

RDC Quarterly Report

(January-March, 2024)

1. Journals / Book Chapter/Conf. Proceedings Publications

Sr. No.	Faculty Name	School/Department	Name of Journal/Book/Conference	Title of the Paper/Book Chapter	Month of Publication
1	Prof. Aakash Pandey	Mechanical	International Journal of Coal Preparation and Utilization	Impact of anthracite blending and SDS addition on slurry ability and stability of Indian high ash coal water slurry	January
2	Dr. Mithilesh Sahu	Mechanical	Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy	A numerical study on effect of intra and inter spaced winding configuration on performance of oil forced transformer cooling system	January
3	Dr. Mithilesh Sahu	Mechanical	Indian Journal of Engineering and Materials Sciences (IJEMS)	Implementation of Total Productive Maintenance to Improve Productivity of Rolling Mill	February
4	Dr. Saroj Kumar	Mechanical	IEEE Xplore	Implementation of Trajectory Control Algorithm in a Dynamic Environment	February

5	Dr. Mithilesh Sahu	Mechanical	International Journal of Advanced Technology and Engineering Exploration (Published by Accent Social and Welfare Society, India)	Implementation of lean manufacturing methods to improve rolling mill productivity	March
6	Dr. Mukesh Shyamkant Desai	Mechanical	Industrial Engineering Journal	Application of Modified Single Minute Exchange of Die for the Reduction of Ambulance Response	March
7	Prof. Neeraj Kumar Verma	Metallurgy	Journal Of Materials Research and Technology	Taguchi optimized wear and self-lubricating properties of Al-alloy composite reinforced with hybrid B4C–MoS2 particulates.	January
8	Dr. M Kalyan Phani	Metallurgy	Int J Conf Proc.	Welding Processes in Advanced Manufacturing.	March
9	Dr. Sandeep Biswal	EE	INTERNATIONAL JOURNAL OF EMERGING ELECTRIC POWER SYSTEMS	A Differential Amplitude Variation Based Pilot Relaying Scheme for Microgrid Integrated Distribution System	March

10	Dr. Sandeep Biswal	EE	ECTI Transactions on Electrical Engineering, Electronics, and Communications	Technical Indices Evaluation of Radial Distribution Network with Optimally Allocated DGs and Capacitors	March
11	Dr. Sandeep Biswal	EE	“Energy and Environmental Aspects of Emerging Technologies for Smart Grid” Springer	Directional Relaying Issues in Power Transmission Networks	January
12	Dr. R D Patidar, Dr. S D Swain, and Dr. Sandeep Biswal	EE	“Energy and Environmental Aspects of Emerging Technologies for Smart Grid” Springer	Performance of Grid-Connected Shunt Active Filter Equipped PV System	January
13	Dr. Sandeep Biswal	EE	“Energy and Environmental Aspects of Emerging Technologies for Smart Grid” Springer	Optimal Location Selection of Electric Vehicle Charging of Electrical Engineering Stations and Capacitors in Radial Distribution Networks using GJO Algorithm	January
14	Dr. Anurag Sharma	Civil	2nd National Conference on Socio-economic Perspective	Expert-Based Techniques for Sustainable Solutions for Landslide Hazards: A Review	March

			on Sustainable Management of Water (SPSMW - 2024)		
15	Dr. Amit Jain	CSE	3rd IEEE International Conference on Smart Generation Computing, Communication and Networking held at Bangalore on 29-31 Dec. 2023.	DeepFake Videos Detection and Classification Using Resnext and LSTM Neural Network,	January
16	Dr. Amit Jain	CSE	3rd IEEE International Conference on Smart Generation Computing, Communication and Networking held at Bangalore on 29-31 Dec. 2023.	Analysis and Mitigation of DDOS Vulnerabilities in Cloud Computing	January
17	Dr. Arti Vaish	CSE	3rd International Conference on Computatio	Quantum field current modelling in a semiconductor, 3rd International Conference on Computational Electronics for Wireless Communications, 22-23	January

			nal Electronics for Wireless Communica tions, 22-23 December 2023, NIT Jalandhar.	December 2023, NIT Jalandhar, LNNS springer.	
18	Dr. Arti Vaish	CSE	3rd Internationa l Conference on Computatio nal Electronics for Wireless Communica tions, 22-23 December 2023, NIT Jalandhar.	A finite element technique for approximately solving for the electromagnetic field within a cavity resonator, 3rd International Conference on Computational Electronics for Wireless Communications, 22-23 December 2023, NIT Jalandhar, LNNS springer	January
19	Dr. Arti Vaish	CSE	3rd Internationa l Conference on Computatio nal Electronics for Wireless Communica tions, 22-23 December 2023, NIT Jalandhar.	A lightweight encryption method for preserving E- Health care data privacy using dual signature on twisted Edwards Curves, Springers 5th International Conference on Computer and Communication Technologies (IC3T-2023), KITS, Warangal.	January
20	Dr. Amit Jain	CSE	ABDC Indexed Journal, Journal of	Data Mining based Framework for Organizational Financial Management	January

			Informatics Education and Research		
21	Dr. Amit Jain	CSE	Intellectual Property India	Artificial Intelligence Based Apparatus for Home Automation Management	February
22	Dr. Umashankar Ghugar & Dr. Bhupesh Kumar Dewangan	CSE	IEEE Explore	A Compressive Study on Detection Accuracy Model for DoS Attack in SDN Using Ensemble Learning Techniques	February
23	Dr. Umashankar Ghugar	CSE	IEEE Explore	IoT-Based Smart Irrigation System for Optimal Water- Resource Utilization in Indian Agriculture	February
24	Dr. Rakesh Nayak & Dr. Umashankar Ghugar	CSE	SCOPUS	Exploring The Security Landscape: A Comprehensive Analysis Of Vulnerabilities, Challenges, And Findings In Internet Of Things (IoT) Application Layer Protocols	February
25	Dr. Narendra Kumar Dewangan	CSE	19th Chhattisgar h Young Scientists Congress (CYSC- 2024)	Prevention of De-Identification Attack on Blockchain-based E Voting using Homomorphic Encryption	February
26	Dr. Narendra Kumar Dewangan	CSE	Taylor and Francis	Geolocation- Based Smart Land Registry Process with Privacy Preservation Using Blockchain Technology and IPFS	March
27	Dr. Umashankar Ghugar	CSE	SCOPUS	Performance Assessment of Different Sustainable Energy Systems Using Multiple-Criteria	March

				Decision-Making Model and Self-Organizing Maps	
28	Prof. Asimkiran Dandapat	CSE	SCI Indexed Journal, Springer	Design of Intrusion Detection System using GA and CNN for MQTT-based IOT Networks	March
29	Dr. Narendra Kumar Dewangan	CSE	SCOPUS	Development of a Secure and Transport Blockchain for Electricity Bill Management in Smart Cities Using Enhanced Proof of Energy Consumption	March
30	Dr. Bhupesh Kumar Dewangan	CSE	SCOPUS	Continuous hand gesture segmentation and acknowledgement of hand gesture path for innovative effort interfaces	March
31	Dr. Bhupesh Kumar Dewangan	CSE	Nonlinear Studies, SCOPUS	Assessment of respiratory disorders using MFCC and LPC applied to machine learning algorithms. Nonlinear Studies, 31(1)	March
32	Dr. Bhupesh Kumar Dewangan	CSE	International Conference on Computer & Communication Technologies	Comparative Analysis of ARIMA Time Series Model and Other Techniques for Cloud Workloads Performance Prediction. In the International Conference on Computer & Communication Technologies (pp. 343-350). Singapore: Springer Nature Singapore.	March
33	Dr. Bhupesh Kumar Dewangan	CSE	International Conference on Computer & Communication Technologies	Reinforcement Learning Approach to Solve: PBL Markov Model. In International Conference on Computer & Communication Technologies (pp.	March

			Technologies	333-342). Singapore: Springer Nature Singapore.	
34	Dr. Bhupesh Kumar Dewangan	CSE	International Conference on Computer & Communication Technologies	A Lightweight Encryption Method for Preserving E-Healthcare Data Privacy Using Dual Signature on Twisted Edwards Curves. In International Conference on Computer & Communication Technologies (pp. 69-82). Singapore: Springer Nature Singapore.	March
35	Dr. R. S. Singh	SoS	Langmuir	Influence of Nano-CeO ₂ and Graphene Nanoplatelets on the Conductivity and Dielectric Properties of Poly(vinylidene fluoride) Nanocomposite Films	January
36	Dr. Arindam Patra	SoS	Reflections in Ink: An Anthology of English Literature	Establishing Sustainable Human-Nature Interaction Today, Tomorrow and Beyond: An Ecotopian Reading of Amitav Ghosh's The Living Mountain: A Fable of Our Times	January
37	Dr. S. Jeswani	SOM	Prabhandan - Indian Journal of Management	The Underlying Motivational Process Behind Faculty Members' Voice Behavior: An Experimental Design	February
38	Dr. Saurabh Gupta	SOM	The Case Journal	Millet Magic Foundation: A Social Initiative for Alleviating Poverty of the Indigenous Tribes of Mayurbhanj	February
39	Dr. Sukanta Sahoo	SOM	Book	Services Marketing in Health Care Sector – A case Approach	March

40	Dr.H.Vaishnaw	SOM	Journal of Informatics Education and Research	Key Success Factors of Technology-Driven Startups in India: An Empirical Study	February
41	Dr.H.Vaishnaw	SOM	European Economic Letters	Employer Branding Tactics for Elevating Attractiveness in Recruitment	February
42	Dr.H.Vaishnaw	SOM	Journal of Informatics Education and Research	Exploring Student's Perception of Employability Training	January
43	Dr. Saurabh Gupta	SOM	Journal of Enterprising Communities: People and Places in the Global Economy	Drivers of Indigenous Entrepreneurship: An Empirical Investigation of Indian Tribal Youth	January

2. IP Publications

Sr. No.	IP Registration Number	Name of Faculty	School/Department	File Date	National/International	Status
1	379249-001	1. Dr RD Patidar 2. Dr G Madhusudhana Rao 3. Dr Sushree Diptimayee 4. Mr Prashanta Kumar Jena 5. Shashikanth Kaushaley 6. Mr. Rakesh Patidar 7. Mr Kapol Nashine	EE	13/02/2024	National	Published
2	202421011347	Dr. R.D. Patidar, Dr. S.S. Chakrabarti, Dr. Deepayan	Mech, EE, Civil	19/02/2024	National	Published

		Priyadarshi, Mr. Bhakta Kumar Sethi and Dr. Satish Kanhed				
3	202421006581	Dr. Rekha Sharma	SOM	31/01/2024	National	Published

3. Details of Seed Money Grants:

S. No.	Project Title	Investigators	Department	Sanctioned Date	Amount Sanctioned	Remarks
1	Development and characterization of Cement less alkali activated Controlled Low Strength Material (CLSM) using industrial waste-A state of art of sustainable development for industrial perspectives. a. Project Summary (in 200 words only): Controlled	Dr. Mahashakti	CIVIL	15/12/2022	30000/-	Awaiting Completion Report
2	Development of low-cost PV cooling technology by application of fly ash as insulating material	Dr. Kuber Nath and Dr. Siddharth Chakrabarti	Mechanical	14/10/2022	25000/-	Phase – I report submitted and Phase – II work worth Rs. 10000/- is sanctioned on 22/02/2024
3	Microstructural and tribological performance of	Dr. Nidhi and Dr. Vatsala	Metallurgy	14/10/2022	30000/-	Awaiting Completion Report

	Cu/NbC nano composites through powder metallurgy route					
4	Development of Arduino Nano based Circuit for Cassette AC	Mr. Kapol Nashine	Electrical	20/02/2024	63000/-	Sanctioned

4. RDC events:

A felicitation ceremony has been organized to honor the research contribution of Dr. S. Das, steel chair Professor and Head, Metallurgical Engineering. He has been listed in the Top 2% scientists of the world as per the latest research survey by the Stanford University. The ceremony was graced by the Hon'ble Vice Chancellor of OPJU, Dr. R.D. Patidar.

