mathematics and Divine Economics for Advancing Islamic Social Sciences	12:20-12:35 PM
Tanweer Hussain	Variation Propagation Modelling of Mechanical assemblies	12:40-12:55 PM
Jamil H Kazmi	Geospatial AI and Drone Remote Sensing for Agricultural Scouting in Pakistan	1:00-1:15 PM
<b>LUNCH/PRAAYER BREAK (1:20 pm- 2:00 pm)</b>		
Shoab Pathan	Environmental Sustainability in Pakistan: An Inquiry into the Significance of Green Growth and Innovation towards Environmental Sustainability	2:00-2:15 PM
Zain ul Abideen Khoro	Using graph theory for finding solution of Transportation Problems	2:15-2:30 PM
Amjad Ali Arain	Application of learning aids to reduce mathematics anxiety of female students at primary level	2:30-2:45 PM
Syed Farman Ali Shah	Global Perspective of Bioenergy	2:45-3:00 PM
Sanaullah Dehraj	On exact solutions of nonlinear space-time fractional PDE's via $G'/G$ expansion method	3:00-3:15 PM
Iqrar Ali Pali	Explicit equations of optimal curves of genus one and two over finite fields	3:15-3:30 PM

**DAY-1**  
**VENUE 2: SMART SEMINAR ROOM**

<b>KEYNOTE SPEAKER</b>	<b>TITLE</b>	<b>TIME</b>
Kashif Ali Abro	Fractal Transform Strategies for Fractal-Fractional Model of Newtonian Fluid	12:00-12:15 PM
Dr. Javed Hussain Brohi	Rethinking Undergraduate Mathematics	12:20-12:35 PM
Suhail Khan	Perfect Fluid Static Spherically Symmetric Ricci Solitons in $f(R, T)$ theory	12:40-12:55 PM
Mujtaba Shaikh	A new derivative-based Simpson's type cubature scheme for double integrals	1:00-1:15 PM
<b>LUNCH/PRAYER BREAK (1:20 pm- 2:00 pm)</b>		
Hassan Rashid	اردو زبان اور علوم ریاضی کا اشتراک	2:00-2:15 PM
Dr. Zeenat M. Ali	Nanotechnology: Enabling Sustainable Development in Biodiesel Production.	2:15-2:30 PM
Syed Masroor Anwar	Estimation of Compound Rayleigh Distribution using Classical and Bayesian Approach with Application of Boiler Heat Transfer	2:30-2:45 PM
Abdul Rauf Abbasi	Monitoring the Mean of Type-I Censored Inverse Weibull Lifetimes based on conditional Expected values with Modified EWMA Chart	2:45-3:00 PM
Syed Masroor Anwar	Efficient Memory Control Chart For Process Dispersion With Industrial Application	3:00-3:15 PM
Mansoor Ali Khaskheli	Analytical Solution of Tank Drainage for Electrically Conducting Newtonian Fluid with Slip condition	3:15-3:30 PM
Bulbul Jan	Comparative analysis of family of linear and nonlinear models in Ionospheric Critical frequency ( $foF_2$ ) of $F_2$ layer at Pak. atmospheric region	3:30-3:45 PM

**DAY-1**  
**VENUE 3: COMPUTER LAB (GROUND FLOOR), ACADEMIC BLOCK**  
**THEME: ENGINEERING/PURE MATHEMATICS**  
**MODERATOR: DR. ZAHID WESSAR**  
**CHAIR: DR. RASHID KAMAL**

<b>PRESENTER/ SPEAKER</b>	<b>TITLE</b>	<b>TIME</b>
Dr. Nosheen	Comparison of electrical properties of nickel, palladium and cobalt	12:00-12:15 PM
Razaque Larik, Zahid Rafique	Moving Towards Environmental Sustainability Through the Adoption of Green Technology in Pak.	12:20-12:35 PM
Fozia Iqbal	Symmetries of Patterns in the Cultural heritage of Pakistan (Hala) and Uzbekistan (Samarkand)	12:40-12:55 PM
Noshad Ali	Designing an Arduino UNO Based Controlled Robotic System a Fire Fighting Robo Car for Fire Rescue.	1:00-1:15 PM
<b>LUNCH/PRAYER BREAK (1:20 pm- 2:00 pm)</b>		
Sadiq. H. Khoreem	Enhancing Solar Cell Performance through $Zn^{2+}$ Substitution in $BaNi_{2-x}Zn_xFe_{16}O_{27}$ Ferrite: Nanostructural Insights and Implications	2:00-2:15 PM
Dr. Hassam Shaikh	Existence and Uniqueness of Surface Waves in Generalized Continuum	2:15-2:30 PM
Ali Murtaza Ansari	Investigation of the External Sound Emission using Nanoparticle in Compression Ignition (CI) Engine	2:30-2:45 PM
Aghzia Akram, Raziuddin Siddiqui	Complexes of Geometric configurations and Infinitesimal versions of Polylogarithms	2:45-3:00 PM
Amna Dad	A Study of Solar Cycles-Solar Flares Correlation and Terrestrial Environment	3:00-3:15 PM
Iqra Bibi	On Coefficients Bounds of (p, q)-Bistarlike Functions defined by (p,q)-Differential Operator	3:15-3:30 PM
Ali Raza	quasi-normed spaces	3:30-3:45 PM

**DAY-1**  
**VENUE 4: COMPUTER SCIENCE LAB (FIRST FLOOR), ACADEMIC BLOCK**  
**ONLY FOR ONLINE SESSIONS**

KEYNOTE SPEAKER	TITLE	TIME
Ali Khalouta	A new technique for solving nonlinear time-fractional hyperbolic-like equations with variable coefficients	12:00-12:15 PM
Mohammad Arashi	Sparse Bayesian DAG Learning	12:15-12:45 PM
Kausar Ali	The Role of Mathematics and Philosophy in formation of Social Relations.	12:45-1:00 PM
Asad Ullah	Bridging Theory and Practice: Mathematical Modeling and Topological Characterization of Materials for Enhanced Properties	1:00-1:15 PM
<b>LUNCH/PRAAYER BREAK (1:20 pm- 2:00 pm)</b>		
Fatima Zohra Bengrine	Existence and non-existence results for elliptic system with an Hardy-Leray potential	2:00-2:15 PM
Malki Zakarya	The random fixed point principles of Schaefer and Perov, combined with a vector approach that uses matrices that converge to zero	2:15-2:30 PM
Mostafa Hegy	Earthquake precursors using the Low Earth Orbit (LEO) satellites	2:30-2:45 PM
Mohammed Salah Abdelouahab	Dynamic analysis of tuberculosis spread in some countries using a compartmental VSEIT model with evaluation of the vaccination and treatment effects	2:45-3:00 PM
Horiya Kouadri habbaze	Existence of Positive Solutions of Impulsive Nonlinear Differential Systems of Second Order With Two Point Boundary Condition	3:00-3:15 PM
Mohammed Abdelmalek	The notion of the higher order weighted mean curvature and applications	3:15-3:30 PM

**DAY-2**  
**VENUE 1: ASSEMBLY HALL, GCUH**

<b>KEYNOTE SPEAKER</b>	<b>TITLE</b>	<b>TIME</b>
Kamran Zakaria	Comparison between the Euler method and the Runge-Kutta method in calculating the fractional derivative of glucose-insulin	9:30-9:45 AM
Zain Khursheed	Hankel determinant bounds applicable to specific categories of analytic functions.	9:45-10:00 AM
Dr Mir Shabbar Ali	Transportation Accessibility: A means to address Sustainability	10:00-10:15 AM
Shaheen Abbas	Assessing Urban Complexity: Fractal Dimension as a Metric for Spatial Efficiency Perspectives	10:15-10:30 AM
Muhammad Rashid Kamal Ansari	Mathematical Perception of Some Social Phenomena: Modelling Historical Processes	10:30-10:45 AM
Muhammad Jawed Iqbal	Energy model in Bianchi type-V space time via RIF integration techniques	10:45-11:00 AM
<b>TEA BREAK (11:00-11:30 AM)</b>		
Mubasharah	Navigating the governance landscape: exploring the role of artificial intelligence	11:30-11:45 AM
Ayub Khan Yousufzai	Study the Neutrinos: An innovative way to Explore Universe	11:45-12:00 NOON
Muhammed Junaid	New penalty method to find basic feasible solution of the transportation problems	12:00-12:15 PM
Shahid Hussain	Multiple Solutions and Stability Analysis on the Mixed Convection Boundary Flow of MgO and TiO <sub>2</sub> -Water Based Nanofluids over Stretching and Shrinking Sheet	12:15-12:30 PM
Mansoor Anwar, Manan Shaikh	Statistical and mathematical models of Infectious and vector borne diseases surveillance during of 21st Century	12:30-12:45 PM
Asad Ali Chandio	An Improved Blended Numerical Root-Solver for Nonlinear Equations	12:45-1:00 PM
Bharti Devi	A Modified Two-step Optimal Iterative Root-finding Method for Solving Nonlinear Equations	1:00-1:15 PM
<b>LUNCH/PRAAYER BREAK (1:15 pm- 2:00 pm)</b>		

**MODERATOR: DR. ASGHAR**  
**CHAIR: DR. NISAR HAMDANI**

Shahid Hussain	Mixed convection boundary layer flow and heat transfer through a stretching /shrinking cylinder in Al & TiO <sub>2</sub> mixed in water with thermal radiation and slip effects	2:00-2:15 PM
Amanullah Soomro	Time-efficient reformulation of the Lobatto III family of order eight	2:15-2:30 PM
Fatima rasool	The Hankel Fourth order Determinant associated with Lune function	2:30-2:45 PM
Shafiq ur rehman	Analysis of transition probabilities, line strengths, and oscillator strengths	2:45-3:00 PM
Majid Iqbal, Fayzan Ahmed	Analysis of temperature using linear and quadratic multivariate regression	3:00-3:15 PM
Sardar Ali	Integrating applied Mathematics in additive manufacturing: Innovations, Challenges, and Future directions	3:15-3:30 PM
M Mustaqeem Zahid	New Numerical Approach to Calculate Microstates of Equivalent and Non-Equivalent Electrons	3:30-3:45 PM

**DAY-2**  
**VENUE 2: SMART SEMINAR ROOM**  
**THEME: APPLIED MATHEMATICS**  
**MODERATOR: DR. NAJAM SHAIKH**  
**CHAIR: DR. AMJAD ALI ARAIN**

<b>PRESENTER/ SPEAKER</b>	<b>TITLE</b>	<b>TIME</b>
Kareem Ahmed Narejo	Development of new equations for ASHRAE constant through Maximum Entropy Principle to estimate solar radiation	9:30-9:45 AM
Taimoor Ahmad	Hybrid Image Encryption Algorithm Utilizing DNA Computing, Hyper-Chaotic System, and SHA-512	9:45-10:00 AM
Khalid H. Malik	A Stochastic Sinusoidal Modelling for 11th years Sunspot Cycles	10:00-10:15 AM
Irfan Ali Lashari	A Modified Iterative Technique of Predictor Corrector Type for Solving nonlinear Algebraic and Transcendental Equations in 1D	10:15-10:30 AM
Muhammad Arif	A Hybrid Nonlinear Iterative Method for Solving Nonlinear Equations in One and Higher Dimensions	10:30-10:45 AM
Sania Qureshi	L-stable Explicit Nonlinear Method with Constant and Variable Step-size Formulation for Solving Initial Value Problems	10:45-11:00 AM
<b>TEA BREAK (11:00-11:30 AM)</b>		
Dr. Saba Naz	Archimedean Copula-based Bivariate Flood-Frequency Analysis on Sukkur, Pakistan	11:30-11:45 AM
Faisal Nawaz, Syed Ahmed Hassan	Assessing the impact of global climatic changes on the regional hydrological ecosystems and resources	11:45-12:00 NOON
Ali Asghar, Feroz Shah, Asif Ali, Waqar Sethar	Extracting determinants of Mathematics performance among university students, using natural language processing with topic modeling. A Systematic Review	12:00-12:15 PM
Zohaib Ali Qureshi	Modeling of Divorce Transmission Dynamics	12:15-12:30 PM
Irfan Ali Tunio	Comparative Analysis of Ordinary Differential Equations: Analytical Versus Numerical Solutions Using the RK4 Method	12:30-12:45 PM
Ritesh Walecha	Comparison of different Numerical Techniques to analyze the convergence behavior of Eigen values	12:45-1:00 PM
Wajeeh Malik <b>OR</b> Saifullah	Exploring Basic Mathematical Literacy Skills in Children: A comparative analysis of indoor & outdoor environments. <b>OR</b> Temperature/ Rainfall variability of Hyderabad/ Karachi region by using the Auto regressive Model	1:00-1:15 PM
<b>LUNCH/PRAYER BREAK (1:15 pm- 2:00 pm)</b>		



**DAY-2**

**VENUE 2: SMART SEMINAR ROOM**  
**THEME: BIOLOGICAL MATHEMATICS**  
**MODERATOR: DR. BHOJO MAL**  
**CHAIR: DR. ABDUL MANNAN SHAIKH**

Ahmed Ali	Generalized Equation for Cosine of Zenith Angle	2:00-2:15 PM
Naeem Ahmed	Skin Cancer Detection Using Convolutional Neural Network	2:15-2:30 PM
Bakhtawar Soomro, Shakeel Memon	Study On Cigarette Smoking And Risk Of Lung Cancer Burden From The District Hyderabad.	2:30-2:45 PM
Shakeel Memon, Bakhtawar Soomro	Graves' disease its complications and preventive measures at District Hyderabad	2:45-3:00 PM
Amina Ikram	Mathematical Modeling HIV/AIDS: Incorporating antiretroviral treatment dynamics for comprehensive analysis	3:00-3:15 PM
Amina Ikram	Numerical Insights into the Dynamics of HIV-AIDS Fractional Model with Antiretroviral Therapy	3:15-3:30 PM

**DAY-2****VENUE 3: COMPUTER LAB (GROUND FLOOR), ACADEMIC BLOCK****THEME: FINANCIAL MATHEMATICS****MODERATOR: DR. SHOAB PATHAN****CHAIR: DR.AGA NABI PATHAN**

<b>PRESENTER/ SPEAKER</b>	<b>TITLE</b>	<b>TIME</b>
Dr. Nadir Ali Lanjwani	The empirical analysis of Islamic banking growth and challenges in Pakistan: A case study of Tando Muhammad Khan, Sindh, Pakistan	9:30-9:45 AM
Amber Fatima Abidi	Reflections of Divine Economics in Allama Iqbal's Poetry	9:45-10:00 AM
Saba Zehra	Impact Of Work Stress On Job Performance Of Employees In Banking Sector Of Pakistan	10:00-10:15 AM
Syed Ali Abidi	SDGs, Morality and Collective Well-being- A Divine Economics Analysis.	10:15-10:30 AM
Sajjad Ali Raeesi	A critical review of the scholarly (Hiyya and Mathematics) services of Khwaja Naseeruddin Tusi.	10:30-10:45 AM
Syed Ali Raza Kazmi	Intangible Factors of obtaining & Obstacles of Sustenance in Divine Economics	10:45-11:00 AM
<b>TEA BREAK (11:00-11:30 AM)</b>		
Dr. Madiha Riaz	The Relevance of Islamic Finance in the Contemporary Era: A Reminiscent Composition	11:30-11:45 AM
Dr. Atiq ur Rehman	The Limitations of Quantitative Models in Unveiling Reality: Embracing Divine Guidance in Decision Making	11:45-12:00 NOON
Dr. Liaquat Ali Rahoo	Assessing Mathematics Teachers' and Students' Perceptions of Artificial Intelligence's Inclusion in Mathematics Education	12:00-12:15 PM
Kainat Jamali, Naveeda Katper, Ali Raza Zaidi	An Academic Exploration of the Interconnection between Islamic Social Finance, Human Resource Quality, Governance, and Their Collective Influence on Poverty: A Comprehensive Study	12:15-12:30 PM
Kainat Jamali, Naveeda Katper, Ali R. Zaidi	Leveraging Pilot-Generated Evidence to Promote and Sustain Healthcare Innovations: Exploring the Contribution of Intermediaries in Innovation.	12:30-12:45 PM
Abdul Razaque Larik	Assessing the Impact of Macroeconomic Policies, Technological Innovation and Financial Globalization on CO <sub>2</sub> emissions: New Evidence from Method of Moments Quantile Regression Approach	12:45-1:00 PM
Masood Ahmed	Teachers strategies to overcome intra-class variations while teaching of mathematics as major subject at B.S level.	1:00-1:15 PM
<b>LUNCH/PRAAYER BREAK (1:15 pm- 2:00 pm)</b>		

**DAY-2****VENUE 4: COMPUTER SCIENCE LAB (FIRST FLOOR), ACADEMIC BLOCK  
ONLY FOR ONLINE SESSIONS**

<b>PRESENTER/ SPEAKER</b>	<b>TITLE</b>	<b>TIME</b>
Nadia Allouch	Existence of fractional q-Difference eqs with q-Anti-Periodic and q-Integral Condition in Banach Spaces	9:30-9:45 AM
Nadia Batool, Sadaqat Hussain	Intuitionistic Multi Anti-Fuzzy Sub-Near Ring and Ideals of Near-Ring	9:45-10:00 AM
Nazeran Idrees	QSPR Analysis of Drugs for Treatment of Schizophrenia using Topological Indices	10:00-10:15 AM
Tenaw Tilahun Asmamaw	The Role of Vaccination and Treatment in the Transmission of COVID-19	10:15-10:30 AM
Temesgen Debas Awoke	Sex-structured disease transmission model and control mechanisms for Visceral Leishmaniasis (VL)	10:30-10:45 AM
Emal Elbahi	Periodicity in neutral nonlinear levin-nohel integro-differential equations	10:45-11:00 AM
<b>TEA BREAK (11:00-11:30 AM)</b>		
Ahlem Abdelouahab	Analysis of a simplified tumor growth model with free boundaries	11:30-11:45 AM
Abdelaziz Oulalid	Existence of solution for caputo fractional differential q-Difference inclusions with boundary conditions	11:45-12:00 NOON
Amrish srivastav	Role of Mathematics in Industry and Academia	12:00-12:15 PM
Amitabh Kumar	Solving The Kepler Equation Using Iterations	12:15-12:30 PM
Syed Ali Asad Naqvi	Mathematical Enhancement of Flood Susceptibility Assessment in Jhelum River Sub-Watersheds: A Compound Factor Approach Utilizing Morphometry and GIS.	12:30-12:45 PM
Prof. Naweed Syed	Artificial Intelligence and its future applications in Myriad disciplines	12:45-1:15 PM
<b>LUNCH/PRAAYER BREAK (1:15 pm- 2:00 pm)</b>		
Adane Akate	Solving Multi Objective Fuzzy Binary Integer Linear Fractional Programming Problems Involving Pentagonal and Hexagonal Fuzzy Numbers	2:00-2:15 PM
Hamza Rouah	Five-dimensional porous model: Stability analysis and numerical simulation	2:15-2:30 PM
Khellaf Ould Melha	Stability of Abstract Caputo Fractional Differential equations of Sobolev type with Non-Local conditions.	2:30-2:45 PM
Ruqia Bibi, Mujahid Abbass	Relationship of body size with digestive enzyme activities in wild & farmed Labeo rohita, Cirrhinus mrigala and Catla catla	2:45-3:00 PM
Danish Ali, Abid Hussain	Insights into unknotting operations of Complex Knots	3:00-3:15 PM

**DAY-2****VENUE 5: CHEMISTRY SMART ROOM (FIRST FLOOR), CHEMISTRY BLOCK****THEME: COMPUTATIONAL MATHEMATICS****MODERATOR: DR. SHEEBA****CHAIR: DR. SHAHEEN ABBAS**

<b>PRESENTER/ SPEAKER</b>	<b>TITLE</b>	<b>TIME</b>
Abdul Ali	Examining the potential hazards of AI integration in English language learning: a focus on writing skills for second language learners	9:30-9:45 AM
Asim Irfan, Osama Ahmed Khan, Naresh	Cybersecurity in the Information Age: Strengthening Network Defense with Snort IDS	9:45-10:00 AM
Dodo Khan	Investigating AI's Ethical Complexities: Challenges for Society in the Digital Age	10:00-10:15 AM
Nazir Ahmed Siyal	Artificial Intelligence Or Politically Stable Pakistan: A Choice of Paradigm	10:15-10:30 AM
Syed Faisal ur Rahman	A Block chain-based Approach to Sustainable Development: Tokenized Carbon Credits for Pakistan	10:30-10:45 AM
Wajid Ali	Robust Em Clustering With Feature Selection	10:45-11:00 AM
<b>TEA BREAK (11:00-11:30 AM)</b>		
Dr. Sheeba Memon	State Aware Multiple Choice Routing for Load Balancing in Data Centers	11:30-11:45 AM
Aijaz Akhtar, Abdul Waheed Mahesar	Unveiling Network Dynamics: A Comprehensive Analysis of PTCL Metro Network Using Centrality Measures and Community Detection Algorithms	11:45-12:00 NOON
Muhammad Unaib	Drone Technology & Advanced Environmental Technology	12:00-12:15 PM
Nadia Batool, Sadaqat Hussain	Intuitionistic Multi Anti-Fuzzy Sub-Near Ring and Ideals of Near-Ring	12:15-12:30 PM
Sadaqat Hussain, Mustafa Ali	Intuitionistic Multi Anti Fuzzy – Normed Normal Subring And Ideals	12:30-12:45 PM
Mazz shahroz	Machine Learning for Precise Navigation: Current Trends and Future Perspectives	12:45-1:00 PM
Hanzala, Muhammad Unaib	Intelligent Greenhouse with Automated Environmental Management	1:00-1:15 PM
<b>LUNCH/PRAYER BREAK (1:15 pm- 2:00 pm)</b>		

**CLOSING CEREMONY**  
**DAY-2**  
**SATURDAY, APRIL 27<sup>th</sup>, 2024**  
**VENUE: ASSEMBLY HALL, GCUH**

GUESTS TO BE SEATED	3:30 PM
ARRIVAL OF CHIEF GUEST	3:35 PM
RECITATION OF HOLY QURAN	3:40 PM
NATIONAL ANTHEM OF PAKISTAN	3:45 PM
CONFERENCE OVERVIEW & RECOMMENDATIONS: <b>PROF: DR. BASHIR AHMED</b> DEAN, SUFFA DHA UNIVERSITY, KARACHI	3:50 PM
REMARKS BY VC, GCUH	4:10 PM
REMARKS BY CHIEF GUEST	4:20 PM
DISTRIBUTION OF SHIELDS/SOUVENIRS	4:30 PM
VOTE OF THANKS	4:40 PM
GROUP PHOTO AND CLOSING OF CONFERENCE	4:45 PM