

# Hybrid 3rd International Conference on Recent Developments in Engineering and Technology (ICRDET-2022)



**February 25 - 26, 2022**

Jointly organized by

**Rajasthan Technical University, Kota**

&

**Anand International College of Engineering, Jaipur**



**ANAND**  
INTERNATIONAL COLLEGE  
OF ENGINEERING

## CONFERENCE SCHEDULE

Day-1, 25.02.2022-Friday		
<b>ZOOM LINK:</b> <a href="https://zoom.us/j/97277476880?pwd=YzNKVVJEc3ltNGdEZnpBbEJrOUxEQT09">https://zoom.us/j/97277476880?pwd=YzNKVVJEc3ltNGdEZnpBbEJrOUxEQT09</a>		
Between Hours	Activity Name	Session Chair
09:00am– 01:00pm	Morning Session	Prof. Mani Mehra Prof. Santanu Saha Ray Prof. Rajesh Kumar Prof. Jyotindra Prajapati Prof. Praveen Agarwal
Time	Keynote Speaker	Presentation Titles
09:00am– 09:30am	Keynote Talk 1 Prof. Arni S.R. Srinivasa Rao	Artificial Intelligence and Exact Deep Learning Machines
09:30am-10:30am	Inaugural Session	
Time	Keynote/Invited Speaker	Presentation Titles
10:30am – 10:45am	Invited Talk-1 Prof. Samad Noeiaghdam	The CESTAC Method to Validate the Results of Volterra Integral Equations Arising in the Load Leveling Problem
10:45am-11:00 am	Invited Talk-2 Prof. Ruzana Pskhu	Digital Indology. Some remarks and suggestions
11:00am-11:15 am	Invited Talk-3 Prof. Amit Kumar Verma	Some new existence results for a class of nonlinear SBVP arising epitaxial growth
11:15am – 11:30am	Invited Talk-4 Prof. Tunde Joseph Taiwo	Inverse Source problems for Partial Differential Equations involving Fractional Derivatives
11:30am-12:30pm	Paper Presentation Parallel Sessions	<b>GOOGLE MEET LINK:</b> Parallel Session A: <a href="https://meet.google.com/udq-dqcv-pac">https://meet.google.com/udq-dqcv-pac</a> Parallel Session B: <a href="https://meet.google.com/jqh-xidy-ecz">https://meet.google.com/jqh-xidy-ecz</a>
12:30 pm– 01:00pm	Keynote Talk- 2 Prof. Dumitru Baleanu	Fractional Generalised Operators With Applications: A Point Of View
01:00pm-01:30pm	LUNCH	
Between Hours	Activity Name	Session Chair
01:30 pm– 04:00pm	Evening Session	Prof. Dumitru Baleanu Prof. Dhananjay Gopal Prof. Amit Kumar Verma Prof. Hemen Dutta Prof. Bhavana Mathur
Time	Keynote/Invited Speaker	Presentation Titles
01:30 pm– 02:00pm	Keynote Talk- 3 Prof. Valentina E. Balas	Phase Trajectory Qualitative Analysis and Applications
02:00 pm– 02:15pm	Invited Talk-5 Prof. Bhaskar Roy	A study of turbine failure pattern – a model optimization using Machine Learning
02:15 pm– 02:30pm	Invited Talk-6 Prof. Santanu Saha Ray	Analytical and Numerical Methods in Modelling Riesz Fractional Nonlinear Schrödinger Equation in Quantum Mechanics
02:30 pm– 02:45pm	Invited Talk-7 Prof. Jochen Merker	Mathematical models of non-local interaction
02:45pm-03:45pm	Paper Presentation Parallel Sessions	<b>GOOGLE MEET LINK:</b> Parallel Session A: <a href="https://meet.google.com/udq-dqcv-pac">https://meet.google.com/udq-dqcv-pac</a> Parallel Session B: <a href="https://meet.google.com/jqh-xidy-ecz">https://meet.google.com/jqh-xidy-ecz</a>
03:45 pm– 04:00pm	Invited Talk-8 Prof. Carla M. A. Pinto	Latent reservoir replenishment by pyroptosis and superinfection in a HIV transmission model

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## Day-2, 26.02.2022-Saturday

### ZOOM LINK:

<https://zoom.us/j/97277476880?pwd=YzNKVVJEc3ltNGdEZnpBbEJrOUxEQT09>

Between Hours	Activity Name	Session Chair
09:10 am– 01:00pm	Morning Session-I	Prof. Nehad Ali Shah Prof. Carla M. A. Pinto Prof. Yogendra Kumar Mishra Prof. ShamsForruque Ahmed Prof. Praveen Agarwal
Time	Keynote/Invited Speaker	Presentation Titles
09:10am – 09:40am	Keynote Talk- 4 Prof. Martin Bohner	Hyers-Ulam and Hyers-Ulam-Rassias Stability of First-Order Linear and Nonlinear Dynamic Equations
10:00am – 10:15am	Invited Talk-9 Prof. Mani Mehra	Machine learning of fractional differentialequations
10:15am – 10:30am	Invited Talk-10 Prof. Rajesh Kumar	PC-GNN for limb activity recognition
10:30am – 10:45am	Invited Talk-11 Prof. JyotindraPrajapati	Volterra Integral Equation and its solution
10:45am – 11:00am	Invited Talk-12 Prof. DhananjayGopal	On The Topology of non-triangular metric spacesand related fixed point results
11:00am – 11:15am	Invited Talk-13 Prof. GrienggraiRajchakit	An application of neural networks for traffic problems
Between Hours	Activity Name	Session Chair
11:15am – 01:00pm	Morning Session-II	Prof. Martin Bohner Prof. Mani Mehra Prof. GrienggraiRajchakit Prof. Amit Kumar Verma Prof. BhavanaMathur
Time	Keynote/Invited Speaker	Presentation Titles
11:15am – 11:30am	Invited Talk-14 Prof. Nehad Ali Shah	Effects of generalized thermal transport on the unsteady convective flows over a vertical cylinder with time-dependent temperature
11:30am-11:45am	Invited Talk-15 Prof. Wen-Feng Wang	Understanding the structure of a machine brain
11:45am-12:00am	Invited Talk-16 Prof. ShamsForruque Ahmed	Physical, hybrid and data-driven modeling techniques of Earth-air heat exchangers for reducing building energy consumption
12:00pm-01:00pm	Paper Presentation Parallel Sessions	<b>GOOGLE MEET LINK:</b> Parallel Session A: <a href="https://meet.google.com/udq-dqcy-pac">https://meet.google.com/udq-dqcy-pac</a> Parallel Session B: <a href="https://meet.google.com/jqh-xidy-ecz">https://meet.google.com/jqh-xidy-ecz</a>
01:00pm-01:30pm	<b>LUNCH</b>	
Between Hours	Activity Name	Session Chair
01:30 pm– 04:00pm	Evening Session	Prof. DumitruBaleanu Prof. Valentina E. Balas Prof. Carla M. A. Pinto Prof. Praveen Agarwal Prof. BhavanaMathur
Time	Keynote/Invited Speaker	Presentation Titles
02:00 pm– 02:30pm	Keynote Talk-5 Prof. Carlo Cattani	Haar Wavelet Fractional Derivative
02:30 pm– 02:45pm	Invited Talk-17 Prof. HemenDutta	An introduction to functional equations and their stability analysis
02:45 pm– 03:15pm	Keynote Talk-6 Prof. Yogendra Kumar Mishra	Tetrapods based Smart Materials for AdvancedTechnologies
03:15 pm– 03:45pm	<b>Valedictory Session</b>	

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## PAPER PRESENTATION SCHEDULE

**Day-1, 25.02.2022-Friday**

**GOOGLE MEET LINK:**

**Parallel Session A:** <https://meet.google.com/udq-dqcv-pac>

**Parallel Session B:** <https://meet.google.com/jqh-xidy-ecz>

Between Hours	Activity Name	Session Chair
11:30 am to 12: 30 pm	Parallel Session A	Prof. Praveen Agarwal Prof. BhavanaMathur Er. PramilSinha Prof. SanjanaChugh
Time	ICRDET Paper Id	Presentation Titles
11:30 am -11:35 am	ICRDET-2022-1001	Analyzing Mathematical Models of Tumor Growth
11:35 am -11:40 am	ICRDET -2022-2001	Replacement of Fine aggregates in Concrete_A study on various Agro-wastes
11:40 am -11:45 am	ICRDET-2022-1002	New abundant exact solutions for MCBS-nMCBS
11:45 am -11:50 am	ICRDET -2022-2002	Structure Strength Check and Repair Technique of RCC Structures
11:50 am -11:55 am	ICRDET-2022-1017	SVMBH:Support Vector Machine Based Hate Speech Detection in COVID-19 Era.
11:55 am -12:00 noon	ICRDET -2022-2003	An Integration of Taguchi's approach and artificial neural network in parametric optimization and prediction of harness value of stir casted AL 6063 reinforced with Sic
12:01 pm-12:05 pm	ICRDET-2022-1004	Monitoring the CO2 level indoors and determining the need for ventilation
12:05 pm-12:10 pm	ICRDET -2022-2004	CCTV Image Authentication using Digital Watermarking
Between Hours	Activity Name	Session Chair
11:30 am to 12: 30 pm	Parallel Session B	Prof. Praveen Agarwal Prof. BhavanaMathur Er. Shiv Kr. S Er. VivekBhojak
Time	ICRDET Paper Id	Presentation Titles
11:30 am -11:35 am	ICRDET-2022-1005	Dynamical transmission of fractional-order SEIQRD model of COVID-19
11:35 am -11:40 am	ICRDET -2022-2005	Optimization of Process Parameters of Friction Stir Welding of Two Dissimilar Mg alloys like AZ31 and AZ91
11:40 am -11:45 am	ICRDET-2022-1006	Solution of non-linear fractional partial differential equations using homotopy analysis.
11:45 am -11:50 am	ICRDET -2022-2006	A mathematical study on the polymerization shrinkage and its effect on dental restorative material.
11:50 am -11:55 am	ICRDET -2022-2007	A Comparative Study on thermodynamics properties of Se-Te- Zn and Se-Te-Ag Ternary Chalcogenide Glasses
11:55 am -12:00 noon	ICRDET-2022-1007	The Appraisal of the Engineering Properties of Gravel from Some Selected Locations in Southwestern Nigeria for Concrete Production
12:01 pm-12:05 pm	ICRDET -2022-2008	Integral representation of mathieu-type series associated with extended hypergeometric functions
12:05 pm-12:10 pm	ICRDET-2022-1008	Distance Measure for Triangular Fuzzy Numbers in University Selection under TOPSIS Environment

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## Day-1, 25.02.2022-Friday

### GOOGLE MEET LINK:

Parallel Session A: <https://meet.google.com/udq-dqcv-pac>

Parallel Session B: <https://meet.google.com/jgh-xidy-ecz>

Between Hours	Activity Name	Session Chair
02:45 pm to 3:45 pm	Parallel Session A	Prof. Praveen Agarwal Prof. BhavanaMathur Prof. Sushmita Sharma Mr. SandeepJaiman
Time	ICRDET Paper Id	Presentation Titles
02:45 pm to 02:50 pm	ICRDET -2022-2009	A Study on "Environment Friendly Concrete"
02:50 pm to 02:55 pm	ICRDET-2022-1009	Multi-objective Newsboy problem with random fuzzy demand
02:55 pm to 03:00 pm	ICRDET -2022-2010	Design and Simulation of C2N based solar cell by SCAPS-1D
03:00 pm to 03:05 pm	ICRDET-2022-1010	Scaffolds for tissue engineering applications: a review
03:05 pm to 03:10 pm	ICRDET-2022-1011	COVID-19 spread prediction using modified SIRD model for districts of Rajasthan.
03:10 pm to 03:15 pm	ICRDET -2022-2011	UPVC Compression Members Behaviours Double Skin Tubular
03:15 pm to 03:20 pm	ICRDET-2022-1012	A Novel Approach Based On ChipHighSpeed OpticalTransceiver using 1cm length Optical Fiber
03:25 pm to 03:30 pm	ICRDET -2022-2012	Optical gain investigation of nano scale heterostructureGaInP/AlGaInP red laser
Between Hours	Activity Name	Session Chair
02:45 pm to 3:45 pm	Parallel Session B	Prof. Praveen Agarwal Prof. BhavanaMathur Mr. Prashant Joshi Ms. RiddhiBhardwaj
Time	ICRDET Paper Id	Presentation Titles
02:45 pm to 02:50 pm	ICRDET-2022-1013	A comprehensive review of various attacks in Mobile Ad Hoc Networks.
02:50 pm to 02:55 pm	ICRDET -2022-2013	An audio Steganographic technique based on Vedic numeric code
02:55 pm to 03:00 pm	ICRDET -2022-2014	Analyzing a Flexible Pavement with IIT-Pave As per IRC: 37:2018
03:00 pm to 03:05 pm	ICRDET-2022-1014	Tumor Detection Using CNN Based Neural Network
03:05 pm to 03:10 pm	ICRDET -2022-2015	Electric vehicles: an alternative to conventional vehicles
03:10 pm to 03:15 pm	ICRDET-2022-1015	Numerical Prediction of the Pull-Out Resisting Capacity of Granular Pile Anchor
03:15 pm to 03:20 pm	ICRDET-2022-1016	Unwillingness for Vaccination in India: Real-Life Data Application with Queueing Analysis of Covid-19 Model
03:25 pm to 03:30 pm	ICRDET -2022-2016	Power Quality Improvement using Active Power Filter.



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## PAPER PRESENTATION SCHEDULE

**Day-2, 26.02.2022 Saturday**

**GOOGLE MEET LINK:**

**Parallel Session A:** <https://meet.google.com/udq-dqcv-pac>

**Parallel Session B:** <https://meet.google.com/jqh-xidv-ecz>

Between Hours	Activity Name	Session Chair
12:00 pm to 01:00 pm	<b>Parallel Session A</b>	Prof. Praveen Agarwal Prof. BhavanaMathur Prof. Anil Dhawan Er. VivekBhojak
Time	ICRDET Paper Id	Presentation Titles
12:00 pm to 12:05 pm	ICRDET-2022-1003	Comparative Analysis of Live Migration Methodologies
12:05pm to 12:10 pm	ICRDET -2022-2017	A Review on Recycling Plastic Waste into Sustainable, Valuable and Useful Products
12:10pm to 12:15 pm	ICRDET-2022-1018	Urgent Vacation Strategy for Discrete-time Retrial Queue with Bulk Arrivals
12:15 pm to 12:20 pm	ICRDET -2022-2018	A Review of Applications of Biopolymeric Membranes in Removal of Organic Pollutant and Micro pollutants from Wastewater.
12:20 pm to 12:25 pm	ICRDET-2022-1019	On A-Fractional Analysis
12:25pm to 12:30 pm	ICRDET-2022-2019	Chronological Review of Electrical Vehicle Technology
12:30 pm to 12:35 pm	ICRDET -2022-2020	A Review Paper on Performance analysis of Mobility adaptive Slotted CSMA/CA MAC protocol for Mobile IEEE802.15.4 Wireless Sensor Networks
12:35 pm to 12:40 pm	ICRDET -2022-2021	A Review on Transmission Line Protection Schemes
12:40pm to 12:45 pm	ICRDET -2022-1022	Dynamical Modelling Analysis using Different materials of Capacitive Pressure Sensor Applications

Between Hours	Activity Name	Session Chair
12:00 pm to 01:00 pm	<b>Parallel Session B</b>	Prof. Praveen Agarwal Prof. BhavanaMathur Er. Shiv Kr. S Er. NeerajMangalani
Time	ICRDET Paper Id	Presentation Titles
12:00 pm to 12:05 pm	ICRDET -2022-2022	Role of nanoscience and nanotechnology in improving the efficiency of solar cell - graphene sheets in solar cell.
12:05pm to 12:10 pm	ICRDET -2022-2023	Fractional integrals using generalized Bessel Function associated with generalized fractional Calculus operators
12:10pm to 12:15 pm	ICRDET-2022-1020	On equality of inner automorphisms group with different automorphism group
12:15 pm to 12:20 pm	ICRDET-2022-2024	Mathematical Modelling and Analysis of Diesel-BiodieselEthanol blends and Tio2 Addition effects into the Combustion and Emissions Characteristics in CI Engine
12:20 pm to 12:25 pm	ICRDET -2022-2025	Study of Mechanical Properties of Stir Casted Al 6063 Alloy Reinforced with Fly ash
12:25pm to 12:30 pm	ICRDET-2022-1021	Generalized fractional Integral formulas involving the product of hypergeometric functions and Fox's H-functions
12:30 pm to 12:35 pm	ICRDET-2022-2026	Impact of Various Combustibles on Refractory Brick Thermal Insulation
12:35 pm to 12:40 pm	ICRDET-2022-2027	Performance Analysis of Wire Electric Discharge Machining on D-3 Die Material by Artificial Neural Network
12:40pm to 12:45 pm	ICRDET-2022-2028	Noise Detection and Removal Filtering Techniques in Medical Image