Tentative Technical Schedule of UNIFIED 2024 Conference at MNIT Jaipur

26th NOVEMBER 2024 (Tuesday)
10:30 AM to 11:30 AM   Inaugural Function, Venue: Neeti Sabhagaar, Prabha Bhanwan 2nd floor
High tea (11.00AM – 11:30AM)
12 PM- 1 PM   Key note session Prof. Uday Kumar (Lulia University, Sweden), Prof. Andrew Ball (University of Huddersfield, U.K.)
Lunch (1:00 PM to 2:00 PM)

Time (2:00 PM to 3:30 PM)	Session A Session Chair: Dr. Om Ji Shukla (Assistant Professor,NIT Patna) Track Owner: Dr. Naresh Raghuvanshi (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Siddharth Singh(6263744910) Pardhuman chahar(8963859013) Venue: NKN-1	Session B Session Chair: Dr. Mangey Ram (Professor, Graphic Era, Dehradun) Track owner: Dr. Gulab Pamnani (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Puspendra Upadhyay(9929334868) Rahul Sharma(9358104640) Venue: Neeti Sabhagaar	Session C Session Chair: Prof. Pawan Kumar Kankar (Professor, IIT Indore) Track owner: Dr. Nikhil Sharma (Assistant Professor , MNIT Jaipur) UNIFIED Rep: Vishnu(9251762768) Suyesh Wankhede(9082810006) Venue: NKN-2
2:00 PM to 2:15 PM	**UNIFIED_2024_05** Biometric based Secured Voting System for Election **Ravindra Pratap Narwaria**	**UNIFIED_2024_04** Predictive Modeling of Surface Roughness in Abrasive Machining Operation Using Machine Learning **Gajesh l S. Usgaonkar**	**UNIFIED_2024_132** Pathway to Net-Zero Emissions in Supply Chain: A comprehensive analysis of Industry 4.0 Technologies and Emission Reduction Practices **Shobha Rathore**
2:15 PM to 2:30 PM	**UNIFIED_2024_33** Denial-of-Service (DOS): Adaptive Approach and Strategies **Monika Rani**	**UNIFIED_2024_51** Electric Mobility in Urban India: Tackling Technological and Infrastructure Hurdles **Abhishek Das**	**UNIFIED_2024_73** Applications of learning curves in maintenance industry 4.0: A comprehensive review **Prakash Naraian Sharma**

Time			
2:30 PM to 2:45 PM	**UNIFIED_2024_44** A Blockchain architecture for healthcare waste management practices-An Indian Case **Rajeev Agrawal**	**UNIFIED_2024_114** A temporal decomposition-based LSTM model for forecasting reservoir inflow using real-time data **Kshitij Tandon**	**UNIFIED_2024_144** Optimization of the Blade pitch angle of wind turbine using physics informed Machine learning for maximum power output. **Gitesh Karan**
2:45 PM to 3:00 PM	**UNIFIED_2024_50** Machine Learning Based Anomaly Detection for Pneumatic Actuators driven Flexible Manufacturing System **Hansika Gupta**	**UNIFIED 2024_27** Brittle Fracture Analysis using Phase Field **Pushpendra Upadhyay**	**UNIFIED_2024_82** A Conceptual Framework to Evaluate Customers' Response to Use Product Recommendation Systems **Aman Mathan**
3:00 PM to 3:15 PM	**UNIFIED_2024_55** Bearing Defects Classification using Wavelet Time Scattering Features and ensemble techniques **Nitin Upadhyay**	**UNIFIED 2024_30** A Novel Method for Damage Identification of Frame Structures using Extended Improved Particle Swarm Optimization Technique **Thakur Das Goswami**	**UNIFIED_2024_N_105** Application of a Large Language Model for Failure Mode and Effect Analysis (FMEA) **Kamal V. Charan**
	High Tea (3.30 – 4.00 PM)		
Time (4:00 PM to 5:30 PM)	**Session A** **Session Chair: Dr. Surya Prakash** (Associate Professor, Great Lakes Institute of Management Gurgaon) **Track Owner: Dr. Naresh Raghuvanshi** (Assistant Professor, MNIT Jaipur) **UNIFIED Rep: Siddharth Singh(6263744910)** **Pardhuman chahar(8963859013)** **Venue: Neeti Sabhagaar**	**Session B** **Session Chair: Dr. Anup Malik** (Assistant Professor, MNIT Jaipur) **Track owner: Dr. Gulab Pamnani** (Assistant Professor, MNIT Jaipur) **UNIFIED Rep: Puspendra Upadhyay(9929334868)** **Rahul Sharma(9358104640)** **Venue: NKN2**	**Session C (ONLINE Mode)** **Session Chair: Dr. Neeraj Goyal** (Associate Professor, IIT Kgp) **Track owner: Dr. Nikhil Sharma** (Assistant Professor, MNIT Jaipur) **UNIFIED Rep: Vishnu (9251762768)** **Suyesh Wankhede (9082810006)** **Venue: NKN 1**
4:00 PM to 4:15 PM	**UNIFIED_2024_19** The Role of Lifestyle in Enhancing Employee Health and Productivity **G Balakrishna Reddy**	**UNIFIED_2024_N_102** Proposed Framework for Nonintrusive Monitoring Solution for Independent Elderly **Halldor Broddi Thorsteinsson**	**UNIFIED_2024_13** Integrating poly-Coherent Composite Spectrum of Measured Vibration Responses and Machine Learning for Fault Detection in Rotating Machinery **Khalid M Almutairi**

Time			
4:15 PM to 4:30 PM	**UNIFIED_2024_64** Detecting Additive Manufacturing Anomalies with a Shallow Residual Convolution Network **Suveg V Iyer**	**UNIFIED_2024_N_103** Prediction of Power Produced in a Wind Turbine Using SCADA Data with Deep LSTMs **Even Torbjørnsen**	**UNIFIED_2024_18** The Importance of the Correct Use and Management of Aerial Means of Rotary Wing in Forest Fires **Jorge Rafael Raposo**
4:30 PM to 4:45 PM	**UNIFIED_2024_88** Enhanced Gear Fault Diagnosis Using Optimized Spectrogram-Based CNNs for Multiple and Compound Fault Detection **Priyom Goswami**	**UNIFIED 2024_21** A Novel Approach for Assessment of Risk Matrix of Offset Printing Machine **ARUN KIRAN PAL**	**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_83** Probabilistic assessment on natural frequencies of functionally graded plates using artificial neural network approach **Dr. Ravi Ranjan Kumar**	**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 (Mr.Ashutosh Dubey)**
5:00 PM to 5:15 PM	**UNIFIED_2024_14** Maximizing Reliability of Hybrid Energy System: A Comparison between Mayfly and Driving Training-Based Optimization Algorithm **Jaya choudhary**	**UNIFIED_2024_11** Performance Evaluation of an Electric Vehicle System under Multistate Modelling **Labhanshi Vashishtha**	**UNIFIED 2024_40** Evolution of Safety Systems and the Increased Potential for Hidden Failures: Case Studies from Automotive and Aviation Industries **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 (11:30 AM to 1:00 PM)	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-2	Session B2 (ONLINE) 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 (ONLINE) Session Chair: Dr. Satyasai J. Nanda (Associate Professor, MNIT Jaipur) Track owner: Dr. Nikhil Sharma (Assistant Professor, MNIT Jaipur) UNIFIED Rep: Vishnu(9251762768) Suyesh Wankhede(9082810006) Venue: NKN-1
11:30 AM to 11:45 AM	UNIFIED_2024_47 A Framework Proposal for the Assets Ranking Based on their Criticality in Industry Mohamad Afiq Amiruddin Bin Parnon	UNIFIED_2024_59 Multi-Fault Classification of Rotor Systems Based on Torsional Energy Trajectory Characteristic Pattern Chunrong Hua	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_75 Potential of Artificial intelligence in Millets supply chain risk management Hemant Kumar	UNIFIED_2024_61 LM-BP Neural Network Model of Hydraulic Shock Absorbers in Varying Temperature Environment Chunrong Hua	UNIFIED_2024_25 An ultrasonic-based novel method for condition monitoring of lithium-ion batteries Lei Fu
12:00 PM to 12:15 PM	UNIFIED_2024_52 Condition Monitoring- An Emerging Predictive Maintenance Technique in Continuous Process Plants Parag K. Muley	UNIFIED_2024_49 Research on dynamic characteristics of direct-drive wind turbine main bearing based on digital twin Wentao Zhao	UNIFIED_2024_41 Research on adding fuzzy stage to permanent magnet motor based on synovial control Yuanzhen Wei
12:15 PM to 12:30 PM	UNIFIED_2024_53	UNIFIED_2024_66	UNIFIED_2024_54 Characterizing of the Electromechanical Transmissions in the FDM 3D Printing Process

	Design, analysis and development of an efficient thermal management system for electric vehicles **Parag K. Muley**	Speed Tracking and Dynamic Analysis of Condition Monitoring of Industrial Collaborative Robot Based on Vibration Signal **Huanqing Han**	Enables Condition Monitoring via Multi-information Fusion **Xinfeng Zou**
12:30 PM to 12:45 PM	**UNIFIED_2024_28** Analysis of Reactor Pressure Vessel during Pressurized Thermal Shock **Dinesh Loyal**	**UNIFIED_2024_90** ORS-based Bearing Fault Diagnosis for Marine Electric Propulsion Systems **Chun Li**	**UNIFIED_2024_08** Bearing Fault Diagnosis and Generalization Error Analysis Based on Transfer Learning **Tingting Deng**
	Lunch (1:00 PM to 2:00 PM)		
	OFFLINE SESSIONS		Session C3 (Online) 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: NKN-1**
Time (2:00 PM to 3:30 PM)	**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**	**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) Venue: Neeti Sabhagaar**	
2:00 PM to 2:15 PM	**UNIFIED_2024_112** Combined Effect of Charge Rate and Temperature on Battery Health of Electric Vehicles **Namrata Mohanty**	**UNIFIED_2024_57** Financial Barriers to Electronic Commerce Adoption in SMEs **Kartik Pareek**	**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**
2:15 PM to 2:30 PM	**UNIFIED_2024_36** Electric Radiators and Heat Decarbonisation: An Experimental Study on Energy Efficiency **Ruhail Gulzar**	**UNIFIED_2024_97** A Parametric Approach Towards Vibration Level Prediction for a Fighter Aircraft Line Replaceable Units **Santha J Panigrahi**	**UNIFIED_2024_56** A Comparative Study between Bayesian Filters and Autoencoder Networks for Bearing RUL Prediction **Haobin Wen**

Time			
2:30 PM to 2:45 PM	**UNIFIED_2024_100** Condition Monitoring of Hydraulic Systems Using Multi-Output Classification Convolutional Neural Networks **Pawan Kumar Kankar**	**UNIFIED_2024_124** Mars Rover: Autonomous Exploration and Terrain Analysis **Soma Sekhar Bhimanapalli**	**UNIFIED_2024_63** Inverter Based Resource Complemented Control using Immune Response Analogy **Isaac K Aidoo**
2:45 PM to 3:00 PM	**UNIFIED_2024_67** Fatigue Damage Assessment of FOWT Mooring Lines Using Sequence-to-Sequence Based Indirect Sensing **Rohit Kumar**	**UNIFIED_2024_N_101** Gearbox Prognostics and Health Assessment Using ProgPy: An Open-Source Condition Monitoring and Diagnostics Tool **Magnus Santos Nordeide**	**UNIFIED 2024_69** An Energy management strategy for Piezoelectric Energy Harvester for low-power applications **Anshu Gaur**
3:00 PM to 3:15 PM	**UNIFIED_2024_81** Understanding the Role of Cyber Physical Technology in Supporting Supply Chain Flexibility: A Systematic Literature Review **Angel Singh**	**UNIFIED_2024_79 (121)** Weak analysis of HQC a quantum proof scheme **Ajay Shivaji Rodge**	**UNIFIED_2024_86** Damage identification of steel box girder based on impact load and Wavelet Packet Permutation Entropy **Yutao Zhou**
High Tea (3.30 PM – 4:00 PM)			
Time (4:00 PM to 5:30 PM)	**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 (ONLINE)** **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 (ONLINE)** **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**
4:00 PM to 4:15 PM	**UNIFIED_2024_92** Vibration Trend Monitoring of Indigenous Wankel Rotary Engine **Brijesh kumar, J Shah**	**UNIFIED_2024_72** An Improved Framework to Transition from TBM to CBM in the Maintenance of Freight Locomotives **Mohamed MAA Ali Alaswed**	**UNIFIED 2024_71** Inter-organizational and multi-objective operational risk management: a case study of well control management for land drilling operation in Iraq **Tore Markeset (Dr.Guicang Peng)**

4:15 PM to 4:30 PM	**UNIFIED_2024_74** A Review on Cable-Driven Soft Robotic Systems used for Surgical Applications **Chetan Jalendra**	**UNIFIED_2024_87** Gearbox Anomaly Detection In Wind Turbines Using Classical Machine Learning **Arvind Keprate**	**UNIFIED_2024_32** Statistical Modelling and Analytics of Shutdown in Waterflood System on a Deep-water Production Platform Offshore Nigeria **Akorede O. Joledo**
4:30 PM to 4:45 PM	**UNIFIED_2024_113** Bi-LSTM-Based Model for Software Reliability Prediction in Multi-Sprint Agile based Software **Shikha Dwivedi**	**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**	**UNIFIED_2024_80** Sequential hybrid solution to alleviate congestion utilizing distributed generations and FACTs devices in the power network **Pawan Sharma**
4:45 PM to 5:00 PM	**UNIFIED_2024_N_104** Development of Human Cognition Inspired Digital Twins for Optimized Performance of Process Equipment **Maneesh Singh**	**UNIFIED_2024_35** Emergency vehicles (ambulances) The importance of Condition maintenance in the Service Quality **Hugo DN Raposo**	**UNIFIED 2024_126** The integration of Artificial Intelligence in the context of Industry 4.0. **Aleksey Tashkinov**
5:00 PM to 5:15 PM	**UNIFIED_2024_93** Investigating the Influencing Factors for the Acceptance of Artificial Intelligence in the Manufacturing Industry using DEMATEL Technique **Man Mohan Siddh**	**UNIFIED_2024_84** Wind Farm Optimization Along the Norwegian Coast: Comparing Multi-Rotor and Single-Rotor Turbines **Johannes Aarstein**	**UNIFIED_2024_26** Life Cycle Investment and Sustainable Asset Management: Exploring the Potential of ISO 55001 in the Circular Economy **Jose Edmundo de-Almeida-e-Pais**
5:15 PM to 5:30 PM	**UNIFIED_2024_77 (120)** A survey on Hamming Quasi Cyclic (HQC) **Ajay Shivaji Rodge**	**UNIFIED_2024_70** A Framework for Development of Industrial Metaverse in Maintenance **RAVDEEP KOUR**	**UNIFIED_2024_91** Experimental investigation of vibrational characteristics of prosthetic feet **Preeti Chauhan**
7.30 PM-10.00 PM	**Dinner (Open in quadrangle)**		

28th NOVEMBER 2024 (Thursday)		
10.00- 11.00 AM : Keynote (Prof. Alok Verma and Prof. Faizal Khan/Prof. Carol)		
High tea (11.00AM – 11:30AM)		
Time (11:30 AM to 1:00 PM)	**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)** **Venue: NKN-2**	**Session B2(Online)** **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)** **Venue: Neeti Sabhagaar**	**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**
11:15 AM to 11:30 AM	**UNIFIED_2024_76** Improvement of FMECA Framework: A Case Study **Anindya Bhattacharya**	**UNIFIED_2024_24** Optimal location selection based on Grey Wolf coupled Cuckoo algorithm **Yuan Miao**	**UNIFIED_2024_7** Short-term Photovoltaic Power Prediction Based on Simi-lar Day Clustering and Combined SBOA-CNN-BiLSTM-Attention Model **Li Youwei**
11:30 AM to 11:45 AM	**UNIFIED_2024_133** Integrating Automation and Orchestration in Security Incident Handling: A Review of SOAR Frameworks and Platforms **Pragya Rathore**	**UNIFIED_2024_29** A rolling bearing fault diagnosis based on IBKA optimized VMD-SVM **Zhenna Ma**	**UNIFIED_2024_17** Research on Wind Turbine Pitch Control Based on Whale Optimization Algorithm **Jun Xia**
11:45 AM to 12:00 PM	**UNIFIED 2024_98** Application of Condition-Based Monitoring for Improvement of Diagnostic Coverage of Safety Mechanisms **Pramit Nag**	**UNIFIED_2024_125** Enhancing Phishing Detection **Sandeep Malipeddi**	**UNIFIED 2024_20** Research on permanent magnet synchronous motor control based on improved active disturbance rejection control **Chuang Zhou**

12:12.15 AM to 12:30 PM	**UNIFIED 2024_99** Predictive Maintenance of Hydraulic systems using multi-task Transfer learning with multi-layer perceptron **Pawan Kumar Kankar**	**UNIFIED_2024_31** Optimization design of active suspension system control of rover based on Gray Wolf algorithm **Kai Wang**	**UNIFIED 2024_22** A Whale Optimization Algorithm Based Strategy to Govern DC Bias **Lulu Liu**
12:00 PM to 12:15 PM	**UNIFIED_2024_12** Reliability Analysis of Complex System using Markov Process and Neural Network Algorithm **Deepanshi Chauhan**	**UNIFIED_2024_23** Identifying key methodologies for modelling Interdependencies in Dependent Networks **Paras Grag**	**UNIFIED_2024_96** Digital Governance RFP Analysis: BERT Model adoption for Document Classification **Manisha Tiwari**
12:30 PM Onwards	**VALEDICTORY SESSION followed by LUNCH**		