Tentative Technical Schedule of UNIFIED 2024 Conference at MNIT Jaipur

26 th NOVEMBER 2024 (Tuesday)						
10.00 am - 10.30 am	Registration					
10:30 AM to 11:30 AM	Inaugural Function, Venue: Neeti Sabhagaar, MNIT Jaipur					
11:30 AM-12 PM	High tea					
12 PM- 1 PM	Prof. Ud	Key note session lay Kumar (Lulia University, Swededn), Prof. Andrew Ball (University o	f Huddersfield, U.K.)			
1 PM-2 PM	Lunch					
Time	Session A Session Chair: Dr. Om Ji Shukla (Assistant Professor,NIT Patna) Track Owner: Dr. Naresh Raghuvanshi (Assistant Professor, MNIT Jaipur)	Session B Session Chair: Dr. Mangey Ram (Professor, Graphic Era, Dehradun) Track owner: Dr. Gulab Pamnani (Assistant Professor, MNIT Jaipur)	Session C Session Chair: Dr. Anup Malik (Assistant Professor, MNIT Jaipur) Track owner: Dr. Nikhil Sharma (Assistant Professor, MNIT Jaipur)			
	UNIFIED Rep: Siddharth Singh(6263744910) Pardhuman chahar(8963859013) Venue: NKN-1	UNIFIED Rep: Puspendra Upadhyay(9929334868) Rahul Sharma(9358104640) Venue: Neeti Sabhagaar	UNIFIED Rep: Vishnu(9251762768) Suyesh Wankhede(9082810006) Venue: NKN-2			
2:00 PM to 2:15	UNIFIED_2024_02 Artificial Intelligence to Measure Idle Time of An Assembly Line Worker	UNIFIED_2024_04 Predictive Modeling of Surface Roughness in Abrasive Machining Operation Using Machine Learning	UNIFIED_2024_11 Performance Evaluation of an Electric Vehicle System under Multistate Modelling			
PM	Divya Shrivastava	Gajesh Gopal S. Usgaonkar	Labhanshi Vashishtha			
2:15 PM to 2:30	UNIFIED_2024_05 Biometric based Secured Voting System for Election	UNIFIED_2024_08 Bearing Fault Diagnosis and Generalization Error Analysis Based on Transfer Learning	UNIFIED_2024_25 An ultrasonic-based novel method for condition monitoring of lithium-ion batteries			
PM	Ravindra Pratap Narwaria	Tingting Deng	Lei Fu			

2:30 PM to 2:45	UNIFIED_2024_12 Reliability Analysis of Complex System using Markov Process and Neural Network Algorithm	UNIFIED_2024_14 Maximizing Reliability of Hybrid Energy System: A Comparison between Mayfly and Driving Training-Based Optimization Algorithm	UNIFIED_2024_51 Electric Mobility in Urban India: Tackling Technological and Infrastructure Hurdles
PM	Deepanshi Chauhan	Jaya choudhary	Abhishek Das
2:45 PM to	UNIFIED_2024_33 Denial-of-Service (DOS): Adaptive Approach and Strategies	UNIFIED 2024_27 Brittle Fracture Analysis using Phase Field	UNIFIED_2024_53 Design, analysis and development of an efficient thermal management system for electric vehicles
3:00 PM	Monika Rani	Pushpendra Upadhyay	Parag K. Muley
			UNIFIED_2024_54
3:00 PM to	UNIFIED_2024_44 A Blockchain architecture for healthcare waste management practices-An Indian	UNIFIED 2024_30 A Novel Method for Damage Identification of Frame Structures	Characterizing of the Electromechanical Transmissions in the FDM 3D Printing Process Enables Condition Monitoring via Multi-information
3:15	Case	using Extended Improved Particle Swarm Optimization Technique	Fusion
PM	Rajeev Agrawal	Thakur Das Goswami	Xinfeng Zou
		High Tea (3.30 – 4.00 PM)	
	Session A Session Chair: Dr. Surya Prakash	Session B	Session C (ONLINE Mode)
	(Associate Professor, Great Lakes Institute of Management Gurgaon)	Session Chair: Prof. Pawan Kankar	Session Chair: Dr. Neeraj Goyal
	Track Owner: Dr. Naresh Raghuvanshi	(Professor)	(Assistant Professor, MNIT Jaipur)
Time	(Assistant Professor, MNIT Jaipur)	Track owner: Dr. Gulab Pamnani (Assistant Professor, MNIT Jaipur)	Track owner: Dr. Nikhil Sharma (Assistant Professor, MNIT Jaipur)
	UNIFIED Rep: Siddharth		
	Singh(6263744910) Pardhuman chahar(8963859013)	UNIFIED Rep: Puspendra Upadhyay(9929334868) Rahul Sharma(9358104640)	UNIFIED Rep: Vishnu(9251762768) Suyesh Wankhede(9082810006)
	Parunuman chanar(8903839013)	Kanui Sharma(9358104040)	Venue: NKN 1
	Venue: Neeti Sabhagaar	Venue: NKN2	
	UNIFIED_2024_50		UNIFIED_2024_13
4:00	Machine Learning Based Anomaly	UNIFIED_2024_59 Multi-Fault Classification of Rotor Systems Based on Torsional	Integrating poly-Coherent Composite Spectrum of Measured Vibration Responses and Machine
PM to	Detection for Pneumatic Actuators	Energy Trajectory Characteristic Pattern	Learning for Fault Detection in Rotating Machinery
4:15 PM	driven Flexible Manufacturing System	Chunrang Hua	
1 1/1	Hansika Gupta	Chumong nua	Khalid M Almutairi
PM		Chunrong Hua	Khalid M Almutairi

4:15 PM to 4:30 PM	UNIFIED_2024_55 Bearing Defects Classification using Wavelet Time Scattering Features and ensemble techniques Nitin Upadhyay	UNIFIED_2024_61 LM-BP Neural Network Model of Hydraulic Shock Absorbers in Varying Temperature Environment Chunrong Hua	UNIFIED_2024_18 The Importance of the Correct Use and Managemen of Aerial Means of Rotary Wing in Forest Fires Jorge Rafael Raposo
4:30 PM to 4:45 PM	UNIFIED_2024_64 Detecting Additive Manufacturing Anomalies with a Shallow Residual Convolution Network Suveg V Iyer	UNIFIED_2024_67 Fatigue Damage Assessment of FOWT Mooring Lines Using Sequence-to-Sequence Based Indirect Sensing Rohit Kumar	UNIFIED_2024_37 Enhancing Marine Maintenance Operations: The Impact of Human Factors and Customized Training Needs Nilesh Soni
4:45 PM to 5:00 PM	UNIFIED_2024_88 Enhanced Gear Fault Diagnosis Using Optimized Spectrogram-Based CNNs for Multiple and Compound Fault Detection Priyom Goswami	UNIFIED 2024_68 Temporal Feature Extraction Based Real Time Damage Detection of Floating Offshore Wind Turbine Mooring Lines Ananay Thakur	UNIFIED 2024_38 Enhancing Safety and Risk Management in the Oil and Gas Industry: Lessons from Major Catastrophic Incidents Nilesh Soni
5:00 PM to 5:15 PM	UNIFIED_2024_83 Probabilistic assessment on natural frequencies of functionally graded plates using artificial neural network approach	UNIFIED_2024_106 Integrating 4D Security Framework in Cyber-Physical Systems for Smart Enterprise Data Management Vijay Prakash Sharma	UNIFIED 2024_40 Evolution of Safety Systems and the Increased Potential for Hidden Failures: Case Studies from Automotive and Aviation Industries
	Dr. Ravi Ranjan Kumar	vijay fiakash Sharma	LAR ENGLISH

27th NOVEMBER 2024 (Wednesday)

10.00AM – 11 AM (Key note: Mr. Venkataramana Runkana (Tata Consultancy Services) and Prof. Rakesh Mishra(University of Huddersfield, U.K.)

High tea(11.00AM – 11:30AM)

Time	Session A2 Session Chair: Dr. Sameer Mittal Track Owner: Dr. Naresh Raghuvanshi (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Siddharth Singh(6263744910) Pardhuman chahar(8963859013) Venue: NKN-1	Session B2 Session Chair: Dr. Deepak Verma (Associate Professor MNIT Jaipur) Track owner: Dr. Gulab Pamnani (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Puspendra Upadhyay(9929334868) Rahul Sharma(9358104640) Venue: Neeti Sabhagaar	Session C2 Session Chair: Prof. Harlal Singh Mali (Professor, MNIT Jaipur) Track owner: Dr. Nikhil Sharma (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Vishnu(9251762768) Suyesh Wankhede(9082810006) Venue: NKN-2
11:30 AM to 11:45 AM	UNIFIED_2024_42 Industry 4.0 and Supply Chain Resilience: A Comprehensive Analysis of Technological Impacts Devesh Kumar	UNIFIED_2024_81 Understanding the Role of Cyber Physical Technology in Supporting Supply Chain Flexibility: A Systematic Literature Review Angel Singh	UNIFIED_2024_65 Vehicle Wheel Monitoring and Diagnosis Based on the Vibration Signals of an On-Rotor Sensor Kunzuo Zhong
11:45 AM to 12:00 PM	UNIFIED_2024_47 A Framework Proposal for the Assets Ranking Based on their Criticality in Industry Mohamad Afiq Amiruddin Bin Parnon	UNIFIED_2024_96 Digital Governance RFP Analysis: BERT Model adoption for Document Classification Manisha Tiwari	UNIFIED_2024_52 Condition Monitoring- An Emerging Predictive Maintenance Technique in Continuous Process Plants Parag K. Muley
12:00 PM to 12:15 PM	UNIFIED_2024_57 Financial Barriers to Electronic Commerce Adoption in SMEs Kartik Pareek	UNIFIED_2024_82 A Conceptual Framework to Evaluate Customers' Response to Use Product Recommendation Systems Aman Mathan	UNIFIED_2024_19 The Role of Lifestyle in Enhancing Employee Health and Productivity G Balakrishna Reddy
12:15 PM to 12:30 PM	UNIFIED_2024_73 Applications of learning curves in maintenance industry 4.0: A comprehensive review Prakash Naraian Sharma	UNIFIED 2024_111 The integration of Artificial Intelligence in the context of Industry 4.0. Aleksey Tashkinov	UNIFIED_2024_23 Identifying key methodologies for modelling Interdependencies in Dependent Networks Paras Grag

UNIFIED_2024_75 Potential of Artificial intelligence in Millets supply chain risk management Hemant Kumar			UNIFIED 2024_21 A Novel Approach for Assessment of Risk Matrix of Offset Printing Machine ARUN KIRAN PAL
		Lunch	
OFFLIN	E SESSION	S	Session C3 (Online)
MNIT Jaipur)		Session B3 Session Chair: Prof. Ramin Karim, (Lulea university of Technology, Sweden) Track owner: Dr. Gulab Pamnani (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Puspendra Upadhyay(9929334868) Rahul Sharma(9358104640)	Session Chair: Dr. Kuldeep Singh (Associate Professor,MNIT Jaipur) Track owner: Dr. Nikhil Sharma (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Vishnu(9251762768) Suyesh Wankhede(9082810006)
		Venue: Neeti Sabhagaar	Venue: NKN-1
	essurized	UNIFIED_2024_6 Enhancing Network Security: An Ensemble of Machine Learning Model for Detection of Distributed Denial of Service Attack Deepak Singh Rajput	UNIFIED_2024_48 Optimisation of Distance between Sensor Locations in a Long Pipe Network for Condition Monitoring using Acoustic Wave Reflection Technique Buloere F Ekeu-wei
		UNIFIED_2024_34 Internet of Things (IOT) Security: Threats, Vulnerabilities, and Risk Mitigation Strategies Monika Rani	UNIFIED_2024_56 A Comparative Study between Bayesian Filters and Autoencoder Networks for Bearing RUL Prediction
	Potential of Artificial intelligence in Millets supply chain risk management Hemant Kumar Session A3 Session Chair: Dr. Satish Sharma Track Owner: Dr. Naresh Raghuvanshi (Assistant MNIT Jaipur) UNIFIED Rep: Siddharth Singh(62637449 Pardhuman chahar(8963859013) Venue: NKN-2 UNIFIED_2024_28 Analysis of Reactor Pressure Vessel during Presented Shock Dinesh Loyal UNIFIED_2024_36 Electric Radiators and Heat Decarbonisation Experimental Study on Energy Efficience	Potential of Artificial intelligence in Millets supply chain risk management Hemant Kumar OFFLINE SESSION Session A3 Session Chair: Dr. Satish Sharma Track Owner: Dr. Naresh Raghuvanshi (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Siddharth Singh(6263744910) Pardhuman chahar(8963859013) Venue: NKN-2 UNIFIED_2024_28 Analysis of Reactor Pressure Vessel during Pressurized Thermal Shock Dinesh Loyal UNIFIED_2024_36 Electric Radiators and Heat Decarbonisation: An Experimental Study on Energy Efficiency	Pathway to Net-Zero Emissions in Supply Chain: A comprehensive analysis of Industry 4.0 Technologies and Emission Reduction Practices Shobha Rathore Lunch OFFLINE SESSIONS Session A3 Session Chair: Dr. Satish Sharma Track Owner: Dr. Naresh Raghuyanshi (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Siddharth Singh(6263744910) Pardhuman chahar(8963859013) Venue: NKN-2 UNIFIED_2024_28 Analysis of Reactor Pressure Vessel during Pressurized Thermal Shock Dinesh Loyal Pathway to Net-Zero Emissions in Supply Chain: A comprehensive analysis of Industry 4.0 Technologies and Emission Reduction Practices Shobha Rathore Session B3 Session Chair: Prof. Ramin Karim, (Lulea university of Technology, Sweden) Track Owner: Dr. Naresh Raghuyanshi (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Puspendra Upadhyay(9929334868) Rahul Sharma(9358104640) Venue: Neti Sabhagaar UNIFIED_2024_6 Enhancing Network Security: An Ensemble of Machine Learning Model for Detection of Distributed Denial of Service Attack Deepak Singh Rajput UNIFIED_2024_34 Electric Radiators and Heat Decarbonisation: An Experimental Study on Energy Efficiency

	UNIFIED_2024_49	UNIFIED_2024_N_101	UNIFIED_2024_63
3:00 PM to 3:15 PM	Research on dynamic characteristics of direct-drive wind turbine main bearing based on digital twin Wentao Zhao	Gearbox Prognostics and Health Assessment Using ProgPy: An Open-Source Condition Monitoring and Diagnostics Tool Magnus Santos Nordeide	Inverter Based Resource Complemented Control using Immune Response Analogy Isaac K Aidoo
	UNIFIED_2024_66	UNIFIED_2024_95	UNIFIED 2024_69
3:15 PM to 3:30	Speed Tracking and Dynamic Analysis of Condition Monitoring of Industrial Collaborative Robot Based on Vibration Signal	Use of GPU and Parallel Processing for Insurance Pricing Models	An Energy management strategy for Piezoelectric Energy Harvester for low-power applications
PM	Huanqing Han	Vikas Garg	Anshu Gaur
3:30 PM to 3:45	UNIFIED_2024_94 Oil Consumption Analysis and Predictive Modeling for Vehicle Longevity	UNIFIED_2024_N_102 Proposed Framework for Nonintrusive Monitoring Solution for Independent Elderly	UNIFIED_2024_86 Damage identification of steel box girder based on impact load and Wavelet Packet Permutation Entropy
PM	Vikas Garg	Halldor Broddi Thorsteinsson	Yutao Zhou
	High 7	Γea(4.00 PM – 4:30 PM)	
Time	Session A4 Session Chair: Dr. Satyander Singh Chauhan (Assistant Professor, MNIT jaipur) Track Owner: Dr. Naresh Raghuvanshi (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Siddharth Singh(6263744910) Pardhuman chahar(8963859013) Venue: NKN-1	Session B4 Session Chair: Dr. Divesh Kumar (Associate Professor, MNIT Jaipur) Track owner: Dr. Gulab Pamnani (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Puspendra Upadhyay(9929334868) Rahul Sharma(9358104640) Venue: NKN-2	Session C4 Session Chair: Dr. Ashish Tripathy (Assistant Professor, MNIT Jaipur) Track owner: Dr. Nikhil Sharma (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Vishnu(9251762768) Suyesh Wankhede(9082810006) Venue: Neeti Sabhaagar
	UNIFIED_2024_87	UNIFIED_2024_N_103	UNIFIED_2024_124
4:30 PM to 4:45 PM	Gearbox Anomaly Detection In Wind Turbines Using Classical Machine Learning	Prediction of Power Produced in a Wind Turbine Using SCADA Data with Deep LSTMs	Mars Rover: Autonomous Exploration and Terrain Analysis
	Arvind Keprate	Even Torbjørnsen	Soma Sekhar Bhimanapalli

4:45 PM to 5:00 PM	UNIFIED_2024_90 ORS-based Bearing Fault Diagnosis for Marine Electric Propulsion Systems Chun Li	UNIFIED_2024_N_104 Development of Human Cognition Inspired Digital Twins for Optimized Performance of Process Equipment Maneesh Singh	UNIFIED_2024_125 Enhancing Phishing Detection Sandeep Malipeddi
5:00 PM to 5:15 PM	UNIFIED_2024_112 Combined Effect of Charge Rate and Temperature on Battery Health of Electric Vehicles Namrata Mohanty	UNIFIED_2024_115 Integrating Blockchain Technology with AI to Enhance Security Measures Tirthesh Kamlesh Gajjar	UNIFIED_2024_97 A Parametric Approach Towards Vibration Level Prediction for a Fighter Aircraft Line Replaceable Units Santha J Panigrahi
5:15 PM to 5:30 PM	UNIFIED_2024_113 Bi-LSTM-Based Model for Software Reliability Prediction in Multi-Sprint Agile based Software Shikha Dwivedi	UNIFIED_2024_N_105 Application of a Large Language Model for Failure Mode and Effect Analysis (FMEA) Kamal V. Charan	UNIFIED_2024_62 Multi-Model Based Condition Monitoring Framework for the Health Assessment of the Tool Center Point and Joints of Industrial Collaborative Robots Samuel Ayankoso
5:30 PM to 5:45 PM	UNIFIED_2024_114 A temporal decomposition-based LSTM model for forecasting reservoir inflow using real-time data Kshitij Tandon	UNIFIED_2024_119 Gamified learning platform Development Rutuja Niminath Rite	UNIFIED_2024_35 Emergency vehicles (ambulances) The importance of Condition maintenance in the Service Quality Hugo DN Raposo
6:00 PM to 6:30 PM	UNIFIED_2024_136 Trust in Social Media through Deepfake Detection: A Literature Review Debasmita Guha	The Role of Artificial Intelligence in Sustainable Food Retailing: A Pathway to Reducing Waste and Enhancing Efficiency Şirin Gizem Köse High Tea(6:00 PM to 6:30 PM)	

7.30 PM- 10.00 PM	Dinner (In Prabha bhawan quadrangle)			
	10- 11 AM Keynote (Prof.	Alok Verma, Texas A&M University and Prof. Faisal	Khan, Texas A&M University)	
11- 11.15 AM		High tea		
Time	Session A2 Session Chair: Dr. Sumit Sonkar (Associate Professor, MNIT Jaipur) Track Owner: Dr. Naresh Raghuvanshi (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Siddharth Singh(6263744910) Pardhuman chahar(8963859013)	Session B2 Session Chair: Dr. Priyanka Harjule (Assistant Professor, MNIT Jaipur) Track owner: Dr. Gulab Pamnani (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Puspendra Upadhyay(9929334868) Rahul Sharma(9358104640)	Session C2 (Online) Session Chair: Prof. Arvind Keprate (Professor , Oslo Metropolitan University) Track owner: Dr. Nikhil Sharma (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Vishnu(9251762768) Suyesh Wankhede(9082810006) Venue: NKN 1	
	Venue: NKN-2	Venue: Neeti Sabhagaar		
11:15 AM to 11:30	UNIFIED_2024_100 Condition Monitoring of Hydraulic Systems Using Multi-Output Classification Convolutional Neural Networks	UNIFIED_2024_26 Life Cycle Investment and Sustainable Asset Management: Exploring the Potential of ISO 55001 in the Circular Economy	UNIFIED_2024_7 Short-term Photovoltaic Power Prediction Based on Simi-lar Day Clustering and Combined SBOA-CNN-BiLSTM-Attention Model	
AM	Pavan Kumar Kankar	Jose Edmundo de-Almeida-e-Pais	Li Youwei	
11:30 AM to 11:45 AM	UNIFIED_2024_70 A Framework for Development of Industrial Metaverse in Maintenance RAVDEEP KOUR	UNIFIED_2024_32 Statistical Modelling and Analytics of Shutdown in Waterflood System on a Deep-water Production Platform Offshore Nigeria Akorede O. Joledo	UNIFIED_2024_17 Research on Wind Turbine Pitch Control Based on Whale Optimization Algorithm Jun Xia	
11:45 AM to	UNIFIED_2024_72 An Improved Framework to Transition from TBM to CBM in the Maintenance of Freight Locomotives	UNIFIED 2024_71 Inter-organizational and multi-objective operational risk management: a case study of	UNIFIED 2024_20 Research on permanent magnet synchronous motor	

12:00 PM	Mohamed MAA Ali Alaswed	well control management for land drilling operation in Iraq Tore Markeset	control based on improved active disturbance rejection control Chuang Zhou
12:12.1 5 AM to 12:30 PM	UNIFIED_2024_84 Wind Farm Optimization Along the Norwegian Coast: Comparing Multi-Rotor and Single-Rotor Turbines Johannes Aarstein	UNIFIED_2024_80 Sequential hybrid solution to alleviate congestion utilizing distributed generations and FACTs devices in the power network Pawan Sharma	UNIFIED 2024_22 A Whale Optimization Algorithm Based Strategy to Govern DC Bias Lulu Liu
12:00 PM to 12:15 PM	UNIFIED_2024_85 Design and Analysis of Upper Limb Exoskeleton for Adults with Muscular Dystrophy Sooraj Sukumar K	UNIFIED 2024_98 Application of Condition-Based Monitoring for Improvement of Diagnostic Coverage of Safety Mechanisms Pramit Nag	UNIFIED_2024_24 Optimal location selection based on Grey Wolf coupled Cuckoo algorithm Yuan Miao
12:15 PM to 12:30 PM	UNIFIED_2024_92 Vibration Trend Monitoring of Indigenous Wankel Rotary Engine Brijesh kumar, J Shah	UNIFIED 2024_99 Predictive Maintenance of Hydraulic systems using multi-task Transfer learning with multi-layer perceptron Pavan Kumar Kankar	UNIFIED_2024_29 A rolling bearing fault diagnosis based on IBKA optimized VMD-SVM Zhenna Ma
12:30 AM to 12:45 PM	UNIFIED_2024_39 Modern Approaches to tackle Intelligent Urban Transportation challenges Hitesh Chandiramani	UNIFIED_2024_76 Improvement of FMECA Framework: A Case Study Anindya Bhattacharya	UNIFIED_2024_31 Optimization design of active suspension system control of rover based on Gray Wolf algorithm Kai Wang
12:45 AM to	UNIFIED_2024_74	UNIFIED_2024_134	

1:00 PM	A Review on Cable-Driven Soft Robotic Systems used for Surgical Applications	A Review on Cable-Driven Soft Robotic Systems used for Surgical Applications	UNIFIED_2024_41 Research on adding fuzzy stage to permanent magnet motor based on synovial control
	Chetan Jalendra	Sameer Shekh	Yuanzhen Wei
1:00 PM to 2:00 PM		Valedictory Session	
02:00 PM to 03:00 PM		Lunch	