



**5th International Conference  
on  
Innovative Research in Science, Management and Technology**



**13-14 January, 2025**

**VENUE**

Department of Computer Science & Application, Atal Bihari Vajpayee  
University Bilaspur, Chhattisgarh, India

<b>Day 1 - Monday, 13/01/2025</b>		
<b>Time</b>	<b>Event</b>	<b>Venue</b>
<b>9:30 AM</b>	<b>Registration</b>	<b>Registration Desk Ground Floor</b>
<b>11:15 AM</b>	<b>Inaugural Session and Announcement of The GKF International Award-2024</b>	<b>Conference Hall 4th Floor</b>
<b>12:15 PM</b>	<b>Key Note Address by Dr. Siva Prasad Ravi, Director &amp; Professor, School of Business, Nipissing University, Canada on Innovative Research in STEM</b>	
<b>01:15 PM</b>	<b>Hackathon</b>	<b>Ground Floor</b>
<b>01:45 PM</b>	<b>Lunch Break</b>	<b>Second Floor</b>
<b>02:30 PM</b>	<b>Prof. R. Sivasamy Botswana International University of Science and Technology, Botswana on Modelling Consumer Behaviour when Switching Brands</b>	<b>Room No. - 8 Ground Floor</b>
<b>02:30 PM</b>	<b>Expert Talk by Prof. R. K. Janna Associate Professor IIM Raipur on Latest Trends in Research</b>	<b>Room No. - 7 Ground Floor</b>
<b>02:30 PM</b>	<b>Expert Talk by Prof. Keshav Kant Sahu School of Studies in Biotechnology Pt. Ravishankar Shukla University, Raipur on Bacteria: Signalling Agent, Eco-Cleaner and Productivity Enhancer</b>	<b>Room No. - 6 Ground Floor</b>
<b>03:30 PM</b>	<b>Technical Session (Online and Offline) Science, Management, Technology</b>	<b>Room No. - 4,5,6,7,8 Ground Floor</b>
<b>05:30 PM</b>	<b>Cultural Evening followed by High Tea</b>	<b>Conference Hall 4th Floor</b>



**2025 ABVV-AIMT WINTER**





## Program Schedule



03:30 PM to 05:30 PM		Technical Sessions: S-Off-01 Science		Room No.-6	
Session Chair: Prof. K.K. Sahu Pt. Ravishankar University, Raipur			Session Coordinator: Anamika Shukla Sharma		
Session Co-Chair:					
P. ID	Title of Abstract/ Paper			Author Name	
S002	Analysis of Longitudinal Drought Patterns and Variability in Lalitpur District, Uttar Pradesh, India, Using SPI, SPEI Indices, and Machine Learning Techniques			Sudipta Kundu	
S004	Concentration Dependent Analysis of Sn-doped Pd: Stability, Optoelectronic Properties and Catalytic Potential for Direct Ethanol Fuel Cells – A DFT Study			Nayab UI Malik	
S005	Emerging challenges in green chemistry for the treatment of plastic pollutants			Ayushi Roy	
S007	Microwave-assisted Green Synthesis of Tetrahydrobenzo[b]pyrans via One-Pot Multi-component Reactions under Catalyst and Solvent-free Conditions			Dr. (Mrs.) Rita Bajpai	
S012	Alteration in epigenetic regulation can contribute to cancer			Ms. Manju Patel	
S017	Validation of DFT results by experimental data: Optical properties of CdSe thin films			Divya	
S018	Synthesis and luminescence studies on rare earth doped $m_5(po_4)_3x$ ( $m=ca, sr, ba$ ) ( $x=f/cl/br/i$ ) phosphors : a review			Shashi Sahu	
S022	Iot based smart plant monitoring system			Durga Manhar	
S023	Analysis of Rainfall Trends in the Mahanadi Basin Area, Chhattisgarh, India			Dr.Narendranath Guria	
S049	Generative AI in Curriculum Development: A New Era in Education			Dr. Ritesh Verma	
S050	Optimization of Physiological Parameters for Enhanced Production of Single Cell Protein Following Response Surface Methodology			Sharda Devi Rajput	
S051	Therapeutic Efficacies of Phytofabricated Nanoparticles in Combating Accelerated Ageing-Induced Deteriorations			Dr. Rasleen Kaur	



**2025 ABVV-AIMT WINTER**





## Program Schedule



03:30 PM to 05:30 PM		Technical Sessions: S-Off-02 Science	Room No.-5
<b>Session Chair:</b> Dr. D.K. Shrivstava Professor of Botany and OSD, Higher Education		<b>Session Coordinator:</b> Dr. Shriya Sahu	
<b>Session Co-Chair:</b> Dr. Vikas Jain Government Engineering College, Raipur			
P. ID	Title of Abstract/ Paper	Author Name	
S024	Predicting the performance analysis of supervised learning techniques using a cardiovascular disease data	Rajat Kumar Yadu	
S025	A comprehensive review on application of plant based bioadsorbents for effective removal of Cr(VI) from various environmental segments	Moh Injmamul Ain	
S027	Hepatoprotective activity of synthesized propolis nanoparticles against liver damage: In vivo demonstration with a rat model of fibrosis induced by thioacetamide	Shubham Singh	
S029	Multiple Disease Prediction using Machine Learning	Sanjeev Pandey	
S034	Federated learning for privacy-preserving ai in healthcare	Dr. S Pavani	
S037	Data Analysis on predicting a student's academic performance with machine learning algorithms	Vivek Prakash Sahu	
S038	Image processing based image to cartoon generation complexity of large computation arising from deep learning	Dr. Kajal Kiran Gulhare	
S044	A Review on the Development and Recent Trends in Hesitant Fuzzy Logic	Leela Pradhan	
S046	Machine learning based hybrid model for crop recommendation and yield prediction	Shivangi Tiwari	
S047	Mental health prediction using machine learning	Divyanshu Bhardwaj	



**2025 ABVV-AIMT WINTER**





## Program Schedule



<b>03:30 PM to 05:30 PM</b>	<b>Technical Sessions: S-On-03 Science</b>	Room No. Department of Microbiology
-----------------------------	--	--

<b>Session Chair:</b> Dr. DSVGK Kaladhar Microbiology and Bioinformatics, UTD, Atal Bihari Vajpayee University, Bilaspur	<b>Session Coordinator:</b> Prof. L. K. Gavel
--	--

**Session Co-Chair:**

P. ID	Title of Abstract/ Paper	Author Name
S001	Transforming Invasion into Innovation : A comprehensive review of water hyacinth utilisation for sustainable management	Arunima Basu Ray
S006	Study on structural , electronic and optical properties of Mn-doped zns thin films	Sandhya
S011	Theoretical Insights into the Structural, Electronic and Optical properties of cubic and hexagonal cds	Sapana Soni
S021	Flavors of nature: cassia tora soup redefines functional foods	Yashwant Kumar Patel
S033	Dietary Plants of Solanaceae Family for Treatment and Prevention of Kidney Stone: a Microcosm study	Botta Ankita
S035	Structural, Electronic and Optical Properties of Gallium Doped Palladium: A First Principle Approach	Sajal Biswas
S039	A Comprehensive review on Synthesis and Characterization of Carbon-supported Copper Oxide Nanomaterials, and their Environmental applications	Neeta Gupta
S040	Fuzzy used Innovations in Energy Systems: Bridging Complexity and Sustainability	Kalpana Kashyap
S041	Neuro fuzzy systems for pattern recognition	Pushpendra Kumar Shriwas



<https://meet.google.com/zff-nqqo-rug>

Link to Join Online Presentation



## Program Schedule



03:30 PM to 05:30 PM		Technical Sessions: M-On-Off-01 Management	Room No.-4
<b>Session Chair:</b> Dr. Pushkar Dubey Pt. Sunderlal Sharma (Open) University, Bilaspur		<b>Session Coordinator:</b> Mr. Vivek Tiwari	
<b>Session Co-Chair:</b>			
P. ID	Title of Abstract/ Paper	Author Name	
M001	Comparative analysis of consumer matrices between traditional and omni channel marketing strategies within the manufacturing sector in India	Aishwarya Gupta	
M004	Revolutionizing Business: Exploring the Applications of Artificial Intelligence	Manharan Anant	
M007	A Study on Tax and Investment Literacy among Salaried Class Women in Bilaspur Chhattisgarh.	Pooja Bibay	
M008	Green Supply Chain Management: Challenges and Best Practices	Dr. Dewasish Mukherjee	



<https://meet.google.com/dke-moaf-tft>  
Link to Join Online Presentation



**2025 ABVV-AIMT WINTER**





## Program Schedule



03:30 PM to 05:30 PM		Technical Sessions: T-Off-01 Technology		Room No.-8	
<b>Session Chair:</b> Prof. Sivasamy Ramasamy Botswana International University of Science and Technology, Botswana			<b>Session Coordinator:</b> Ms. Gargee Shukla		
<b>Session Co-Chair:</b> Dr. S. K. Singhai DTE Raipur					
P. ID	Title of Abstract/ Paper	Author Name			
T031	Integrating Deep Learning And Explainable AI For Accurate Flood Mapping	Sonu Purohit			
T032	Evaluating CNN Architectures And Explainable AI For Building Segmentation In Satellite Images	Tannu Kumar Soni			
T056	Iot Based Intelligent Wheelchair With Alert System	Saumya Dewangan			
T057	Ai Based Book Recommendations System Website	Kuldeep Kumar Sahu			
T058	Deep Learning Techniques For Vehicle Detection And Classification	Leeladhar Kumar Gavel			
T064	Improving Prenatal Care With Deep Learning-Based Fetal Growth Prediction	Kauleshwar Prasad			
T066	Myocardial Disease Prediction And Classification Using Data Mining Technique	Dr. Prem Kumar Chandrakar			
T069	An Efficient Integrated Cloud Based Smart Electric Switching System For Home Automation	Devlal Patel			
T070	Autonomus Robo-Car With Integrated Spy Camera (Spy-Robo)	Lema Dewangan			
T109	"Revolutionizing Soil Management With Machine Learning: Toward Sustainable And Empowered Agriculture"	Mr. Satya Prakash Banjare			
T094	Multimodal Machine Learning for Mental Health: A Systematic Review	Bhushan Kumar			
T110	Quantum-inspired approaches in medical imaging: a review of machine learning techniques for early disease detection	Vivek Tiwari			



**2025 ABVV-AIMT WINTER**





## Program Schedule



03:30 PM to 05:30 PM		Technical Sessions: T-Off-02 Technology	Room No.-7
<b>Session Chair:</b> Dr. Pawan Patnaik Pt. Ravishankar University, Raipur		<b>Session Coordinator:</b> Ms. Anjali Barman	
<b>Session Co-Chair:</b> Dr. Swati Jain NIT Raipur			
P. ID	Title of Abstract/ Paper	Author Name	
T071	An adaptive radar networks for enhanced detection	Putul Kumari	
T074	Iot based integrated fish monitoring system	Svejal Gupta	
T075	Animal species recognition system using deep learning	Akhilesh Pratap	
T076	Comparative analysis of machine learning algorithms using hyper-parameter technique for prediction of breast cancer	Khushbu Verma	
T078	Study and analysis of Congestion control techniques in iot Network	Gomed Kumar Pathak	
T090	Plant disease detection system for smart agriculture	Neeraj Yadav	
T096	Automated multiple choice question generation from transformation models	Shriya Sahu	
T097	Data imputation insight with machine learning in various domains	Shriya Sahu	
T099	Enhancing machine learning based heart disease prediction through feature selection	Harish Kumar Dewangan	
T100	Machine learning based diabetes risk prediction	Palak Joshi	
T003	Generative AI Innovations in Healthcare System and Its Uses	Anjali Barman	
T105	Eyeheal: a machine learning-based network tool for eye health	Deepesh Kumar Dwivedi	



**2025 ABVV-AIMT WINTER**





## Program Schedule



03:30 PM to 05:30 PM		Technical Sessions: T-On-03 Technology	
Session Chair: Dr. Ayush Kumar Agrawal Dr. C.V. Raman University, Bilaspur		Session Coordinator: Puspesh Kashyap	
Session Co-Chair:			
P. ID	Title of Abstract/ Paper	Author Name	
T001	Soil Fertility Prediction and Crop Management in Agriculture Using Machine Learning	Saima Roomi	
T004	Impact of Machine Learning Algorithms on Digitally Evaluation Process of School Student Performance	Dr.(Assistant Professor) Khushbu Agrawal	
T005	The text introduces a multifactor security protocol for wireless payment, focusing on secure web authentication using biometric characteristics	Neha Dwivedi	
T006	A Comparative Study for Cryptographic Algorithm in Zigbee Network	Shipra Agrawal	
T008	Software vulnerability detection: a comprehensive survey	Himanshu Yadav	
T012	Presentation Attack Detection Through Iris Biometric using Enhanced 2D-CNN Method	Dharmendra Kaushik	
T021	Enhancing Musculoskeletal Abnormality Detection with Vision Transformers: A Fine-Tuned Approach Using the MURA Dataset	Deepak Kant Netam	
T027	Transformer-based sentiment analysis of amazon fine food reviews	Ranjan Kumar	
T034	Crop disease classification using k-means clustering algorithm.	Madan Mohan Mishra	
T035	Harnessing AI for Early Diagnostic Biomarker Discovery in Pancreatic Cancer	Suresh Babu P	
T046	A review on machine learning approach for heart disease prediction	Rajshree Chandra	
T111	Aspect level sentiment analysis of user-generated text in hindi: a linguistic approach	Motechand Patel	
T112	Rule-based sentiment analysis for hindi-english code-mixed expressions: a linguistic approach	Harish Chandr Singh	

<https://meet.google.com/eex-tiim-qim>  
Link to Join Online Presentation



**2025 ABVV-AIMT WINTER**







## Program Schedule



03:30 PM to 05:30 PM		Technical Sessions: T-On-04 Technology
Session Chair: Dr. S. Pavani, C.M.D. College, Bilaspur		Session Coordinator: Dr. Kajal Gulahare
Session Co-Chair:		
P. ID	Title of Abstract/ Paper	Author Name
T065	Coverage and Connectivity Optimization in Wireless Sensor Networks with Contiki Cooja”	Bindu Kumari
T073	Comprehensive Review of Signature-Based Intrusion Detection Systems for iov Security	Dr. Ayush Kumar Agrawal
T079	Energy-Efficient Vision Transformers: Adaptive Computation for Resource-Constrained Edge Devices	Dhaneshwar Suryavanshi
T082	A Review: Stock Price Forecasting Using Time Series Models and Opinion Mining from Social Media and News Data	Ms. Namrata Sharma
T091	Enhancing Academic Performance Prediction for Computer Science Students using AI and Machine Learning Techniques	Dr.Ragini Shukla
T093	Exploring Recent Advancements in Data Mining Algorithms	Harsha Pandey
T095	Understanding the Impacts and Challenges of Cybercrime: Insights from a Qualitative Analysis	Ayush Kumar Agrawal
T098	Handwritten digit recognition with deep learning	Jeetendra Kumar
T102	Cache Coherence in Emerging Technologies	Mukesh Kashyap
T103	A Review on AI Based Cyber Security Mechanisms	Deepak Kumar Deshmukh
T028	Improved Diagnostic Clarity in CT Brain Images Using Adaptive Gamma and Contrast Limited Adaptive Histogram Equalization	Dr Pramod Singh
T059	Cracks in Concrete Structures and Their Prediction Through Machine Learning	Ashish Pradhan
T061	Energy-Efficient Cluster-Based Communication in Mobile Wireless Sensor Networks using Multiple Mobile Sink: A Baseline Model	Akanksha Gupta



<https://meet.google.com/kfv-ufmb-bvq>  
Link to Join Online Presentation



### 2025 ABVV-AIMT WINTER

