

**2nd International Conference on Mathematical Analysis and Applications (MAA 2025)**  
(In Honour of Prof. Ram N. Mohapatra, University of Central Florida, USA, on the occasion of his retirement)

August 06-07, 2025,

Website: <https://maanitsr.github.io>

**SCHEDULE (Tentative)**

Time is in IST (UTC+5:30) Format (Indian Standard Time)

Day 01: August 06, 2025		Google Meet Link
09:00-09:30	<b>INAUGURAL FUNCTION</b> <b>Chief Guest: Prof. Ram N. Mohapatra</b> (University of Central Florida, USA)	<a href="https://meet.google.com/oyo-etwm-qrc">https://meet.google.com/oyo-etwm-qrc</a>
09:40-10:30	<b>Prof. Ram N. Mohapatra</b> (University of Central Florida, USA) <b>Title of Talk: Minimax Techniques in Optimal Control Problems and Machine Learning</b> (Session Chair: Prof. A. Swaminathan (IIT Roorkee))	
10:40-11:10	<b>Prof. A. Swaminathan</b> (Indian Institute of Technology Roorkee, India) <b>Title of Talk: Ratio of hypergeometric functions in Function Spaces</b> (Session Chair: Dr. Subha Sarkar (NIT Jamshedpur))	
11:20-11:50	<b>Dr. Sheila M. Menchavez</b> (MSU- Iligan Institute of Technology, Philippines) <b>Title of Talk: Biorthogonal Approach to Fractional Poisson Analysis</b> (Session Chair: Dr. Subha Sarkar (NIT Jamshedpur))	
12:00-13:30	<b>Contributed Talk (Session 1)</b> (Session Chair: Dr. Shakti Prasad (NIT Jamshedpur))	
12:00-13:30	<b>Contributed Talk (Session 2)</b> (Session Chair: Dr. Anish Kumar (Dr. Shyama Prasad Mukherjee University, India))	<a href="https://meet.google.com/obt-gvuc-ijr">https://meet.google.com/obt-gvuc-ijr</a>
<b>BREAK</b>		
15:00-15:30	<b>Prof. Árpád Baricz</b> (Babeş-Bolyai University, Cluj-Napoca, Romania Óbuda University, Budapest, Hungary) <b>Title of Talk: Infinitely divisible distributions involving modified Bessel functions</b> (Session Chair: Prof. Saiful Rahman Mondal (King Faisal University, Saudi Arabia))	<a href="https://meet.google.com/oyo-etwm-qrc">https://meet.google.com/oyo-etwm-qrc</a>
15:45-17:15	<b>Contributed Talk (Session 3)</b> (Session Chair: Dr. Ajit Kumar Singh (SVKM's NMIMS Indore, India))	
15:45-17:15	<b>Contributed Talk (Session 4)</b> (Session Chair: Dr. Rajat Kaushik (RIE, NCERT, Bhopal))	<a href="https://meet.google.com/obt-gvuc-ijr">https://meet.google.com/obt-gvuc-ijr</a>
17:45-18:15	<b>Prof. Carla M. A. Pinto</b> (ISEP-Polytechnic of Porto, Portugal) <b>Title of Talk: The Good, the Bad, and the Evil: A Comprehensive Analysis of Fractional Derivatives in Epidemiological Modeling</b> (Session Chair: Dr. Rajat Tripathi (NIT Jamshedpur))	<a href="https://meet.google.com/oyo-etwm-qrc">https://meet.google.com/oyo-etwm-qrc</a>
18:20-18:50	<b>Prof. Howard Cohl</b> (National Institute of Standards and Technology, USA) <b>Title of Talk: Product integral representations for Jacobi functions of the first and second kind, Nicholson-type formulas and integral addition theorems</b> (Session Chair: Dr. Rajat Tripathi (NIT Jamshedpur))	
19:00-19:30	<b>Dr. Anurag Shukla</b> (Rajkiya Engineering College, Kannauj, India) <b>Title of Talk: Solvability of Nonlinear Differential Equations</b> (Session Chair: Dr. Rajat Tripathi (NIT Jamshedpur))	

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Day 02: August 07, 2025		Google Meet Link
09:00-10:30	<b>Contributed Talks (Session 5)</b> (Session Chair: Dr. Rakesh Kumar Meena (JNU, Delhi))	<a href="https://meet.google.com/oyo-etwm-grc?hs=122&amp;authuser=0">https://meet.google.com/oyo-etwm-grc?hs=122&amp;authuser=0</a>
09:00-10:30	<b>Contributed Talks (Session 6)</b> (Session Chair: Dr. M. Pushpa Latha (S.R.K.R. Engineering College, India))	<a href="https://meet.google.com/obt-gvuc-jjr">https://meet.google.com/obt-gvuc-jjr</a>
11:00-11:30 (Session 1)	<b>Dr. Rajitha Ranasinghe</b> (University of Peradeniya, Srilanka) <b>Title of Talk: Toward a Unified Theory of Bernstein and Markov-type Inequalities in Polynomial, Rational, and q-Difference Settings</b> (Session Chair: Dr. Y. Ramu Naidu (NIT Jamshedpur))	<a href="https://meet.google.com/oyo-etwm-grc?hs=122&amp;authuser=0">https://meet.google.com/oyo-etwm-grc?hs=122&amp;authuser=0</a>
11:00-11:30 (Session 2)	<b>Dr. Subhas Khajanchi</b> (Presidency University, India) <b>Title of Talk: A Data-Driven Study for the Complex Dynamics of Malignant Gliomas</b> (Session Chair: Dr. Snehasis Kundu (NIT Jamshedpur))	<a href="https://meet.google.com/obt-gvuc-jjr">https://meet.google.com/obt-gvuc-jjr</a>
11:30-12:00	<b>Dr. Ratikanta Behera</b> (Indian Institute of Science, Bangalore, India) <b>Title of Talk: Importance of Tensors in Scientific Computing and Data Science</b> (Session Chair: Dr. Y. Ramu Naidu (NIT Jamshedpur))	<a href="https://meet.google.com/oyo-etwm-grc?hs=122&amp;authuser=0">https://meet.google.com/oyo-etwm-grc?hs=122&amp;authuser=0</a>
12:05-12:35	<b>Dr. Bappaditya Bhowmik</b> (Indian Institute of Technology Kharagpur, India) <b>Title of Talk: Length distortion of curves under meromorphic univalent mappings</b> (Session Chair: Dr. Sumit Kumar Debnath (NIT Jamshedpur))	
12:40-13:10 (Session 1)	<b>Dr. Sriram Balasubramanian</b> (Indian Institute of Technology Madras, India) <b>Title of Talk: <math>C^*</math>-extreme entanglement breaking maps on operator systems</b> (Session Chair: Dr. Kanailal Mahato)	
12:40-13:10 (Session 2)	<b>Dr. Rajat Kaushik</b> (Regional Institute of Education, Bhopal, India) <b>Title of Talk: Mathematical analysis of Predator-Prey systems and their applications in real-world ecological scenarios</b> (Session Chair: Dr. Samiran Chakraborty (NIT Jamshedpur))	<a href="https://meet.google.com/obt-gvuc-jjr">https://meet.google.com/obt-gvuc-jjr</a>
<b>BREAK</b>		
15:00-15:30	<b>Dr. Khaled Mehrez</b> (Universite Tunis El Manar, Tunisia) <b>Title of Talk: Bounds for Tur'an-Type inequalities of Sections of Certain Subclasses of Fox–Wright Functions</b> (Session Chair: Dr. Ratnesh Kumar Mishra (NIT Jamshedpur))	<a href="https://meet.google.com/oyo-etwm-grc?hs=122&amp;authuser=0">https://meet.google.com/oyo-etwm-grc?hs=122&amp;authuser=0</a>
15:40-16:10	<b>Prof. Saiful Rahman Mondal</b> (King Faisal University, Saudi Arabia) <b>Title of Talk: Geometric features of solutions of the second-order differential equations</b> (Session Chair: Dr. Ratnesh Kumar Mishra (NIT Jamshedpur))	
17:00-17:30	<b>Valedictory Session</b> <b>Chief Guest: Prof. A. Swaminathan</b> (Indian Institute of Technology Roorkee, India)	

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**Contributed Talk (Session 1): Date- August 06, 2025; Time- 12:00 to 13:30 (IST)**

**Google Meet Link:** <https://meet.google.com/oyo-etwm-qrc>

**Session Chair:** Dr. Shakti Prasad (NIT Jamshedpur, India)

ID	AUTHOR	TITLE OF TALK
271	Gayatri Pany	Inertial dynamics in the context of generalized convexity
240	Abey Kelil	A Modified Adomian Decomposition Method using New Integral Transform for solving some Dispersive KdV Equations
97	Pirivina S	On generalized extended Srivastava's triple hypergeometric function and associated properties
236	Tanuj Kumar	Study of Linear Canonical Hankel Wavelet Transform
256	Prasadini Mahapatra	Generalized Wavelet Systems and Multiresolution Analysis on Cantor Dyadic and Vilenkin Groups
73	Gopal Priyadarshi	Numerical solution of hyperbolic inverse partial differential equations using Taylor wavelet method
86	Nidhi Shukla	Controllability of Impulsive Stochastic Differential Equations
235	Manish Raghav	CHAIN PROPERTIES OF NON-AUTONOMOUS SYSTEMS UNDER UNIFORM CONVERGENCE
275	Shraban Das	Coupled potential and $L^p$ Sobolev type spaces associated with coupled fractional Fourier transform

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**Contributed Talk (Session 2): Date- August 06, 2025; Time- 12:00 to 13:30 (IST)**

**Google Meet Link:** <https://meet.google.com/obt-gvuc-ijr>

**Session Chair: Dr. Anish Kumar (Dr. Shyama Prasad Mukherjee University, India)**

ID	AUTHOR	TITLE OF TALK
36	Jeet Sarkar	ENTIRE FUNCTIONS SHARING TWO SMALL FUNCTIONS IM WITH THEIR DIFFERENTIAL-DIFFERENCE OPERATORS
79	Barun Katoch	Strong Convergence and Stability Analysis of $\mathfrak{B}_{\mathfrak{K}}$ Iterative Method for Nonlinear Fixed Point Problem
109	Lakshika Chutani	Analysis of Specific Properties of Entire Dirichlet Series in Several Complex Variables
127	Vinod Jatav	Exploring Unified Integral Forms of the Generalized Mittag-Leffler Type Function
203	Ankit Pal	Generalized integral transforms pertaining to five-parameter Mittag-Leffler (ML) function
232	Md Azizul Hoque	Iteration of Entire Functions with Finite Proximate Order : Sharing Three Values IM
233	Vinay Shukla	Complex zeros of generic $\mathcal{R}_{II}$ type polynomials
110	Agnihotri Roy	A class of generalized Mathieu-type series with associated properties and probability distributions

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**Contributed Talk (Session 3): Date- August 06, 2025; Time- 15:45 to 17:15 (IST)**

**Google Meet Link:** <https://meet.google.com/oyo-etwm-qrc>

**Session Chair:** Dr. Ajit Kumar Singh (SVKM's NMIMS Indore, India)

ID	AUTHOR	TITLE OF TALK
30	TANMOY BARMAN	BOUNDEDNESS OF GENERALIZED ONE-SIDED MAXIMAL OPERATOR ON WEIGHTED ONE-SIDED MORREY SPACES
53	Snehasis Bera	Indefinite inner product on Bicomplex topological modules
37	Uthara S	On Extended Voigt-Type Functions Involving Neumann Function and Their Related Bounds
122	Sahil Berwal	Generalized Stancu-Durrmeyer type Operators: Voronovskaya Theorems, Gruss Inequalities and Approximation Behavior
12	Mohabbat Ali	Geometry of Projective Curvature Tensor on a Riemannian Manifold
237	Vikas Srivastava	p-adic Analytical Methods for Solving the Discrete Logarithm Problem on Certain Classes of Elliptic Curves over Finite Fields
245	Anish Kumar	Certain geometric properties of Rabotnov function
276	Shubhanshu Arya	Pseudo-differential operators associated with the gyrator transform on some ultra-differentiable function space
247	B Sagar	Numerical simulation of fractional foam drainage equation modeling fluid flow

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**Contributed Talk (Session 4): Date- August 06, 2025; Time- 15:45 to 17:15 (IST)**

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**Session Chair:** Dr. Rajat Kaushik (RIE, NCERT, Bhopal, India)

ID	AUTHOR	TITLE OF TALK
119	Dipankar Saha	Mathematical analysis of the Caputo Fabrizio E cigarette model
155	Mitali Maji	Application of control theory in an Alzheimer's disease mathematical model
106	K Ramya	Fractional Tikhonov regularization on non-homogeneous fractional backward heat conduction problems
133	SHADIYA NASRIN K B	Mittag-Leffler Regression Model for Fenoprofen Data
228	Mahmoud Moustafa	Dynamical Analysis of Hantavirus Infection Model
145	Nimai Sarkar	Analyzing Criteria for the Existence of Solution and UH Stability, Asymptotic Behavior of Fractional-Order Nonlinear Volterra Integro-Differential Equations Across Arbitrary Time Scales
246	Turhan Koprubasi	The properties for the inverse scattering problems of eigenparameter-dependent discrete Sturm-Liouville and Dirac operators
253	Nesrine IDIOU	Frailty model and dependence structure for bivariate survival data
255	Shankhadeep Mondal	A Unified Approach to Dual Frame and Dual Pair Optimality for Frame Erasures

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**Contributed Talk (Session 5): Date- August 07, 2025; Time- 09:00 to 10:30 (IST)**

**Google Meet Link:** <https://meet.google.com/oyo-etwm-grc>

**Session Chair: Dr. Rakesh Kumar Meena (JNU, India)**

ID	AUTHOR	TITLE OF TALK
47	Bishal Sonar	Spectral Applications of the Closed Neighbourhood Corona Product of Graphs
183	Rachna Sachdeva	Certain classes of $\mathbb{S}$ -restricted $n$ -color compositions
229	Mehsin Atteya	Stability of Hyper $n$ -Homomorphisms and Hyper $n$ -Derivations in Ternary Algebras
241	Tapaswini Mohanty	Fourier Analysis in Finite Fields and the Role of the Number Theoretic Transform in Polynomial Multiplication
242	Neha Neha	Two-Parameter Quantum Numbers and Factorials: A Comprehensive approach
101	Md Moid Shaikh	Partition regularity of $a+b=cd$ Near Zero
182	Shamik Chatterjee	On A Graph Over $C^*(X)$
251	Avishek Bist	Linearizations of Quadratic Two-Parameter Matrix Polynomials Via Newton Basis
140	Kokila Jayakumar	Parameter Estimation for the Fractional Pharmacokinetics Compartment Models

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**Contributed Talk (Session 6): Date- August 07, 2025; Time- 09:00 to 10:30 (IST)**

**Google Meet Link:** <https://meet.google.com/obt-gvuc-ijr>

**Session Chair: Dr. M. Pushpa Latha (S.R.K.R. Engineering College, India)**

ID	AUTHOR	TITLE OF TALK
113	Gannamaneni Charan	Profit investigation for partial batch service queueing system with balking
150	Nipa Biswas	Memory Effects on Inventory Model of Deteriorating Products with Discount Policy
169	Sharad Chaudhary	Transient analysis of DSTATCOM system under P, PD, PI and PID controllers
204	Bikram Dholey	Shear Horizontal Wave Dynamics in Smart Porous–Piezoelectric Systems with Electrically Induced Coupled Spring-Type Interface
224	Sonu Ram	INERTIAL BASED ALGORITHM FOR ASYMPTOTICALLY DEMICONTRACTIVE OPERATORS IN THE CONTEXT OF THE SCFPP
243	Nidhi Shukla	Stochastic Control Systems: From Mathematical Foundations to Engineering Implementation - A Comprehensive Survey
194	MUSKAAN SAINI	Application of triple orbit queue in healthcare sector
266	Auni Aslah Mat Daud	On The Non-Negativity and Boundedness of Solutions of Compartmental Models with Non-Negative Initial Conditions