



SWAMI KESHVANAND INSTITUTE OF
TECHNOLOGY, MANAGEMENT & GRAMOTHAN



BY
RAJASTHAN TECHNICAL
UNIVERSITY (RTU), KOTA

वासंतिक अंक - 56



CONSECUTIVELY FOR 7th YEAR

THE SKIT TIMES 2024



SKIT DOCUDRAMA CLUB



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VISION

To promote higher learning in advanced technology,
management skills and industrial research
to make our country a global player

MISSION

To promote quality education, training and research
in the field of engineering & management
by establishing effective interface with industry and
to encourage faculty to undertake industry
sponsored projects for students

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THE EDITOR SPEAKS



HOLISTIC TECHNOLOGY FOR A BALANCED FUTURE: THE NEW PARADIGM

In an era characterized by rapid technological advancements and complex global challenges, the necessity for a holistic approach to technology has become increasingly evident. Holistic technology, which focuses on integration, sustainability, and ethical considerations provides a comprehensive framework for addressing multifaceted issues. This approach looks beyond addressing individual technological problems in isolation, instead considering the broader context in which these technologies operate. It prioritizes sustainability, ethical considerations, user well-being, and the long-term impacts on society and the environment.

Holistic technology aims to minimize negative environmental impacts by promoting the use of renewable resources, reducing waste, and encouraging sustainable production practices. It involves the active participation of communities in the development and deployment of technologies, ensuring their perspectives and needs are considered. This approach emphasizes raising public awareness about the benefits and risks associated with new technologies, fostering informed decision-making, and encouraging the development of robust regulatory frameworks that promote ethical practices, sustainability, and equitable access to technology. It advocates for creating adaptable and resilient systems that can evolve with changing circumstances and emerging needs.

Examples of holistic technology in practice include Precision Agriculture, Solar Microgrids, Industrial Symbiosis, LEED-Certified Buildings (Green Building Design), Integrated Water Resources Management (IWRM), Telemedicine and Mobile Health, and Zero-Waste Initiatives. These examples illustrate how technology can be designed and implemented to address complex challenges in a comprehensive and balanced manner. By addressing the complex interrelationships within technological systems, holistic technology aims to create solutions that are not only innovative but also responsible and sustainable.

Dr. Anupriya Singh
EDITOR-IN-CHIEF

COVER STORY

Unleashing Creative Sparkle: The Success Story of the Docudrama Club at SKIT

Dramatics has become a vital tool not only for entertainment but also in academia, fostering engagement, cultural understanding, and various skills crucial for personal and professional development. The Docudrama Club at SKIT was founded in 2009 with a vision to provide students with a platform to nurture their creative talents and foster collaborative learning.

The Team and Modus Operandi

The club success is rooted in the strong bond between seniors, who serve as mentors, and juniors, who learn from their experiences. Through dedicated strategies and passion, the club has established itself as a beacon of excellence in dramatic storytelling and social engagement. Key activities include research and scriptwriting, talent recruitment, rehearsals and workshops, performance excellence, community engagement, participation in competitions and festivals, feedback mechanisms, and celebrations of achievements.

Achievements and Laurels

The club has actively showcased its talent not only within the campus but also in prestigious universities and IITs. Notably, the club has represented SKIT in the zonal competitions of IITs for the past five years, clinching the first position in the Zonals at IIT Bombay this year. Individual members, such as Vagya Gupta, have also garnered recognition, with Gupta securing the second prize in the solo act competition at IIT Bombay. Additionally, the club has received numerous awards for its stage and street plays performed at renowned universities in Jaipur. Further expanding its reach, the club has released several documentaries accessible through its official YouTube channel.

The Docudrama Club at SKIT stands as a shining example of harnessing creativity and fostering collaborative learning. Through its dedication to excellence and social engagement, the club continues to inspire and empower students, leaving an indelible mark on the institution and beyond.

Dr Neha Purohit

Dr Deepika Jain

(Faculty Mentors of Docudrama Club)

BASANT PANCHAMI CELEBRATED AT SKIT

Basant Panchmi pooja was organized at the institute on 14 February, 2024. It marks the beginning of preparations for the spring season. It is believed that one can acquire knowledge and wisdom by seeking the blessings of the goddess Saraswati. The Faculty and staff celebrated the festival with fun and enthusiasm.

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GLIMPSE OF PUJA

REPUBLIC DAY CELEBRATED

75th Republic Day was celebrated at SKIT with full solemnity. The flag-hoisting ceremony took place in the front lawns of the Civil Block. Dr. S.L. Surana, (Director, Academics); Dr. Ramesh Kumar Pachar, Principal, SKIT; and Mr. Jaipal Meel, Director, SKIT graced the occasion. Students showcased their talent by singing songs of patriotic fervor. The dance performance of the students enthralled everyone. Dr. Surana in his address conveyed the importance of Republic Day and asked the students to work for nation-building.

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SKIT CONTINUES TO BE AT THE TOP POSITION

In the recently announced Rajasthan Technical University rankings (2023-2024), SKIT has once again secured the top position among the technical institutes in Rajasthan. This remarkable achievement marks the seventh consecutive year of SKIT grabbing the coveted position. It is truly an outstanding achievement for the institution.

SMART INDIA HACKATHON-2023 CULMINATED IN A SPECTACULAR GRAND FINALE AT SKIT, JAIPUR

The grand finale of the Smart India Hackathon 2023 was held at SKIT on December 20, 2023. This marked the culmination of an incredible journey driven by innovation, ingenuity, and the collective brilliance of the nation's sharpest minds. The dignitaries who graced the event include the Chief Guest Prof. M. P. Poonia, Former Vice Chairman of AICTE; and the Guest of Honour Dr. Ramanan Ramanathan, First and Former Mission Director, Atal Innovation Mission, Niti Aayog, Govt. of India. Their presence added immense value providing insights and encouragement that inspired all participants. The program was also graced by the presence of Prof. Rajive Kumar, Member Secretary of AICTE; Dr. Mohit Gambhir, President and CEO of Verispire Corp., USA, Former and Founder Director, Innovation Cell, MIC-AICTE, MoE, Govt. of India; Ms. Aishwarya Patil, Nodal Officer; and Prof. Puneet Sharma, Anchor DD National, Media Advisor Smart India Hackathon. Mr. Ajay Dhanopia and Dr. Neelam Choudhary were the convenors of the event.

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SKIT STUDENTS VISITED 'IT VOICE EXPO 2024'

The NGO Bharadwaj Foundation, Jaipur organized North India's biggest IT Trade Fair, 'IT Voice Expo 2024' at Rajasthan International Centre, Jaipur from 16 to 18 February, 2024 with an objective to provide exposure to students to the latest AI technologies & other IT areas. A total of 50 students from SKIT participated in the event.



SKIT SHOWCASED THE ONLINE SESSION ON 'VIKSIT BHARAT-2047'

SKIT showcased the session on 'viksit Bharat-2047' launched by the Hon'ble Prime Minister Shri Narendra Modi as a major initiative on 11 December, 2023. The program was live on link for webcast: pmindiawebcast.nic.in. 'Viksit Bharat@2047' is the vision of the Government of India to make India a developed nation by 2047, the 100th year of its independence. More than 200 hundred students with faculty members attended this program. The main objective of the programme was to make the youth aware of the enormous work that needs to be undertaken in the form of a bold, ambitious and transformative agenda to make India 'Viksit Bharat' by 2047.



'RAJASTHAN VIGYAN MAHOTSAV' ORGANIZED

Institute Innovations Council(IIC) in collaboration with the Incubation Cell organized 'Rajasthan Vigyan Mahotsav' from 26 to 28 March, 2024 with an objective to involve students, teachers, academicians, scientists, researchers and farmers to recognize and celebrate scientific heritage. Several outreach activities of international level were organized. A total of 23 students participated in the programme.



PROJECT 'AUTOMATED HYDROPONICS WITH MONITORING & CONTROL' GRABBED SECOND POSITION IN NATIONAL SCIENCE EXHIBITION, RAJASTHAN VIGYAN MAHOTSAV 2024

To celebrate National Science Day-2024, the event 'Indigenous Technologies for Viksit Bharat' was organized in collaboration with the Department of Science & Technology, Rajasthan; Vigyan Bharti, Rajasthan; CSIR-CEERI, Pilani & University of Rajasthan at Regional Science Centre and Science Park from 26 to 28 February, 2024. The Project 'Automated Hydroponics with Monitoring & Control' presented by Vanshaj Kataria of VI Sem, Snehal Jain and Ashita Bansal of IV Sem with Mr. Abhinandan Jain as the faculty mentor grabbed second position in National Science Exhibition during the event.



envisioned for the country's future. Dr. Nidhi Sharma, Dr. Swati Arora, and Dr. Amit Jhalani were the coordinators of the event.

EVENT 3: CULTIVATING ETHICAL EXCELLENCE: A 3-DAY WORKSHOP ON CODE OF CONDUCT AND PROFESSIONAL ETHICS FOR TECHNICAL STAFF

A 3-day workshop on 'code of Conduct and Professional Ethics' for the members of the technical staff was organized from from15 to 17 February, 2024. As the workshop drew to a close, participants reflected on their learning and devised actionable strategies for integrating ethical principles into their daily work practices. Dr. Nidhi Sharma, Dr. Swati Arora, and Dr. Amit Jhalani were the coordinators of the event.

'PROBLEM DISCUSSION SESSION' IN VILLAGE BY UNNAT BHARAT ABHIYAN CLUB ORGANIZED

The 'Problem Discussion Session' is a significant community initiative organized by the UBA Club (Unnat Bharat Abhiyan) on 6 January, 2024. It consisted of visits to two notable schools in the region, RajkiyaPraveshika Madhyamik Sanskriti Vidyalaya, Malwa and Rajkiya PrathmikVidyalaya, Khera, Jagannathpura. The main objective of this event is to understand the educational needs of the village, identify areas for improvement in local schools, and help students excel academically and develop a positive mindset.

The dedicated team from the UBA Club and E-cell played a pivotal role in this meeting. They engaged with the students to comprehend their challenges and offer solutions. The faculty members who coordinated this activity are Prof. Monika Mathur (ECE Dept.) Dr. Kiran Rathi (ECE Dept.), Mr. Dinesh Kumar (ECE Dept.) and Dr. Amit Jhalani (Mechanical Dept.).

DESIGN INNOVATION AND ENTREPRENEURSHIP (IDE) BOOTCAMP-2024 BY E CELL

IDE Bootcamp-2024 was organized by E Cell from 29 January to 2 February, 2024 with an objective to provide

A five-day workshop for office staff was organized from 11 to 15 December with an objective to instill within them the principles of human values and a robust code of conduct within corporate environments. Drawing from real-life scenarios, facilitators highlighted the tangible impact of aligning actions with ethical principles. Dr. Nidhi Sharma, Dr. Swati Arora, and Dr. Amit Jhalani were the coordinators of the event.



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The Universal Human Values and Ethics Committee organized a five-day Faculty Development Programme (FDP) on 'Viksit Bharat: Vision for India @ 2047' from 16 to 20 January, 2024 with an objective to equip educators with the knowledge, skills, and perspectives necessary to nurture citizens and build a thriving nation by the year 2047. Facilitators and guest speakers provided insights into the socio-economic, political, and technological landscape



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DEPARTMENTS OF COMPUTER SCIENCE ENGINEERING & INFORMATION TECHNOLOGY

guidance to the students to explore various career alternatives as entrepreneur, to motivate the students to explore their skills in order to enhance the community of new startups; to educate them about the do's and don'ts in startups and to enable them to assess their interests and abilities. In this event, alumni of SKIT- Mr. Ankit Dhir (2011 batch and founder of start-up named HABLELABS PVT LTD); Mr. Hitesh Sharma (2013-17 batch and founder of SHRISHTI TEXTILES); and Mr. Divyansh Maheshwari (2019-21 batch and founder of GADGET VILLA) were invited to motivate and guide the students in their journey towards a successful entrepreneurship. Mr. Ajay Dhanopia was the event coordinator.



'ENTREPRENEURSHIP DAY' CELEBRATION SERIES ORGANIZED

A 3-day 'Entrepreneurship Day' celebration series was organized by E Cell from 7 to 9 November, 2023 with an objective to bring awareness among students about digital marketing and entrepreneurship. It began with the guest lecture of Mr. Manoj Gattani, a motivational speaker and Life Coach who spoke on various aspects of entrepreneurship and



also talked about various platforms where new comers can nurture their thought process and explore the new domain of becoming a job creator. A Poster Making competition was held on the second day of the event where a number of students showed their skills and creativity to portray their thought process and ideas. The winners were awarded with cash prizes. The event was coordinated by Prof. Monika Mathur, Dr. Meenakshi Nawal, Mr. Tarun Sharma, Ms. Dipti Arela, Mr. Yogesh Kumar, and Mr. Manmohan Sharma.

BOOK CHAPTERS PUBLISHED

- | | |
|--------------|--|
| BOOK | : Utilization of AI Technology in Supply Chain Management |
| AUTHOR/S | : H. R. Swapna, S. Geetanjali, K. V. N. Lakshmi, In Digvijay Pandey, Binay Kumar Pandey, Uday Kumar Kanike, A. Shaji George, Prabjot Kaur (Eds.), Mukundan Appadurai Paramashivan, M. S. Nikhil, Pankaj Dadheech, Vikas Vyas |
| BOOK CHAPTER | : Navigating the Transformative Journey: AI's Progression in Business Applications |
| PUBLISHER | : IGI Global |
| BOOK | : Utilization of AI Technology in Supply Chain Management |
| AUTHOR/S | : Sanjeet Singh, Geetika Madaan, H. R. Swapna, Prabjot Kaur, Digvijay Pandey, Pankaj Dadheech, In Digvijay Pandey, Binay Kumar Pandey, Uday Kumar Kanike, A. Shaji George, Prabjot Kaur (Eds.), |
| BOOK CHAPTER | : The Role of Artificial Intelligence in Supply Chain Management |
| PUBLISHER | : IGI Global |
| BOOK | : In Digvijay Pandey, Binay Kumar Pandey, Uday Kumar Kanike, A. Shaji George, Prabjot Kaur(Eds.), Utilization of AI Technology in Supply Chain Management |
| AUTHOR/S | : Binay Kumar Pandey, Asif Iqbal Shah, Rajdip Bhadra Chaudhuri, Pankaj Dadheech, Blessy Thankachan, Dharmesh Dhabliya, A. Shaji George |
| BOOK CHAPTER | : Utilizing Machine Learning in Legal Management to Enhance Supply Chain |
| PUBLISHER | : IGI Global |
| BOOK | : Utilization of AI Technology in Supply Chain Management |

AUTHOR/S : H. R. Swapna, Emmanuel Bigirimana, R. Geetha, Mukundan Appadurai, In Digvijay Pandey, Binay Kumar Pandey, Uday Kumar Kanike, A. Shaji George, Prabjot Kaur (Eds.), Paramashivan, A. Shaji George, Pankaj Dadheech, Vikas Vyas

BOOK CHAPTER : New Insights into Strategic Consumer Behavior from the Field of Operations Management

PUBLISHER : IGI Global

BOOK : Security and Risk Analysis for Intelligent Cloud Computing

AUTHOR/S : Archika Jain, Devendra Kr. Somwanshi

BOOK CHAPTER : Security Aspects in Cloud computing, 2023

PUBLISHER : Taylor & Francis Group, CRC Press

BOOK : Sustainable Development in AI, Blockchain, and E-Governance Applications

AUTHOR/S : Priyanka Sharma

BOOK CHAPTER : Smart Healthcare System, Digital Health and Telemedicine, Management and Emergencies

PUBLISHER : IGI Global

TITLE : Analyzing Crop Yields for the Pricipal Crops of Rajasthan using Machine Learning and Deep Learning

AUTHOR/S : Priyanka Sharma

CONFERENCE : International Conference on Advanced Computing Techniques in Engineering & Technology (ACTET-2023), SKIT, Jaipur; 18 to 19 December, 2023

TITLE : Early Diabetes Detection using Random Forest Classifier based on Machine Learning,

AUTHOR/S : Mani Buttwall, Priyanka Sharma, Pradnya patil

CONFERENCE : IEEE International Conference on Advances in Sciences and Technology (ICAST-2023), SKIT, Jaipur; 8 to 9 December, 2023

TITLE : A Study on Large Scale Applications of Big Data in Modern Era

AUTHOR/S : Dharmi Kapadiya, Chezal Shekhawat, Priyanka Sharma

CONFERENCE : International Conference on Information Management & Machine Intelligence (ICIMMI-2023), PIET, Jaipur, 14 to 16 December, 2023

PAPER PUBLISHED IN CONFERENCE PROCEEDING

TITLE : Relevance of Blockchain within the Framework of Industry 4.0: A Study

AUTHOR/S : Astha Joshi

PROCEEDING : International Multidisciplinary Conference on Emerging Trends and Perspectives in Research and Innovations (Imcetpri-2024) 23 to 24 February, 2024.

PAPERS PRESENTED IN CONFERENCES

TITLE : Stock Market Trends Analysis using Extreme Gradient Boosting (XGBoost)

AUTHOR/S : Priyanka Sharma, Mayank Kumar Jain

CONFERENCE : IEEE International Conference on Computing, Communications and Intelligent Systems (ICCCIS-2023), Sharda University, Greater Noida, UP, India, Muthoot Institute of Technology and Science, Kochi; 3 to 4 November, 2023

FDPs ATTENDED

TITLE : IoTs and Embedded Systems

DATE : 15 to 19 January, 2024

ATTENDED BY : Shanu Tripathi

ORGANIZED BY : NITTTR, Chandigarh

TITLE : Tax Planning Financial Planning & Filing of ITR

DATE : 21 to 25 February, 2024

ATTENDED BY : Shanu Tripathi

ORGANIZED BY : SKIT, Jaipur

TITLE : E-Learning Content Development

DATE : 21 to 25 January, 2024

ATTENDED BY : Shanu Tripathi, Archika Jain, Sanju Chaudhary, Sunita Gupta, Naveen Jain

ORGANIZED BY : SKIT, Jaipur

TITLE : Recent Developments in Nano Electronics devices: Challenges and Opportunities

DATE : 11 to 16 December, 2023

ATTENDED BY : Shanu Tripathi

ORGANIZED BY : SKIT, Jaipur (Sponsored by ATAL Academy)

TITLE : Applications of AI & Data Science in Healthcare
 DATE : 29 January to 3 February, 2024
 ATTENDED BY : Shanu Tripathi, Nikhar Bhatnagar, Dr. Sanwta Ram Dogiwal, Astha Joshi, Sanju Chaudhary, Richa Rawal, Naveen Jain, Anjali Pandey, Astha Joshi, Shikha Srivastava, Vipin Jain, Praveen Yadav, Manoj Raman, Suchita Arora, Sunita Gupta, Shalini Singhal, Dolly Mittal, Ritu Shukla
 ORGANIZED BY : SKIT, Jaipur (Sponsored by ATAL Academy)

TITLE : AI/ML and Data Science for Industry 4.0
 DATE : 29 January to 2 February, 2024
 ATTENDED BY : Archika Jain
 ORGANIZED BY : NITTTR

TITLE : UHV in Higher Education for Viksit Bharat @2047
 DATE : 16 to 20 January, 2024
 ATTENDED BY : Archika Jain, Priyanka Sharma, Hina Lala, Aakriti Sharma, Nilam Choudhary, Amit Kumar Sharma, Shanu Tripathi, Richa Sharma, Maina Changeriwal, Meenakshi Nawal, Barkha Jain, Megha Gupta, Mithlesh Arya, Praveen Yadav, Nikhar Bhatnagar, Sunita Gupta, Sanju Chaudhary, Richa Rawal, Suchita Arora, Astha Joshi, Shalini Singhal, Naveen Jain, Manoj Raman, Vipin Jain, Anjali Pandey, Dolly Mittal, Ritu Shukla
 ORGANIZED BY : UHV&E C and Department of Management Studies, SKIT

TITLE : Applications of AI and Data Science in Healthcare
 DATE : 29 January to 3 February, 2024
 ATTENDED BY : Archika Jain
 ORGANIZED BY : SKIT, Jaipur

TITLE : Intellectual Property Rights, Product Development & Entrepreneurship
 DATE : 13 to 17 February, 2024
 ATTENDED BY : Pankaj Dadheech
 ORGANIZED BY : Poornima College of Engineering, Jaipur

TITLE : A Comprehensive Exploration of Cognitronics by Unraveling Technologies
 DATE : 6 to 10 February, 2024
 ATTENDED BY : Pankaj Dadheech
 ORGANIZED BY : Poornima College of Engineering, Jaipur.

TITLE : AI & NLP integrated IoMT System for Smart Healthcare in Indian Languages
 DATE : 11 to 16 December, 2023
 ATTENDED BY : Pankaj Dadheech, Priyanak Sharma
 ORGANIZED BY : Poornima Institute of Engineering & Technology, Jaipur

TITLE : Recent Trends in Communication, Computing & Networking
 DATE : 8 to 12 January, 2024
 ATTENDED BY : Pankaj Dadheech
 ORGANIZED BY : Poornima College of Engineering, Jaipur.

TITLE : Recent Trends in Science & Technology 2.0
 DATE : 20 to 24 November, 2023
 ATTENDED BY : Pankaj Dadheech
 ORGANIZED BY : Arya College of Engineering and IT, Jaipur

TITLE : Advance Technologies in Artificial Intelligence & Data Analytics
 DATE : 19 to 23 February, 2024
 ATTENDED BY : Nikhar Bhatnagar
 ORGANIZED BY : Department of CSE, Astana IT University, Astana, Kazakhstan

TITLE : Smart Manufacturing
 DATE : 18 to 23 December, 2023
 ATTENDED BY : Sunita Gupta
 ORGANIZED BY : Department of Mechanical Engineering, SRM Institute of Science and Technology, Ramapuram

TITLE : AI Evolution: From Foundations to Generative AI under TechSaksham
 DATE : 11 to 15 December, 2023
 ATTENDED BY : Richa Rawal, Suchita Arora, Sanju Chaudhary, Praveen Yadav
 ORGANIZED BY : Microsoft, SAP, AICTE

TITLE : Entrepreneurship Essentials
 DATE : 4 to 16 December, 2023
 ATTENDED BY : Richa Rawal
 ORGANIZED BY : Chitkara University, Punjab

TITLE : Recent Trends in Science and Technologies 2.0
 DATE : 20 to 24 November, 2023
 ATTENDED BY : Sanwta Ram Dogiwal
 ORGANIZED BY : Arya College of Engineering & I.T, Jaipur

TITLE : A Comprehensive Exploration of Cognitronics by Unraveling Technologies

DATE : 6 to 10 February, 2024
ATTENDED BY : Nikhar Bhatnagar, Astha Joshi
ORGANIZED BY : PCE, Jaipur

WORKSHOP ATTENDED

TITLE : Application of IoT in Industrial Automation
DATE : 7 October, 2023
ATTENDED BY : Archika Jain
ORGANIZED BY : PCE, Jaipur

STTPs/SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE : Recent Trends in Communication, Computing & Networking
DATE : 8 to 12 January, 2024
ATTENDED BY : Archika Jain, Nikhar Bhatnagar, Astha Joshi, Praveen Yadav, Sunita Gupta, Naveen Jain, Dolly Mittal
ORGANIZED BY : PCE, Jaipur

TITLE : Lab-Market 1.0 Recent Trends in Engineering
DATE : 9 to 13 December, 2023
ATTENDED BY : Manoj Raman, Ritu Shukla, Suchita Arora, Naveen Jain
ORGANIZED BY : Department of Electrical Engineering, PCE, Jaipur

NPTEL / mooKIT/ IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : Public Speaking
COMPLETED BY : Shanu Tripathi
DURATION & CATEGORY : July to October, 2023
(12-week). Awarded (Silver + Elite) certificate

SESSION CHAIRED

SESSION ON : Sustainable Data Security & Cloud Computing
CHAIRD BY : Pankaj Dadheech
DATE & VENUE : 18 to 19 March, 2024; International Conference on Sustainable Computing (SUSCOM-2024) at Sri Balaji College of Engineering & Technology, Jaipur

SESSION ON : Cyber Physical Systems
CHAIRD BY : Pankaj Dadheech
DATE & VENUE : 7 to 9 December, 2023, International Convention on Soft Computing and its Engineering Applications at Smt. Chandaben Mohan bhai Patel Institute of Computer Applications, Charotar University of Science and Technology, Changa.

EXPERT TALK DELIVERED

TITLE : Network Security & Cryptographic Checksums
DATE & VENUE : 11 November, 2023 facilitated by World Resources Webinar, World Economic Forum.

DELIVERED BY : Pankaj Dadheech

TITLE : Cloud Computing: How Cloud computing is changing IT
DATE & VENUE : 10 February, 2024 facilitated by World Resources Webinar, World Economic Forum.

DELIVERED BY : Pankaj Dadheech



Lakshay Pareek, CSE, II Sem

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNATIONAL CONFERENCE ON 'NEW AND RENEWABLE ENERGY RESOURCES FOR SUSTAINABLE FUTURE' ORGANIZED

The 4th International Conference on 'New and Renewable Energy Resources for Sustainable Future' (ICONRER-2023) was organized in collaboration with the Institution of Engineers India (IEI) and the Department of Mechanical Engineering, Assuit University, Egypt from 2 to 4 November, 2023.

The inaugural ceremony was graced by the presence of the Chief Guest, Shri Ajitabh Sharma, Chairman and Managing Director of Jaipur City Transport Services Limited, Jaipur; the Presiding Guest, Shri Anil K Narang from the Department of Atomic Energy, Bhabha Atomic Research Centre, and the Guest of Honor, Dr. Golo J. Pilz, President of India Care Trust, Berlin, Germany and Adviser on Renewable Energy at the Brahm Kumaris Ashram, Abu Road, Rajasthan. Shri Ajitabh emphasized upon the dire need for sustainable solution and motivated the students to engage themselves in the realms of renewable and sustainable energy positioning India as a global leader. Thereafter, Shri Anil K Narang highlighted about the technological advancements in the field of nuclear energy, and Dr. Golo J Pilz described the sustainable practices being followed at the Brahm Kumari ashram, Mount Abu in the form of solar cooking system to meet the cooking need and solar pv system to meet other energy needs in a sustainable way for past 25 years. He also mentioned about the installation of 1MW solar CSP based thermal power plant to meet the electricity needs. Prof. Dheeraj Joshi, Head, Dept. of ME proposed the vote of thanks. This was followed by a session of Dr. Akhilendra Pratap Singh from the Indian Institute of Technology, BHU who presented his research on the development of Homogenous Charged Compression Ignition (HCCI) Engines. He mentioned the challenges and opportunities with HCCI engines. Shri Subir Karmakar, Deputy General Manager, NTPC Limited delivered the keynote address during the conference.

The day 2 of the conference began with a plenary talk by Prof. Dilip Sharma from MNIT, Jaipur on the topic, 'Journey from IC engines to Electric Vehicles'. He added that hybrid

Engines are the need of hour and emphasized that transition of energy is towards improvement in H/C ration which will be infinite with hydrogen as a fuel. This was followed by a session of Dr. Ravindra Kumar Sharma from Bhabha Atomic Research Centre, Trombay who presented his research on the development of energy storage technology with emphasis on capacitor energy storage technologies. The participants were also taken on an industrial visit to IOCL operated Compressed Biogas Plant at Hingonia Gaushala, Jaipur where they saw the production of nearly 3000 m³ gas using the cow dung. In addition to this, participants also visited the milking process and its cooling, pasteurization and packaging followed by a delightful conference lunch.

On day 3, Prof. PMV Subbarao enlightened the gathering with his talk on the development of sustainability indices. He explained the theory of energy and explained the sustainable way to operationalize nature's blessings in the form of anna. In the same session, Dr. Narayan Lal Jain delivered his plenary talk on biofuels and its classification.

Prof. Ashish Nayyar was the chief coordinator of the conference, while Mr. Dinesh Kumar Sharma, Mr. Ankit Agarwal and Dr. Chandan Kumar were the convenors and Mr. Naveen Kumar Sain was the organizing secretary. Over 300 papers were submitted and the Conference Proceeding titled 'Energy and Sustainability' was also published.

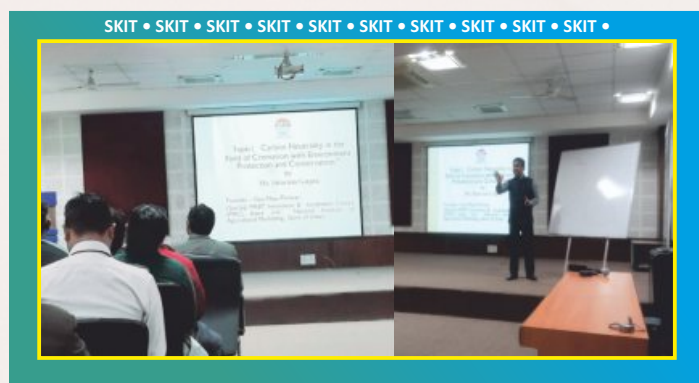


GLIMPSE OF THE CONFERENCE

EXPERT TALK ON 'CARBON NEUTRALITY IN FIELD OF CREMATION WITH ENVIRONMENT PROTECTION AND CONSERVATION' ORGANIZED

An expert talk on 'Carbon Neutrality in Field of Cremation with Environment Protection and Conservation' by Mr. Sitaram Gupta, Founder - Gaumaya Pariwar Startup, MNIT Innovation & Incubation Centre (MIIC), Jaipur & National Institute of Agricultural Marketing, Govt. of India was organized on 28 February, 2024. He emphasized on the religious importance of cow dung in cremation process, cow

ding's Palletization process and cow as an economical and sustainable model for the society. The vote of thanks was given by Prof. Ashish Nayyar. A total of 44 students participated in the talk.



PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE : Energy Consumption Analysis of Welding Techniques: A Comparative Review
AUTHOR/S : Brij Mohan Sharma, Manu Augustine, Naveen Kumar, Saurabh Gupta
PROCEEDING : ICONRER 2023, organized by Department of Mechanical Engineering, SKIT, Jaipur, 2 to 4 November, 2023

TITLE : Challenges in Battery Thermal Management for Electric Vehicles: A Bibliometric Analysis
AUTHOR/S : Naveen Kumar Sain, Chandan Kumar, Praveen Saraswat, Manu Augustine, Ashish Nayyar
PROCEEDING : ICONRER 2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : Thermal Management Solutions using PCM for Photovoltaic Panels: A Critical Review of Performance.
AUTHOR/S : Arun Beniwal, Chandan Kumar, Manu Augustine, Naveen Kumar Sain
PROCEEDING : ICONRER 2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : Performance and Emission of Diesel Engine fueled by blend of Additives, Biodiesel, and Nanoparticles.
AUTHOR/S : Nitin Goyal, Monika Khurana, Namita Soni, Monu Gupta, Sumita
PROCEEDING : ICONRER 2023, organized by

Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : Recent Advances and Trends in Carbon Dioxide Capture Technologies: A Review.
AUTHOR/S : Brij Mohan Sharma, Sandeep Kumar Bhaskar, Manu Augustine, Vinay Singh Marwal, Vikash Gautam
PROCEEDING : ICONRER 2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : Sustainable Machining Practices during Milling Process: A Review
AUTHOR/S : Sandeep Kumar Bhaskar, Manoj Kumar Sain, Praveen Saraswat
PROCEEDING : ICONRER 2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : Application of Python Software in Improvement of Plastic Injected Mould Thin Shell Components with Taguchi Method and GA
AUTHOR/S : Deepak Kumar, Achin Srivastav and Vikash Gautam
PROCEEDING : ICONRER 2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to November, 2023

TITLE : Forecasting of Carbon Emissions and Development of Renewable Energy in India
AUTHOR/S : Achin Srivastav, Deepak Kumar, Prem Singh, Chandan Kumar and Nidhi Srivastav
PROCEEDING : ICONRER 2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : A Conceptual Framework for Achieving Sustainability in Supply Chain using Industry 4.0 Technologies in Emerging Economies
AUTHOR/S : Vaibhav Sharma, Praveen Saraswat, Rajeev Agrawal
PROCEEDING : FIP WG 8.6 Conference 2023, 15 to 16 December 2023 at IIM Nagpur

TITLE : A Review of Nuclear Energy: Sustainability and Environmental Friendliness for the Future
AUTHOR/S : Brij Mohan Sharma, Arun Beniwal, Vinay Singh Marwal, Avinash Mittal

PROCEEDING : ICONRER 2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : Exploration of Diesel-oxygenated Fuel Blends: An Experimental Investigation and Numerical Simulation

AUTHOR/S : Chandan Kumar, Mukesh Kumar, Umesh Kumar Das, K. B. Rana, Sumit Sharma, Achin Srivastav and Naveen Kumar Sain

PROCEEDING : ICONRER 2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : Vibration Behavior Analysis of Functionally Graded Annular Piezoelectric Plate for Free-Free Boundary Conditions

AUTHOR/S : Trivendra Kumar Sharma, Madhukar K Raichand, Chandra Mohan Kumar, Prem Singh, Sanjay Choudhary, Sanjay Bairwa.

PROCEEDING : Proceedings of ICONRER-2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : Experimental Insights into Charging and Discharging Behavior of a Triplex Tube Heat Exchanger-Based Latent Thermal Energy Storage System

AUTHOR/S : Sanjay Choudhary, Dinesh Kumar Sharma, Dilip Sharma, Digambar Singh, Saurabh Gupta.

PROCEEDING : Proceedings of ICONRER-2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : Design and Analysis of a Phase Change Material-based Thermal Energy Storage System for Enhanced Solar Energy Utilization

AUTHOR/S : Sanjay Choudhary, Dinesh Kumar Sharma, Trivendra Kumar Sharma, Sanjay Bairwa, Manoj Kumar Saini, Sunil Kumar

PROCEEDING : ICORNER-2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : Operational Issues and Challenges for a Solar Powered Vapor Absorption Cooling System Integrated with Hybrid Thermal Energy Storage for Dual Applications of Milk Chilling and Space Cooling

AUTHOR/S : Dinesh Kumar Sharma, Dilip Sharma, Ahmed Hamza H Ali, Vishnu Agarwal, Hemant Raj Singh

PROCEEDING : ICORNER-2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : Solar Surge: Accelerating Sustainability through the Expansion of Solar Energy Installations

AUTHOR/S : Dinesh Kumar Sharma, Dilip Sharma, Ahmed Hamza H Ali, Vishnu Agarwal, Hemant Raj Singh

PROCEEDING : National Summit on Green and Digital Technology for Sustainable Future organized by IIT Roorkee Alumni Association Jaipur Chapter, February 17, 2024 at Rajasthan International Center (RIC), Jaipur, Rajasthan.

TITLE : A Critical Review on the Impact of Slaughterhouses and Meat Production Industries on Global Warming

AUTHOR/S : Amit Jhalani, Raj Kumar, Ankit Agarwal, Arun Beniwal, Trivendra Kumar Sharma

PROCEEDING : Proceedings of ICONRER-2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : A Review on Baffle and Tube Orientation for Augmented Heat Transfer in Shell and-Tube Heat Exchangers

AUTHOR/S : Arun Beniwal, Ashish Nayyar, Chandan Kumar, Brij Mohan Sharma

PROCEEDING : Proceedings of ICONRER-2023.

TITLE : Enhancing Solar Dryer Design and Performance: A Review of Indirect Type Solar Dryers

AUTHOR/S : Arun Beniwal, Chandan Kumar, K. B. Rana, Ankit Kumar Agarwal

PROCEEDING : Proceedings of ICONRER-2023.

TITLE : Application of Laser-based Manufacturing Processes for Aerospace Applications

AUTHOR/S : Aditya Purohit, Brij Mohan Sharma, Tapas Bajpai, Pankaj Kumar Gupta

PROCEEDING : Proceedings of ICONRER-2023.

TITLE : Development and Improvement in Heat Transfer and Friction Behaviour of Solar Air Heater

AUTHOR/S : Raj Kumar, Kedar Narayan Bairwa, Amit Jhalani

PROCEEDING : Proceedings of ICONRER-2023.

TITLE : A Review on Solid Biomass Fuel as a Sustainable Energy Source
AUTHOR/S : Naveen Kumar Sain, Chandan Kumar, Ashish Nayyar, K. B. Rana
PROCEEDING : ICONRER 2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : Drying Kinetics and Quality Assessment of Curry Leaves in an Indirect Solar Dryer with Thermal Energy Storage
AUTHOR/S : Ankit Kumar Agarwal, Chandan Kumar, Amit Jhalani, Arun Beniwal, Naveen Kumar Sain
PROCEEDING : ICONRER 2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : Experimental Investigation and Simulation of Fuel Blends and Exhaust Gas Recirculation (EGR) in CI Engine
AUTHOR/S : Chandan Kumar, Ashish Nayyar, Ankit Kumar Agarwal, Naveen Kumar Sain
PROCEEDING : ICONRER 2023, organized by Department of Mechanical Engineering, SKIT Jaipur, 2 to 4 November, 2023

TITLE : A Comprehensive Framework for Sustainability Assessment in a Shielded Metal Arc Welding (SMAW) Process
AUTHOR/S : Dheeraj Joshi, Praveen Saraswat, Sandeep Kumar Bhaskar
PROCEEDING : ICONRER 2023

TITLE : Design and Analysis of a Phase Change Material-based Thermal Energy Storage System for Enhanced Solar Energy Utilization
AUTHOR/S : Sanjay Choudhary, Dinesh Kumar Sharma, Trivendra Kumar Sharma, Sanjay Bairwa, Manoj Kumar Saini, Sunil Kumar
PROCEEDING : Proceedings of ICONRER 2023

FDPs ATTENDED

TITLE : Recent Developments in Nano-Electronic Devices Challenges and Opportunities
DATE : 11 to 16 December, 2023.
ATTENDED BY : Manoj Kumar Sain, Ankit Kumar Agarwal, Praveen Saraswat, Chandan Kumar, Sudesh Garg, Madhukar Kumar
ORGANIZED BY : AICTE ATAL and SKIT, Jaipur

TITLE : Additive Manufacturing Advancements and Different Applications (AMADA-23)
DATE : 26 to 31 December, 2023.
ATTENDED BY : Manoj Kumar Sain, Dharmendra Hariyani, Ankit Kumar Agarwal, Amit Kumar Bansal, Vinay Singh Marwal, Achin Srivastav, Prem Singh, Monika Khurana, Nitin Goyal, Saurabh Gupta, Sudesh Garg, Chandra Mohan Kumar, Brij Mohan Sharma, Vishnu Jangid, Amit Jhalani, Monu Gupta, Sunil Kumar, Namita Soni, Madhukar Kumar, Nikhil Sharma, Manoj Kumar, Mohd. Suhaib Ansari
ORGANIZED BY : SRM Institute of Science and Technology, Chennai

TITLE : Entrepreneurship Essentials.
DATE : 4 to 16 December, 2023.
ATTENDED BY : Deepak Kumar, Ankit Kumar Agarwal, Achin Srivastav, Prem Singh, Monu Gupta, Sanjay Bairwa, Trivendra Kumar Sharma
ORGANIZED BY : Chitkara University, Punjab

TITLE : Smart Manufacturing
DATE : 18 to 23 December, 2023.
ATTENDED BY : Deepak Kumar, Amit Kumar Bansal, Vikash Gautam, Achin Srivastav, Prem Singh, Monika Khurana, Saurabh Gupta, Sudesh Garg, Chandra Mohan Kumar, Brij Mohan Sharma, Vishnu Jangid, Sunil Kumar, Madhukar Kumar, Manoj Kumar
ORGANIZED BY : SRM Institute of Science and Technology, Ramapuram

TITLE : Universal Human Values
DATE : 16 to 20 January, 2024
ATTENDED BY : Deepak Kumar, Chandan Kumar, Vinay Singh Marwal, Nitin Goyal, Arun Beniwal, Chandra Mohan Kumar, Brij Mohan Sharma, Raj Kumar, Amit Jhalani, Sunil Kumar, Madhukar Kumar, Trivendra Kumar Sharma, Sanjay Choudhary
ORGANIZED BY : SKIT, Jaipur

TITLE : Intellectual Property Right and Patent Drafting
DATE : 4 to 12 January, 2024
ATTENDED BY : Vinay Singh Marwal, Prem Singh, Arun Beniwal, Chandra Mohan Kumar, Brij Mohan Sharma, Vishnu Jangid, Amit Jhalani, Madhukar Kumar
ORGANIZED BY : AMET University, Chennai

TITLE : Design, Process and Application of Additive Manufacturing

DATE : 22 to 27 January, 2024
 ATTENDED BY : Amit Kumar Bansal, Vinay Singh Marwal, Prem Singh, Saurabh Gupta, Chandra Mohan Kumar, Brij Mohan Sharma, Sunil Kumar
 ORGANIZED BY : EASA College, Palakkadu, Coimbatore

TITLE : E- Learning Content Development
 DATE : 21 to 24 January, 2024
 ATTENDED BY : Chandan Kumar, Vinay Singh Marwal, Achin Srivastav, Nitin Goyal, Saurabh Gupta, Monu Gupta, Sanjay Choudhary, Sanjay Bairwa, Sunil Kumar, Namita Soni, Yogesh Kumar Sharma, Nikhil Sharma, Mohd. Suhaib Ansari
 ORGANIZED BY : SKIT, Jaipur

TITLE : Green Manufacturing
 DATE : 29 January to 2 February, 2024
 ATTENDED BY : Vinay Singh Marwal
 ORGANIZED BY : NITTR Chandigarh

TITLE : Tax Planning, Financial Planning & Filing ITR
 DATE : 21 to 25 February, 2024
 ATTENDED BY : Vinay Singh Marwal, Achin Srivastav, Sanjay Choudhary, Amit Jhalani
 ORGANIZED BY : SKIT, Jaipur

TITLE : NEP 2020 Orientation & Sensitization Programme
 DATE : 22 January to 1 February, 2024
 ATTENDED BY : Prem Singh, Sanjay Bairwa, Madhukar Kumar
 ORGANIZED BY : Indian Institute of Technology (BHU), Varanasi

TITLE : Applications of AI and Data Science in Health Care
 DATE : 29 January to 2 February, 2024
 ATTENDED BY : Sudesh Garg
 ORGANIZED BY : SKIT, Jaipur sponsored by AICTE ATAL

TITLE : Intellectual Property Rights, Product Development & Entrepreneurship
 DATE : 13 to 17 February, 2024
 ATTENDED BY : Sudesh Garg, Raj Kumar, Monu Gupta, Sunil Kumar, Amit Jhalani
 ORGANIZED BY : Poornima Innovation & Incubation Cell, PCE, Jaipur.

TITLE : Latest Trend and Techniques in Software Engineering; An industry Perspective
 DATE : 20 to 27 January, 2024

ATTENDED BY : Monu Gupta
 ORGANIZED BY : CHRIST University Bangalore

TITLE : Health and Wellness for Managing a Healthy Lifestyle.
 DATE : 27 November to 1 December, 2023
 ATTENDED BY : Sanjay Bairwa
 ORGANIZED BY : Vidya Vikas Institute of Engineering & Technology, Mysuru

TITLE : Qualitative Research Analysis using NVivo Software.
 DATE : 20 to 24 January, 2024
 ATTENDED BY : Sunil Kumar
 ORGANIZED BY : XIMI, Jaipur.

TITLE : Sustainable Environment – An Engineering Perspective, 2024
 DATE : 8 to 13 January, 2024
 ATTENDED BY : Sunil Kumar, Nikhil Sharma, Mohd. Suhaib Ansari
 ORGANIZED BY : Assam Engineering College, Guwahati.

TITLE : Application of VR/AR in manufacturing NITTTR
 DATE : 18 to 22 December, 2023
 ATTENDED BY : Nikhil Sharma, Manoj Kumar, Mohd. Suhaib Ansari
 ORGANIZED BY : NITTTR, Chandigarh.

TITLE : Advance AutoCAD NITTTR
 DATE : 15 to 19 January, 2024
 ATTENDED BY : Nikhil Sharma
 ORGANIZED BY : NITTTR, Chandigarh.

STTPs/SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE : e-STTP on Green and Sustainable Energy Technologies (GSET-2023)
 DATE : 27 to 31 December, 2023.
 ATTENDED BY : Manu Augustine, Praveen Saraswat, Amit Kumar Bansal, Achin Srivastav, Prem Singh, Saurabh Gupta, Sudesh Garg, Chandra Mohan Kumar, Brij Mohan Sharma, Sanjay Bairwa, Madhukar Kumar, Trivendra Kumar Sharma
 ORGANIZED BY : Department of Mechanical Engineering, NIT, Hamirpur.

TITLE : Lab Market 1.0 Recent Trends in Engineering
 DATE : 9 to 13 December, 2023
 ATTENDED BY : Amit Jhalani, Sanjay Choudhary, Sunil Kumar, Trivendra Kumar Sharma, Nikhil Sharma
 ORGANIZED BY : Poornima College of Engineering, Jaipur.

TITLE : Recent Trends in Communication,
Computing and Networking
DATE : 8 to 12 January, 2024
ATTENDED BY : Achin Srivastav
ORGANIZED BY : Poornima College of Engineering, Jaipur

DEPARTMENT OF ELECTRONICS & COMMUNICATION

NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : Waste to Energy Conversion
COMPLETED BY : Namita Soni, Sumita
DURATION & CATEGORY : January to March, 2024 (8-week).
Awarded Elite+ 5% topper

COURSE/ TOPIC : Introduction to Machining &
Machining Fluids
COMPLETED BY : Vinay Singh Marwal
DURATION & CATEGORY : January to March, 2024 (8-week).



Lakshay Pareek, CSE, II Sem

INTERNATIONAL CONFERENCE ON 'ADVANCEMENTS IN NANO-ELECTRONICS & COMMUNICATION TECHNOLOGIES' ORGANIZED

An international conference on 'Advancements in Nano-Electronics & Communication Technologies' was organized from 16 to 17 February, 2024. The inaugural ceremony was graced by the presence of the Chief Guest Dr. Dong Suk Han, Qatar University, Qatar; Guest of Honor Dr. Kishor Kumar Sadasivuni, Center for Advanced Materials, Qatar University, Qatar; Dr. Badrul Hisham bin Ahmad, University Teknikal, Malaysia, Melaka and Dr. Pooja Sharma, University of South Bohemia, Czech Republic.

The first day of the conference kicked off with expert talks by Dr. Kishor Kumar Sadasivuni on artificial intelligence-based finger point sensor and bio-inspired solar tracking robot, Dr. Pooja Sharma on polymer metallization, Nano-composite sensors and solar cells; Dr. Aysegul Uygur Oksuz, Suleyman Demirel University, Turkey on 'Advancements in Magnetic Au-Ni Nano-meter based Drug Delivery for Breast Cancer treatment'. This was followed by paper presentation session. On day two, Dr. Sanyog Rawat, Head, Department of Electronics and Communication Engineering (ECE), Central University, Kishangarh, Ajmer gave his expert insights on 'Planar Antennas for Health Monitoring'. Thereafter, there were two parallel sessions of papers presentations. The conference ended with an invited talk by Dr. Arindam Mukherjee from the University of South Bohemia, Czech Republic. He discussed about Atom Diffraction, Thin Film Growth Techniques and XRD Techniques.

36 out of 75 papers were selected for the conference. All presented papers will be published in the conference proceeding with an ISBN no.

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FDP ON 'RECENT DEVELOPMENT IN NANO-ELECTRONICS DEVICES: CHALLENGES AND OPPORTUNITIES' ORGANIZED

A five-day Faculty Development Programme on "Recent Development in Nano-electronics Devices: Challenges and Opportunities" was organized in an offline mode from 11 to 16 December, 2023. Expert speakers- Dr. Mukesh Kumar from Centre for Advanced Electronics (CAE)IIT, Indore; Dr. Preetam Singh, Principal Scientist, CSIR-NPL, New Delhi; Dr. Somesh Kuma from IIITM, Gwalior; Dr. Mahesh Kumar from IIT Jodhpur; Dr. Amit Mahesh Joshi from MNIT, Jaipur; Dr. Anurag Gaur from NSUT, New Delhi; Dr. Pooja Devi, Principal Scientist, CSIR-CSIO, Chandigarh; Mr. Anup Kumar, Physical Design Engineer, eInfochips, Gandhinagar, Gujarat; and Dr. Shashi Kant Sharma from IIIT, Ranchi, Jharkhand discussed about various aspects of Nano-electronics Devices, Challenges and Opportunities. The FDP ended with a valedictory ceemony.

WORKSHOP ON 'ADVANCEMENTS IN COMMUNICATION TECHNOLOGY' ORGANIZED

A three-day workshop on 'Advancements in Communication Technology' was organized in a hybrid mode from 20 to 22 February, 2024. Mr. Ashutosh Agarwal, Director, TESCA was invited to give an expert talk during the inaugural ceremony who discussed about the current state and future of IoT in electronics, addressing challenges & opportunities, and he also presented a case study of successful implementation of IoT in electronics showcasing the real-world impact. This was followed by a hands on session in the project lab. During the subsequent days of the workshop, expert speakers- Dr. Sanjeev Yadav, Central University, Jammu and Mr. Parth

Agarwal, Director (Technical), Jyoti Electronics gave expert talks on various aspects of Smart Antenna Design and 5G communication.

The three-day workshop was held in a hybrid mode which involved one offline session and two online sessions. The faculty coordinators were Dr Kiran Rath, Dr Suman Sharma, and Mr. Dinesh Kumar.

LECTURE SERIES ON 'TECHNOLOGICAL ADVANCES IN ELECTRONICS & COMMUNICATION ENGINEERING' ORGANIZED

A week-long lecture series on 'Technological Advances in Electronics and Communication Engineering' was organized in association with the IETE-WEEC (Women Empowerment in Engineering Committee) and the IETE Jaipur Centre. The Chief Guest for the program was Prof. Sampat Raj Vadera, Dy. Director, IIT Jodhpur and former Director of DRDO Défense Laboratory, Jodhpur. He talked about the New Education Policy and emphasized upon the role of social networking in the foundational development of students. The Guest of Honour Prof. Seema Verma from NITRR Bhopal focused on increasing students' technical participation in aviation sector and discussed the possibilities and opportunities in the Indian aerospace sector. Other expert speakers- Mr. Prabhu Dayal and Mr. Ajit Sharma from the Indian Telecommunication Department talked on cybersecurity and telecom services; Prof. Garima Mathur discussed about components and applications of communication technology; Dr. Amit Sharma shared detailed knowledge on quantum computing and Mr. Sai Krishna from CSIR-Central Scientific Instruments Organization, Pilani, Jaipur Centre discussed about the impact of the Internet of Things (IoT) on our daily lives and society. The valedictory session of the program took place at IETE Bhavan in Malviya Nagar where the IETE chairman Prof. Ghanshyam Singh (MNIT, Jaipur); and other executive



committee members from IETE Jaipur centre were present. Prof. Monika Mathur, Dr Rukhsar Zafar, Dr Ankit Agrawal and Mr. Rahul Pandey were the coordinators of the workshop.

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE	: A Review on Hardware Implementation of Clustering Algorithms
AUTHOR/S	: Mamta Jain, Vikas Pathak, Gloria Joseph, Shubhi Jain, Sitaram Meena
PROCEEDING	: International Conference on Advancements in Nano electronics & Communication Technologies, (ICANCT- 2024), SKIT, Jaipur; 16 to 17 February, 2024.
TITLE	: Comparison of High Level Synthesis of Bubble Check and L-Bubble Check Algorithm for Check Node Processing
AUTHOR/S	: Manju Choudhary, Vikas Pathak, Swati Arora, Neeraj Jain, Sunil Lakhawat
PROCEEDING	: International Conference on Advancements in Nano electronics & Communication Technologies, (ICANCT- 2024), SKIT, Jaipur; 16 to 17 February, 2024.
TITLE	: AI-Based Vehicle Tracking System with Automated License Plate Recognition for Criminal Identification and Helping the Emergency and Medical Transport
AUTHOR/S	: Monika Mathur, Vibhansh Jain, Aditya Sharm, Mayank Gupta, Ameen Zehra
PROCEEDING	: International Conference on Advancements in Nano-Electronics & Communication Technologies (ICANCT 2024), SKIT Jaipur; 16 to 17 February, 2024
TITLE	: Energizing the Future :Advancing Next Gen Wireless Networks Through Simultaneous Wirelesss Information and Power Transfer with Cooperative Realying –A Comprehensive Review
AUTHOR/S	: Shubhi Jain, Avdesh Sharma
PROCEEDING	: International Conference on Advanced Computing Techniques in Engineering & Technology, (ACTET-2023), SKIT, Jaipur, 18 to 19 December, 2023
TITLE	: Innovations in 6G Communication shaping the future of connectivity
AUTHOR/S	: Shubhi Jain, Pallav Rawal, Mamta Jain
PROCEEDING	: International Conference on Advancements in Nano electronics & Communication Technologies, (ICANCT 2024), SKIT, Jaipur; 16 to 17 February, 2024

FDPs ATTENDED

TITLE	: UHV in higher education for viksitBharaat @2047
DATE	: 16 to 20 January, 2024
ATTENDED BY	: Pallav Rawal, Mamta Jain
ORGANIZED BY	: UHV & EC
TITLE	: Applications of AI/Data Science in Healthcare
DATE	: 29 January to 3 February, 2024
ATTENDED BY	: Suman Sharma, Dinesh Kumar
ORGANIZED BY	: ATAL Academy & CSE Department
TITLE	: AI/ML and Data Science for Industry 4.0 (Advanced Level)
DATE	: 26 February to 1 March, 2024
ATTENDED BY	: Manju Choudhary
ORGANIZED BY	: Computer Science and Engineering Department, NITTTR
TITLE	: IoTs and Embedded Systems
DATE	: 15 to 19 January, 2024
ATTENDED BY	: Manju Choudhary
ORGANIZED BY	: Electronics and Communication Engineering Department, NITTTR
TITLE	: AI/ML and Data Science for Industry 4.0 (Advanced Level)
DATE	: 29 January to 2 February, 2024
ATTENDED BY	: Manju Choudhary
ORGANIZED BY	: Computer Science and Engineering Department, NITTTR
TITLE	: Data Science using Python
DATE	: 19 to 23 February, 2024
ATTENDED BY	: Manju Choudhary
ORGANIZED BY	: Computer Science and Engineering Department, NITTTR
TITLE	: Tech Fusion Ventures: The Accelerated Path to Entrepreneurship Development Programme
DATE	: 29 January to 23 February, 2024
ATTENDED BY	: Monika Mathur
ORGANIZED BY	: AMET University, Tamilnadu
TITLE	: Intellectual Property Creation and Commercialization.
DATE	: 4 to 8 December, 2023
ATTENDED BY	: Monika Mathur
ORGANIZED BY	: MSME, Jaipur
TITLE	: Technological Advances in Electronics and communication Engineering

DATE : 19 to 23 February, 2024
 ATTENDED BY : Swati Arora
 ORGANIZED BY : IETE WEEC and IETE Jaipur and SKIT, Jaipur

TITLE : Tax planning, Financial Planning & Filing of ITR
 DATE : 21 to 25 February, 2024
 ATTENDED BY : Pallav Rawal
 ORGANIZED BY : MBA, SKIT, Jaipur

TITLE : Recent Development in Nano electronics Devices: Challenges and Opportunities
 DATE : 11 to 16 December, 2023
 ATTENDED BY : Abhinandan Jain, Jai Prakash Vijay, Neeraj Jain, Shubhi Jain, Manju Choudhary, Suman Sharma, Swati Arora, Rajni Idwal, Ankit Agarwal, Mamta Jain, Gloria Joseph, Monika Mathur, Dinesh Kumar, Monika Mathur
 ORGANIZED BY : ATAL Academy

TITLE : Recent Trends in Artificial Intelligence and Machine Learning for Smart Computing
 DATE : 12 to 16 February, 2024
 ATTENDED BY : Abhinandan Jain, Shubhi Jain
 ORGANIZED BY : Anand International College of Engineering, Jaipur

TITLE : UHV
 DATE : 16 to 20 January, 2024
 ATTENDED BY : Gloria Joseph
 ORGANIZED BY : Anand International College of Engineering, Jaipur

TITLE : Applications of AI & Data Science in Healthcare
 DATE : 29 January to 3 February, 2024
 ATTENDED BY : Jayprakash Vijay, Rajni Idwal
 ORGANIZED BY : ATAL Academy and SKIT, Jaipur

TITLE : Intellectual Property Rights, Product Development & Entrepreneurship
 DATE : 13 to 17 February, 2024
 ATTENDED BY : Jayprakash Vijay
 ORGANIZED BY : ATAL Academy and SKIT, Jaipur

TITLE : E-Learning Content Development
 DATE : 21 to 25 January, 2024
 ATTENDED BY : Shubhi Jain, Suman Sharma, Vikas Pathak,
 ORGANIZED BY : Department of English, SKIT

TITLE : Advancement in Communication Technologies
 DATE : 20 to 22 February, 2024
 ATTENDED BY : Dinesh Kumar
 ORGANIZED BY : Department of ECE, SKIT

WORKSHOPS ATTENDED

TITLE : Innovation, Design and Entrepreneurship (IDE) Bootcamp
 DATE : 29 January to 2 February, 2024
 ATTENDED BY : Pallav Rawal
 ORGANIZED BY : MIC & AICTE

TITLE : Antenna Design Techniques for Various Application
 DATE : 12 to 16 February, 2024
 ATTENDED BY : Shubhi Jain
 ORGANIZED BY : CARE College of Engineering, Trichy in association with IEEE CARE Students Branch- Madras Section.

TITLE : Code of conduct and PE
 DATE : 11 to 16 December, 2023
 ATTENDED BY : Swati Arora
 ORGANIZED BY : UHV Cell, SKIT

PAPERS REVIEWED

TITLE : Role of Dielectric Material of Substrate for the Performance of Microstrip Patch Antenna: A Review
 REVIEWER NAME : Shubhi Jain
 JOURNAL : International Conference on Artificial Intelligence, Advanced Materials, & Mechatronics Systems

TITLE : Proposed Design Model of High Performance Response of Tiny Circular Microstrip Patch Antennas for Wide Band Local Area Networks and Support WiFi System Management
 REVIEWER NAME : Monika Mathur
 JOURNAL : Journal of The Institution of Engineers (India): Series B (IEIB)

EXPERT TALK DELIVERED

TITLE : Tech Fusion Ventures: The accelerated Path to Entrepreneurship Successes.

DATE & VENUE : 6 February, 2024. At four week Technical Entrepreneurship Development Programme organized by AMET University, Tamilnadu

DELIVERED BY : Monika Mathur

DEPARTMENT OF ELECTRICAL ENGINEERING

SESSION CHAIRED

SESSION ON : Advancements in Nano-electronics & Communication Technologies (ICANCT 2024)

CHAIRER BY : Neeraj Jain

DATE & VENUE : 16 to 17 February, 2024; SKIT, Jaipur

SESSION ON : Advanced Computing Techniques in Engineering & Technology (ACTET-2023)

CHAIRER BY : Rukhsar Zafar, Manju Choudhary

DATE & VENUE : 18 to 19 December, 2023, SKIT, Jaipur

SESSION ON : Technovation 2023- International Conference & Technical Paper and Model Contests

CHAIRER BY : Monika Mathur

DATE & VENUE : 21 December, 2023; Poornima Institute of Engineering & Technology, Jaipur

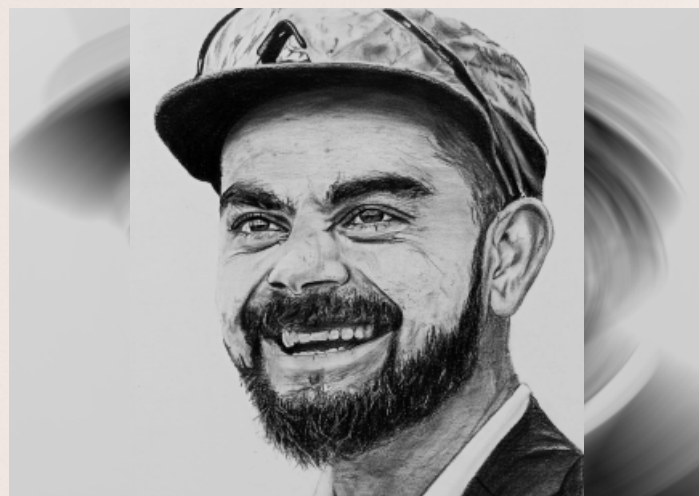
PATENTS PUBLISHED

TITLE : A Novel Human Resource Management System and Employee Compensation Planning System

NAME : Shubhi Jain

PATENT FILED DATE : Application No. 202411006632

PATENT PUBLISHED DATE: 31 January, 2024



Lakshay Pareek, CSE, II Sem

INTERNATIONAL CONFERENCE ON 'ADVANCED COMPUTING TECHNIQUES IN ENGINEERING & TECHNOLOGY' ORGANIZED

An international conference on 'Advanced Computing Techniques in Engineering & Technology' (ACTET-2023) was organized from 18 to 19 December, 2023 in an online mode with an objective to bring together researchers from the academia and the industry in order to address fundamentals of advanced scientific computing, specific mechanisms & algorithms and to exchange their innovative ideas, knowledge, expertise and experience in advance computing techniques in various domains of engineering and technology. The inaugural ceremony was graced by the presence of the Chief Guest Prof. Ramesh C. Bansal from the University of Sharjah, UAE who gave a keynote address sharing his expertise on advancements in Electrical Engineering and their broader implications. The Guest of Honour Prof. Richi Nayak, Deputy Director & Complex Data Analysis Program Leader at the Centre for Data Science, Queensland University of Technology, Brisbane shared his valuable insights on advanced computing and data science. The other keynote speakers during the conference were Prof. Somitra Kumar Sanadhya from IIT, Jodhpur; Prof. Mohammad Rizwan from Delhi Technological University and Dr. Jagdish Chand Bansal from the South Asian University, Delhi.

Dr. Ankush Tondon and Dr. Pooja Jain were the coordinators of the conference.

NATIONAL LEVEL 'PROJECT EXPO 2024' ORGANIZED

The Institution of Engineers (India) Student Chapter, Dept. of Electrical Engineering, SKIT organized a national level 'Project Expo-2024' on 7 March, 2024 at the institute with an objective to provide opportunity to the students to exhibit their potential by showcasing their projects. Students from different colleges participated in the programme. The event was graced by the presence of the Chief Guest, Dr. Vijay Kumar Saxena, Assistant Director, Department of Science and Technology, Rajasthan and the Guest of Honor, Prof. Pushpendra Singh, Professor at JKLU, Jaipur. Dr. Sarfaraz Nawaz was the Convener and Mr. Jinendra Rahul & Mr. Jitendra Singh were the Coordinators of the event.



PAPERS PRESENTED IN CONFERENCES

TITLE	: A Review of Dynamic Economic Dispatch of Hybrid Microgrid
DATE	: 18 to 19 December, 2023
AUTHOR/S	: Prateek Kumar Singhal, D.R. Chitara
CONFERENCE	: International Conference on Advanced Computing Techniques in Engineering & Technology
TITLE	: Different Electrical Energy Storage Tech. used for Renewable Energy Integration Application
DATE	: 18 to 19 December, 2023
AUTHOR/S	: Vivek Sharma and Avadhesh Kumar Sharma
CONFERENCE	: International Conference on Advanced Computing Techniques in Engineering & Technology

FDPs ATTENDED

TITLE	: Latest Trend and Techniques in Software Engineering: An Industry Perspective
DATE	: 20 to 27 January, 2024
ATTENDED BY	: Prateek Kumar Singhal
ORGANIZED BY	: Dept. of CS, CHRIST University, Bangalore
TITLE	: Evaluation Strategies & Classroom Management Skills
DATE	: 5 to 6 February, 2024
ATTENDED BY	: Prateek Kumar Singhal
ORGANIZED BY	: IQAC, Michael Job Memorial College of Education for Women, Coimbatore
TITLE	: Advanced Technologies in Artificial Intelligence & Data Analytics
DATE	: 19 to 23 February, 2024
ATTENDED BY	: Prateek Kumar Singhal
ORGANIZED BY	: Department of CS, Astana IT University, Astana, Kazakhstan

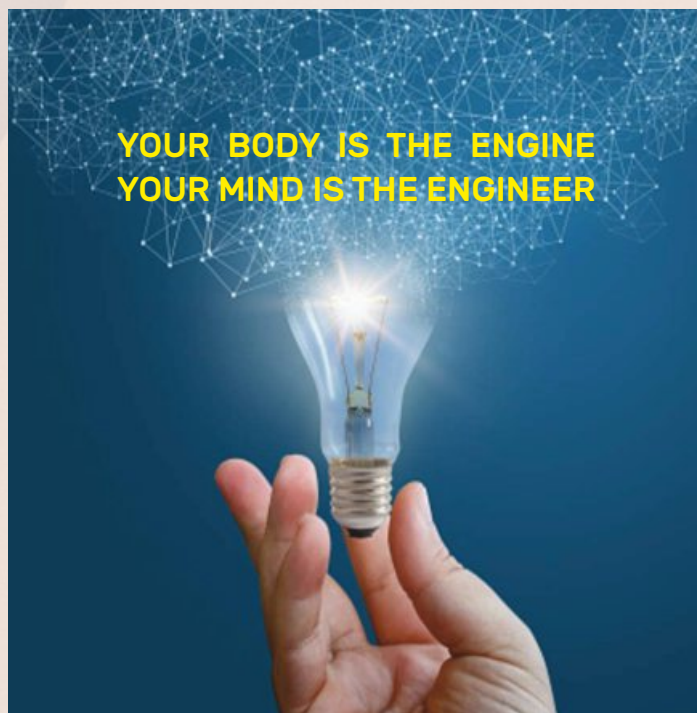
TITLE	: UHV in Higher Education for Viksit Bharat @2047
DATE	: 16 to 20 January, 2024
ATTENDED BY	: Vivek Sharma
ORGANIZED BY	: UHV & EC and Department of Management Studies, SKIT, Jaipur

SESSION CHAIRED

SESSION ON	: Advanced Computing Techniques in Engineering & Technology
CO-CHAIRLED BY	: Prateek Kumar Singhal
DATE & VENUE	: 19 December, 2023; Department of EE, SKIT, Jaipur

STTPs/SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE	: Lab Market 1.0 Recent Trends in Engineering
DATE	: 9 to 13 December, 2023
ATTENDED BY	: Prateek Kumar Singhal
ORGANIZED BY	: IEEE Student branch and Department of EE, PCE Jaipur
TITLE	: Software Tools for Academicians and Researchers
DATE	: 11 to 16 December, 2023
ATTENDED BY	: Prateek Kumar Singhal
ORGANIZED BY	: EE Department, NIT, Hamirpur



CONFERENCE : International Conference on Advanced Computing Techniques in Engineering & Technology (ACTET-2023), SKIT, Jaipur, 18 to 19 December, 2023

FDPs ATTENDED

TITLE	: Advancements in Concrete Technology
DATE	: 2 to 7 November, 2023
ATTENDED BY	: Abhishek Jain, Akash Johari, Deepak Sharma, Gaurav Gupta, Kishan Lal Jain, Pooja Gupta, Vikas Vyas
ORGANIZED BY	: Department of Civil Engineering, BITM, Ballari

TITLE	:	AdditiveManufacturing Advancements in Different Applications
DATE	:	26 to 31 December, 2023
ATTENDED BY	:	Akash Johari
ORGANIZED BY	:	Department of Mechanical Engineering, SRM Institute of Science and Technology, Ramapuram

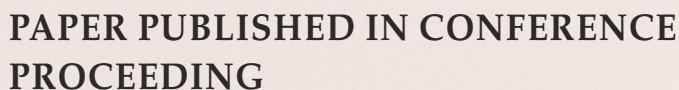
TITLE	: UHV in Higher Education for Viksit Bharat @ 2047
DATE	: 16 to 20 January, 2024
ATTENDED BY	: Akash Johari, Ankur Mishra, Gaurav Gupta, Kishan Lal Jain, Pooja Gupta
ORGANIZED BY	: UHV & EC and Department of Management Studies, SKIT, Jaipur

TITLE	: E- Learning Content Development
DATE	: 21 to 25 January, 2024
ATTENDED BY	: Akash Johari, Deepak Sharma, Gaurav Gupta, Pooja Gupta
ORGANIZED BY	: Department of English, SKIT Jaipur

TITLE	: Affordable Housing Techniques and Practices
DATE	: 12 to 16 February, 2024
ATTENDED BY	: Akash Johari
ORGANIZED BY	: NITTTR, Chandigarh

TITLE	: Tax Planning, Financial Planning and Filing of ITR
DATE	: 21 to 25 February,2024
ATTENDED BY	: Akash Johari, Ankur Mishra, Kishan Lal Jain, Vikas Vyas
ORGANIZED BY	: Department of Management Studies, SKIT, Jaipur

TITLE	: Recent Advancement in Sustainable Energy Sources: Research and Development
DATE	: 26 February to 1 March, 2024



TITLE	: Progressive Collapse Analysis of Reinforced Concrete Buildings
AUTHOR/S	: Sunita Tolani, Kahkashan Khanam, Amit Kumar Sonwal, Kanishka, Aditi Vibhute
PROCEEDING	: Proceedings of 13th Structural Engineering Convention, 7 to 9 December, 2023

PAPER PRESENTED IN CONFERENCE

TITLE : Land Use Change in Selected Districts
of Rajasthan

AUTHOR/S : Sanuj Mohan, Rishabh, Rahul Meena,
Naveen Kumar and Bharathi M.

ATTENDED BY : Akash Johari, Gaurav Gupta,
Vikas Vyas
ORGANIZED BY : Department of Physics, Karpagam
Academy of Higher Education,
Coimbatore

TITLE : Exploring Earth's Moon through
Chandrayaan
DATE : 19 to 23 February, 2024
ATTENDED BY : Akash Johari, Deepak Sharma
ORGANIZED BY : ISRO and IIRS Dehradun

WORKSHOPS ATTENDED

TITLE : Repair and Rehabilitation of Structures
of Hydro Power Projects
DATE : 13 to 14 December, 2023
ATTENDED BY : Pooja Gupta
ORGANIZED BY : Central Water and Power Research
Station, Pune

TITLE : Green Practices for Sustainable
Development
DATE : 6 to 10 February, 2024
ATTENDED BY : Abhishek Jain, Akash Johari, Ankur
Mishra, Pooja Gupta, Vikas Vyas
ORGANIZED BY : Department of Chemistry & Civil
Engineering, SKIT, Jaipur

NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : Introduction to Engineering
Seismology
COMPLETED BY : Sunita Tolani
DURATION & CATEGORY : July to October, 2023 (12 week).
Awarded Elite with Silver
Certificate

COURSE/ TOPIC : Admixtures and Special
Concretes
COMPLETED BY : Rakesh Choudhary
DURATION & CATEGORY : July to October, 2023 (12 week).
Awarded Elite Certificate

STTPs/SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE : Geospatial Analysis using Google Earth
Engine
DATE : 19 to 23 February, 2024
ATTENDED BY : Akash Johari, Deepak Sharma, Kishan Lal
Jain, Vikas Vyas
ORGANIZED BY : ISRO and IIRS Dehradun

PAPERS REVIEWED

TITLE : Study on Bending Performance of 3D
Printed PVA Fiber Reinforced Cement
Based Material
REVIEWER NAME : Abhishek Jain
JOURNAL : Construction and Building Materials

TITLE : Soil Arch Shape Change and Dynamic
Response of Lining Structure for High
Fill Cut-and-Cover Tunnel under Seismic
Loads
REVIEWER NAME : Bharathi M.
JOURNAL : International Journal of Geomechanics,
ASCE

TITLE : Effect of Sloping Ground on the Pile
Behavior under Varying Static Lateral
loads
REVIEWER NAME : Bharathi M.
JOURNAL : Indian Geotechnical Journal

EXPERT TALK DELIVERED

TITLE : Compressibility and Consolidation
DATE&VENUE : 18 December, 2023. At Sri Balaji College
of Engineering and Technology, Jaipur
DELIVERED BY : Nishant Sachdeva

TITLE : Advanced Concrete Technology
DATE&VENUE : 31 January, 2024. At Engineering Staff
Training Institute, Jaipur
DELIVERED BY : Rakesh Choudhary

TITLE : Advanced Concrete Technology
DATE & VENUE : 9 January, 2024. At Engineering Staff
Training Institute, Jaipur
DELIVERED BY : Rakesh Choudhary

M.TECH. SUPERVISED

DISSERTATION TOPIC : Effect of Compaction Temperature
on Warm Mix Asphalt Produced
Using Organic Additive
NAME OF STUDENT : Ankit Nagarwal
GUIDED BY : Nishant Sachdeva

DEPARTMENT OF MANAGEMENT STUDIES

TITLE : An Enhanced Decision Making Method for Strategic Management
NAME : Savita Choudhary
PATENT FILED DATE : 202311073544; 28 October, 2023
PATENT PUBLISHED DATE : 24 November, 2023

PAPERS PRESENTED IN CONFERENCES/ SEMINAR

TITLE : Nonviolent Leadership in Business: Lessons from Gandhi's Satyagraha
AUTHOR/S : Tarun Sharma
SEMINAR : Seminar Gandhi's Vision for India: 1947 to 2047, MAU Jaipur, 2 November, 2023

TITLE : Elevating Women in Senior Management Roles: Influences on Organisational Leadership Strategies
AUTHOR/S : OnaLadiwal
CONFERENCE : Vision 2030 (ETIRP), K.R. Mangalam University; 12 December to 13 December, 2023

TITLE : Bibliometric Analysis of Innovation Strategies in Entrepreneurship and Business Management
AUTHOR/S : OnaLadiwal
CONFERENCE : Conference on Vision 2030 (ETIRP), K.R. Mangalam University; 12 to 13 December, 2023

FDP ATTENDED

TITLE : UHV In Higher Education for Vikshit Bharat @ 2047
DATE : 16 to 20 January, 2024
ATTENDED BY : Tarun Sharma, Ajay Verma
ORGANIZED BY : UHV&EC in association with Department of Management Studies

PATENTS PUBLISHED

TITLE : A Method for Embracing Transformation and Driving Organisational Success in the Digital Age
NAME : Savita Choudhary
PATENT FILED DATE : 202311073233; 27 October, 2023
PATENT PUBLISHED DATE : 24 November, 2023

TITLE : A Smart Decision-Making System For Trade-Off Analysis And Opportunity Cost Assessment
NAME : Atul Gupta, Tarun Sharma, Ajay Verma
PATENT FILED DATE : 202411007082, 31 January, 2024
PATENT PUBLISHED DATE : 9 February, 2024



Lakshay Pareek, CSE, II Sem

"If you wait for customers to tell you that you need to do something, you're too late."

STUART ROSE

DEPARTMENT OF BASIC SCIENCES & HUMANITIES

DEPARTMENT OF MATHEMATICS

PAPERS PRESENTED IN CONFERENCES

TITLE : Enhancing Renewable Energy Deployment and Energy Efficiency: Alternative Technologies for a Sustainable Future
AUTHOR/S : Jyoti Arora
CONFERENCE : ICONRER, 2023, SKIT

TITLE : Entropy Generation for MHD Casson Fluid Flow over a Melting Surface with Slip Effect and Chemical Reaction
AUTHOR/S : Amit Dadheech, Surbhi Sharma
CONFERENCE : ICONRER, 2023, SKIT

FDPs ATTENDED

TITLE : Recent Trends in Mathematics and Technology
DATE : 22 to 29 December, 2023
ATTENDED BY : Vivek Vijay, Nawal Kishore Jangid
ORGANIZED BY : Education and Educational Management Department, NITTTR, Chandigarh

TITLE : Effective Teaching of Mathematical Applications in Engineering
DATE : 26 to 30 December, 2023
ATTENDED BY : Kumar Singhal
ORGANIZED BY : NITTTR Chennai

TITLE : Recent Trends in Mathematics and Technology
DATE : 22 to 29 December, 2023
ATTENDED BY : Vijay Kumar Singhal
ORGANIZED BY : SRM TRP Engineering College, Tiruchirappalli

TITLE : Recent Trends in Science and Technology 2.0
DATE : 20 to 24 November, 2023
ATTENDED BY : Vijay Kumar Singhal, Nawal Kishore Jangid, Amit Dadheech, Jyoti Arora, Surbhi Sharma
ORGANIZED BY : Arya College of Engg. & I.T.

TITLE : UHV in Higher Education for Viksit Bharat @ 2046
DATE : 16 to 20 January, 2024
ATTENDED BY : Nawal Kishore Jangid, Vijay Kumar Singhal, Chandra Prakash Jain
ORGANIZED BY : SKIT, Jaipur

TITLE : E-Learning Content Development
DATE : 21 to 25 January, 2024
ATTENDED BY : Vivek Vijay, Vijay Kumar Singhal
ORGANIZED BY : SKIT, Jaipur

TITLE : Applications of AI & Data Science in Healthcare
DATE : 29 January to 3 February, 2024
ATTENDED BY : Vivek Vijay
ORGANIZED BY : Department of CSE, SKIT

TITLE : Machine Learning
DATE : 20 to 25 November, 2023
ATTENDED BY : Amit Dadheech, Jyoti Arora, Surbhi Sharma
ORGANIZED BY : NSMS Institute of Pharmacy in association with Pantech E learning

TITLE : IoT with Machine Learning
DATE : 27 November to 2 December, 2023
ATTENDED BY : Amit Dadheech, Jyoti Arora, Surbhi Sharma
ORGANIZED BY : PVKK Institute of Technology in association with Pantech E Learning

TITLE : Chatgpt and AI Tools for Academicians
DATE : 27 November to 1 December, 2023
ATTENDED BY : Amit Dadheech, Jyoti Arora, Surbhi Sharma
ORGANIZED BY : ASET College of Science and Technology, Chennai

TITLE : Health and Wellness for Managing a Healthy Lifestyle
DATE : 27 November to 1 December, 2023
ATTENDED BY : Amit Dadheech, Jyoti Arora, Surbhi Sharma
ORGANIZED BY : Department of Management Studies, Vidya Vikas Institute of Engineering & Technology, Mysuru

TITLE : NEP 2020 Orientation & Sensitization Programme
DATE : 18 to 30 December, 2023
ORGANIZED BY : Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Kurukshetra University

ATTENDED BY : Amit Dadheech, Jyoti Arora, Surbhi Sharma

TITLE : Green Practices for Sustainable Development
DATE : 6 to 10 February, 2024
ATTENDED BY : Jyoti Arora, Surbhi Sharma, Pramila Kumawat, Sangeeta Gupta
ORGANIZED BY : Department of Chemistry and Civil Engineering SKIT, Jaipur

TITLE : Pure and Applied Mathematics
DATE : 3 to 9 February, 2024
ATTENDED BY : Vijay Kumar Singhal
ORGANIZED BY : PG and Research Department of Maths, J M College, Tiruchirappalli

TITLE : Enhancing Research Capabilities for Academic Career Progression
DATE : 15 to 19 February, 2024
ATTENDED BY : Sangeeta Gupta
ORGANIZED BY : NITTTT chandigarh

TITLE : Intellectual Property Rights, Product Development & Entrepreneurship
DATE : 13 to 17 February, 2024
ATTENDED BY : Vivek Vijay
ORGANIZED BY : Poornima Innovation & Incubation Cell, PCE, Jaipur

TITLE : Tax planning, Financial Planning & Filing of ITR
DATE : 21 to 25 February, 2024
ATTENDED BY : Chandra Prakash Jain, Sumit Gupta
ORGANIZED BY : Department of Management Studies-SKIT, Jaipur

TITLE : Recent Trends in Artificial Intelligence and Machine Learning for Smart Computing
DATE : 12 to 16 February, 2024
ATTENDED BY : Sumit Gupta
ORGANIZED BY : RTU and Institute of Electronics and Telecommunication Engineers

TITLE : A Comprehensive Exploration of Cognitronics by Unraveling Technologies
DATE : 6 to 10 February, 2024
ATTENDED BY : Sumit Gupta
ORGANIZED BY : RTU and Institute of Electronics and Telecommunication Engineers

TITLE : Latest Trends on Computational Mathematics - Theory, Methods & Applications
DATE : 26 February to 1 March, 2024

ATTENDED BY : Sangeeta Gupta, Sumit Gupta
ORGANIZED BY : JIS University

STTPs/ SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE : Modeling and Simulation in Science And Engineering
DATE : 19 to 23 February, 2024
ATTENDED BY : Sangeeta Gupta
ORGANIZED BY : Malviya National Institute of Technology, Jaipur

TITLE : Latest Trends on Computational Mathematics - Theory, Methods & Applications
DATE : February to 1 March, 2024
ATTENDED BY : Sumit Gupta
ORGANIZED BY : Institute Innovation Council

TITLE : Energizing Sustainability through Renewable Energy Systems
DATE : 18 to 22 March, 2024
ATTENDED BY : Sumit Gupta
ORGANIZED BY : Department of ME, SKIT

TITLE : Mathematical Modelling on Biological & Physical Systems with Different Simulation Techniques
DATE : 4 to 9 January, 2024
ORGANIZED BY : Department of Mathematics, Mahadevananda Mahavidyalaya
ATTENDED BY : Amit Dadheech, Jyoti Arora, Surbhi Sharma

TITLE : Mathematics with computational learning for Engineering and technological applications (MCET 2023)
DATE : 20 to 24 November, 2023
VENUE : Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, India
ATTENDED BY : Chandra Prakash Jain, Vivek Vijay

NPTEL / mooKIT / IITBX / SWAYAM COURSE COMPLETED

COURSE/ TOPIC : Introduction to Methods of Applied Mathematics
COMPLETED BY : Chandra Prakash Jain, Nawal Kishore Jangid
DURATION & CATEGORY : July to October (12- week). Awarded Elite Certificate

COURSE/ TOPIC : A Basic Course in Number Theory
 COMPLETED BY : Vivek Vijay
 DURATION & CATEGORY : July to October (12- week).
 Awarded Silver Certificate

COURSE/ TOPIC : Problem Solving Through Programming in C
 COMPLETED BY : Jyoti Arora
 DURATION & CATEGORY : July to October (12-week).
 Awarded Silver Certificate

COURSE/ TOPIC : Introduction to Basic Spoken Sanskrit and Intermediate Level of Spoken Sanskrit
 COMPLETED BY : Pramila Kumawat
 DURATION & CATEGORY : July to October (12-week).
 Awarded Gold Certificate

PAPERS REVIEWED

TITLE : Numerical Study of Hybrid Binary Al₂O₃ Cu-H₂O Nanofluid Coating Boundary Layer Flow from an Exponentially Stretching/Shrinking Perforated Substrate with Cattaneo-Christov Heat Flux, Heat Source, Suction, and Multiple Slip Effects.
 REVIEWER NAME : Sumit Gupta
 JOURNAL : Numerical Heat Transfer Part B, Taylor and Francis.

TITLE : Unsteady Tetra Hybrid Nanofluid in MHD Flow between Two Parallel Rotating Stretchable Disks under Chemical Reaction and Activation Energy Effects.
 REVIEWER NAME : Sumit Gupta
 JOURNAL : Numerical Heat Transfer Part A, Taylor and Francis.

TITLE : Enhanced Heat Transfer Analysis for Stagnation Point Flow of Hybrid Nanofluids: A Homotopy Analysis Approach.
 REVIEWER NAME : Sumit Gupta
 JOURNAL : Scientific Reports, Nature.

EXPERT TALK DELIVERED

TITLE : Mathematical Insight into Real-World Problems for Mathematics, Statistics and

Computer Science Faculty; AI tools for Research

DATE & VENUE : University of Rajasthan
 DELIVERED BY : Sangeeta Gupta

DEPARTMENT OF CHEMISTRY

NATIONAL WORKSHOP ON 'GREEN PRACTICES FOR SUSTAINABLE DEVELOPMENT' ORGANIZED

A five day national workshop on 'Green Practices for Sustainable Development' was organized by the Departments of Chemistry and Civil Engineering for faculty and research Scholars from 6 to 10 February, 2024 with an objective to generate awareness on sustainability and green practices not only in labs but also in everyday life. Experts from various fields of green practices were invited who shared their valuable insights on how world is transforming itself by employing green technology in every aspect of life. Dr. Narendra Bhojak, Dr. Bhandari, Dr. Garima Kaushik, Dr. Nivedita Kaul, Dr. A. B. Gupta and Dr. Verma from Bikaner University, Central University and MNIT guided the audience to practice green techniques.



GLIMPSE OF THE CONFERENCE

PAPER PUBLISHED IN CONFERENCE PROCEEDING

TITLE : Bioethanol Production from Lignocellulosic Biomass: A Review
 AUTHOR/S : Archana Saxena, Sharda Soni
 PROCEEDING : Proceedings of International Conference on New and Renewable Resources For Sustainable Future (ICONRER - 2023)
 ISBN: 97881-954233-9-2

PAPERS PRESENTED IN CONFERENCES

TITLE	: Use of Nanotechnology for Pollution Treatment: A Review
AUTHOR/S	: Swati Joshi
CONFERENCE	: International Conference on New and Renewable Energy Resources for Sustainable Future, 2 to 4 November, 2023; Department of Mechanical Engineering, SKIT, Jaipur.
TITLE	: Emerging Waste To Energy Technologies for Sustainable Municipal Solid Waste : Review
AUTHOR/S	: Poonam Ojha
CONFERENCE	: International Conference on New and Renewable Energy Resources for Sustainable Future, 2 to 4 November, 2023; Department of Mechanical Engineering, SKIT, Jaipur
TITLE	: Use of Nanomaterials for Air Pollution Control: A Review
AUTHOR/S	: Swati Joshi, Poonam Ojha
CONFERENCE	: International Conference on Recent Trends in Environment and Sustainable Development from 22 to 24 December, 2023; Vivekananda Global University, Jaipur
TITLE	: Study on Control of Air Pollution using Nanotechnology
AUTHOR/S	: Swati Joshi
CONFERENCE	: International Multidisciplinary Conference on Emerging Trends and Perspectives in Research and Innovations, 23 to 24 February, 2024; S. S. Jain Subodh P. G. Mahila Mahavidyalaya, Jaipur
TITLE	: Review on Effects of Fluoride Contamination and Remediation Methods
AUTHOR/S	: Poonam Ojha
CONFERENCE	: International Multidisciplinary conference on Emerging Trends and Perspectives in Research and Innovations, 23 to 24 February, 2024; S. S. Jain Subodh P. G. Mahila Mahavidyalaya, Jaipur
TITLE	: Bioethanol Production from Lignocellulosic Biomass: A Review
AUTHOR/S	: Archana Saxena, Sharda Soni
CONFERENCE	: Conference on New and Renewable Resources for Sustainable Future (ICONRER – 2023) ISBN: 978-81-954233 9-2

FDPs ATTENDED

TITLE	: Green Biotechnology and Bioenergy
DATE	: 18 to 24 December, 2023
ATTENDED BY	: Swati Joshi, Poonam Ojha
ORGANIZED BY	: Department of Biotechnology, Arunai Engineering College, Tiruvannamalai, Tamilnadu
TITLE	: E-learning Content Development
DATE	: 21 to 25 January, 2024
ATTENDED BY	: Swati Joshi, Poonam Ojha
ORGANIZED BY	: Department of English, SKIT, Jaipur

WORKSHOPS ATTENDED

TITLE	: Green Practices for Sustainable Development
DATE	: 6 to 10 February, 2024
ATTENDED BY	: Swati Joshi, Poonam Ojha
ORGANIZED BY	: Department of Chemistry, SKIT, Jaipur

STTPs/SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE	: Indian Perspective on Society, Polity and Development
DATE	: 22 to 26 January, 2024
ATTENDED BY	: Archana Saxena
ORGANISED BY	: MNIT Jaipur

DEPARTMENT OF PHYSICS

PAPERS PRESENTED IN CONFERENCES

TITLE	: Synthesis and Characterization of Nickel Ferrite/ Cobalt Oxide/Graphene Composite for supercapacitor Applications
AUTHOR/S	: Rajiv Kumar
CONFERENCE	: International Conference on Advancements in Nano-electronics & Communication Technologies (ICANCT 2024), 16 to 17 February, 2024

To give life a meaning, one must
have a purpose larger than self.

Will Durant

FDPs ATTENDED

TITLE : Recent Developments in Nano electronics Devices: Challenges and Opportunities
DATE : 16 to 21 December, 2023
ATTENDED BY : Rajiv Kumar, Pawan Kumar Jain, Ajay Kumar Sharma, Komal Sharma, Manasvi Dixit, Rishi Vyas
ORGANIZED BY : SKIT, Jaipur (ATAL Academy sponsored)

TITLE : E-learning content development
DATE : 21 to 25 January, 2024
ATTENDED BY : Rajiv Kumar, Pawan Kumar Jain, Ajay Kumar Sharma, Komal Sharma, Manasvi Dixit, Brajraj Sharma
ORGANIZED BY : Department of English, SKIT, Jaipur

TITLE : Tax Planning, Financial Planning & Filing of ITR
DATE : 21 to 25 February, 2024
ATTENDED BY : Rajiv Kumar, Pawan Kumar Jain, Ajay Kumar Sharma, Komal Sharma, Manasvi Dixit, Brajraj Sharma
ORGANIZED BY : Department of Management Studies, SKIT, Jaipur

TITLE : Recent Advancement in sustainable energy sources: Research & Development
DATE : 26 February to 1 March, 2024
ATTENDED BY : Manasvi Dixit, Komal Sharma
ORGANIZED BY : Department of Management Studies, SKIT, Jaipur

TITLE : Advance Tools and Techniques for Research Methodology
DATE : 26 February to 7 March, 2024
ATTENDED BY : Komal Sharma
ORGANIZED BY : Research Foundation of India & RFI-CARE

TITLE : UHV in Higher Education for Viksit Bharat @2047
DATE : 16 to 20 January, 2024
ATTENDED BY : Ajay Kumar Sharma
ORGANIZED BY : UHV&EC and Department of Management Studies, SKIT, Jaipur

TITLE : Roadmap for patent Creation
Date : Jan to March, 2024
ATTENDED BY : Rishi Vyas
ORGANIZED BY : NPTEL, SWAYAM

WORKSHOPS ATTENDED

TITLE : e-workshop on New IPR2023
DATE : 11 to 16 December, 2024
ATTENDED BY : Manasvi Dixit, Komal Sharma
ORGANIZED BY : Innovative Technology Enabling Centre (InTEC), CSIR IMMT, Bhubaneswar

TITLE : e-workshop on Patent SEA-2024
DATE : 22 to 27 January, 2024
ATTENDED BY : Rishi Vyas, Manasvi Dixit, Komal Sharma
ORGANIZED BY : Innovative Technology Enabling Centre (InTEC), CSIR IMMT, Bhubaneswar

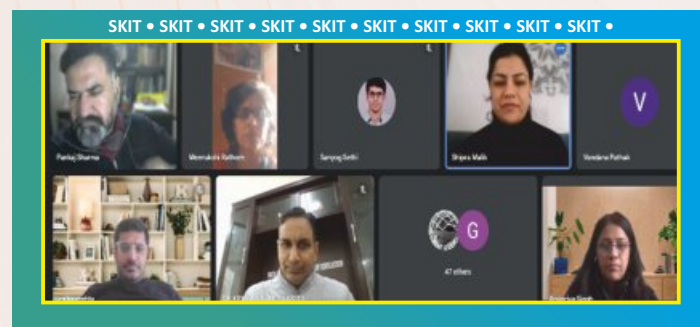
NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : Roadmap for Patent Creation
COMPLETED BY : Rishi Vyas
DURATION & CATEGORY : January to March, 2024 (8 week).
Awarded Topper 5% Certificate

DEPARTMENT OF ENGLISH

FDP ON E-LEARNING CONTENT DEVELOPMENT ORGANISED

A five-day Faculty Development Program was organized in virtual mode in collaboration with the Department of Management Studies from 21 to 25 January, 2024. The FDP aimed to generate awareness among the participants and encourage learning through such a platform. This program aimed to train the participants in understanding the various categorical challenges of developing and implementing e-content. The FDP also involved hands-on content development to make learning more interactive. Dr Anupriya Singh, Dr Geetika Patni, and Dr. Shipra Malik were the coordinators. Invited speakers and resource persons shared their expertise in e-content development. The FDP received a conducive response from the audience.



The more I learn of physics, the more I am drawn to metaphysics.

Albert Einstein

PAPERS PRESENTED IN CONFERENCES

TITLE : An Unusual and Bizarre Fiction: A Reading of J.M. Coetzee's The Childhood and The Schooldays of Jesus

AUTHOR : Sheeba Anjum

CONFERENCE : International Conference on Mapping the Marvelous: Mythopoeia, Multiverse & Fantasy across Literature, Films, and Media;

TITLE : Womanhood to Dragonhood: Identity and Fantasy in Ann Barnhill's When Women were Dragons

AUTHOR : Neha Purohit

CONFERENCE : International Conference on Mapping the Marvelous: Mythopoeia, Multiverse & Fantasy across Literature, Films, and Media; University of Rajasthan, 19 to 21 December, 2023

TITLE : Leveraging Technology for Language Learning: Harnessing Online resources and social media platforms

AUTHOR : Geetika Patni

CONFERENCE : International Conference on Literature, Languages and Linguistics Studies; Research Culture Society, 19 to 21 December, 2023



Lakshay Pareek, CSE, II Sem

PAPERS PUBLISHED

DEPARTMENTS OF COMPUTER SCIENCE ENGINEERING & INFORMATION TECHNOLOGY

TITLE : Modern-age Agriculture with Artificial Intelligence: A Review emphasizing Crop Yield Prediction

AUTHOR/S : Priyanka Sharma, Pankaj Dadheech,

JOURNAL : Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, (Scopus Indexed, Q2)

TITLE : Analysis of COVID-19 Datasets using Statistical Modelling and Machine Learning Techniques to Predict the Disease

AUTHOR/S : Senthil Kumar Nramban Kannan, Bhanu Prakash Kolla, Sudhakar Sengan, Rajendiran Muthusamy, Raja Manikandan Kanubhai K. Patel, Pankaj Dadheech

JOURNAL : SN Computer Science (Scopus Indexed, Q2)

TITLE : Enhancing Video Anomaly Detection Using Spatio-Temporal Autoencoders and Convolutional LSTM Networks

AUTHOR/S : Ghayth Almahadin, Maheswari Subburaj, Mohammad Hiari, Saranya Sathasivam Singaram, Bhanu Prakash Kolla, Pankaj Dadheech, Amol D. Vibhute, Sudhakar Sengan

JOURNAL : SN Computer Science (Scopus Indexed, Q2)

TITLE : Overcoming Occlusion Challenges in Human Motion Detection through Advanced Deep Learning Techniques

AUTHOR/S : Jeba Nega Cheltha, Chirag Sharma, Pankaj Dadheech, Dinesh Goyal

JOURNAL : International Journal of Intelligent Systems and Applications in Engineering (IJISAE), (Scopus Indexed, Q4).

TITLE : Cognitive Equilibrium and Instability: Lyapunov Stability Analysis in Mental Health Research

AUTHOR/S : Verma, Vivek Kumar, Saini, Bhavna,
Jain, Tarun & Dadheech, Pankaj

JOURNAL : Journal of Interdisciplinary
Mathematics (JIM), (Scopus Indexed,Q3).

TITLE : Utilizing Stochastic Differential
Equations and Random Forest for
Precision Forecasting in Stock Market
Dynamics

AUTHOR/S : Sagar, P. Vidya, Rajyalaxmi, M.,
Subbalakshmi, A.V.V.S., Sengan,
Sudhakar, Bommiseti, Ravi Kumar
& Dadheech, Pankaj

JOURNAL : Journal of Interdisciplinary
Mathematics (JIM), (Scopus Indexed, Q3).

TITLE : Advancing Viscoelastic Material
Modeling: Tackling Time-dependent
Behavior with Fractional Calculus

AUTHOR/S : Nowfal, Shaymaa Hussein, Rao,
Ganga Rama Koteswara, Velmurugan,
V., Sengan, Sudhakar, Bommiseti,
Ravi Kumar & Dadheech, Pankaj

JOURNAL : Journal of Interdisciplinary
Mathematics (JIM), (Scopus Indexed, Q3).

TITLE : Modular Metric Spaces: Some Fixed
Point Theorems and Application of
Secure Dynamic Routing for WSN

AUTHOR/S : Siddamsetti, Swapna, Almgoshi,
Hussein Z., Dinesh, K., Prashant, G. C.,
Bennet, M. Anto, Dadheech, Pankaj
& Sengan, Sudhakar

JOURNAL : Journal of Interdisciplinary
Mathematics (JIM), (Scopus Indexed, Q3).

TITLE : Mathematical Exploration Of
Consciousness through Topological
Data Analysis for Decoding
Neurobiological States

AUTHOR/S : Jain, Tarun, Kumar, Ashish, Verma,
Vivek Kumar, Dadheech, Pankaj
& Dogiwal, Sanwta Ram

JOURNAL : Journal of Interdisciplinary
Mathematics (JIM), (Scopus Indexed, Q3).

DEPARTMENT OF MECHANICAL ENGINEERING

TITLE : Experimental Investigation of Surface
Roughness and MRR in Rotary-Ultrasonic
Machining of Float Glass.

AUTHOR/S : Praveen Saraswat, Dheeraj Joshi, Manoj
Kumar Sain, Sandeep Kumar Bhaskar

JOURNAL : EVERGREEN Joint Journal of Novel Carbon
Resource Sciences & Green Asia Strategy,
Vol. 10;(2023) pp. 2675-2682.

TITLE : Experimental Investigation of Float Glass in
Rotary Ultrasonic Machining for Sustainable
Manufacturing

AUTHOR/S : Praveen Saraswat, Naveen Kumar Sain,
Dheeraj Joshi, Sandeep Kumar Bhaskar

JOURNAL : EVERGREEN Joint Journal of Novel Carbon
Resource Sciences & Green Asia Strategy,
Vol. 10; (2023) pp. 2520-2527

TITLE : Process Improvement using Six Sigma
DMAIC in the Bearing Component
Manufacturing Industry: A Case Study.

AUTHOR/S : Sandeep Kumar Bhaskar, Manoj Kumar Sain,
Manu Augustine, Praveen Saraswat,
Brij Mohan Sharma

JOURNAL : International Journal of Industrial and
Systems Engineering, Vol. 45;(2023) pp.
271-290.

TITLE : Impact of Filler on Mechanical and Dynamic
Mechanical Properties of Waste Marble Dust
Filled Aramid Fibre Reinforced Polymer
Composites

AUTHOR/S : Namita Soni, Nitin Goyal, Monika Khurana

JOURNAL : EVERGREEN Joint Journal of Novel Carbon
Resource Sciences & Green Asia Strategy,
Vol. 10; (2023) pp. 2632-2637.

TITLE : An Experimental Investigation of Rotary
Ultrasonic Machining and Mechanical
Property Evaluation on Hand Layup
Fabricated Hybrid Composite

AUTHOR/S : Giriraj Mitharwal, Achin Srivastav, Deepak
Kumar, Vikash Gautam, Varun Kumar

JOURNAL : EVERGREEN Joint Journal of Novel Carbon
Resource Sciences & Green Asia Strategy,
Vol. 10; (2023) pp. 2599-2606.

TITLE : An Investigation on Thermo-Mechanical
Behavior of Injection Moulded PP
Compounds

AUTHOR/S : Deepak Kumar, Vikash Gautam, Achin
Srivastav

*The most memorable people in life
will be the friends who loved you
when you weren't very lovable.*

JOURNAL :	EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 10; (2023) pp. 2614-2619.	AUTHOR/S :	Ceramic Particulate Filled Basalt Fiber Reinforced Epoxy Polymer Composites. Manmohan Meena, BS Pabla, Vikas Sharma, Praveen Saraswat
TITLE :	Development of Regression Equations for Stochastic Inventory System.	JOURNAL :	EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, (2023), Vol. 10 pp. 2564-2569.
AUTHOR/S :	Achin Srivastav, Deepak Kumar, Prem Singh, Nidhi Srivastav		
JOURNAL :	EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 10; (2023) pp. 2654-2660.	TITLE :	Parametric Approach for Making a Building Energy Efficient.
		AUTHOR/S :	Chandan Kumar, Ankit Agarwal, Aishwarya Sharma Kumari, Prem Singh, Achin Srivastav
TITLE :	Analysis of Process Parameter Effect on Surface Roughness and Mechanical Property during Fused Deposition Modeling on PLA.	JOURNAL :	SKIT Research Journal, (2023), Vol. 13 pp. 78-82.
AUTHOR/S :	Mithilesh Kumari, Deepak Kumar, Achin Srivastav		
JOURNAL :	SKIT Research Journal, Vol. 13; (2023) pp. 70-76.	TITLE :	Design and Fabrication of a Portable Vertical Axis Wind Turbine for Sustainable Off-Grid Power Generation
		AUTHOR/S :	Pramod Jain, Saurabh Gupta, Prem Singh, Manoj Kumar Saini, Jancy C Joshwa, Jalaj Prakash Gupta, Kaelin
TITLE :	Morphological Analysis of Injection Molded PP-Alumina Composites.	JOURNAL :	SKIT Research Journal, (2023), Vol. 13 pp. 83-92.
AUTHOR/S :	Deepak Kumar, Achin Srivastav, Vikash Gautam		
JOURNAL :	SKIT Research Journal, Vol. 13; (2023) pp. 65-69.	TITLE :	Thermal Regulation and Performance Enhancement of Solar PV Panel Using PCM Om29
		AUTHOR/S :	Arun Beniwal, Chandan Kumar, Dinesh Kumar Sharma, Amit Jhalani
TITLE :	Investigation on Dry Abrasion Wear of Natural and Synthetic Fiber Reinforced Polymer Composites Filled With Stone Waste.	JOURNAL :	EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, (2023), Vol. 10 pp. 2583-89.
AUTHOR/S :	Vikash Gautam, Deepak Kumar, Ashiwani Kumar, M.J. Pawar		
JOURNAL :	Materials Today: Proceedings, (2023) pp. 16.	TITLE :	Experimental Study on Performance of a Solar Thermal-Driven Vapor Absorption System Integrated With Hot Thermal Energy Storage for Milk Chilling
		AUTHOR/S :	Dinesh Kumar Sharma, Dilip Sharma, Ahmed Hamza H Ali
TITLE :	Interrelationship Modeling among Weld Strength Improvement by Parametric Approach in TIG Welding using DEMATEL Software.	JOURNAL :	ASME Journal of Solar Energy Engineering, (2023), Vol. 146 pp. 31011.
AUTHOR/S :	Devesh Tiwadi, Brij Mohan Sharma, Praveen Saraswat, Sandeep Kumar Bhaskar		
JOURNAL :	EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, (2023), Vol. 10 pp. 2564-2569.	TITLE :	Effect of Coil and Pitch Variation on Performance of Wire Coil Insert in Tubes
		AUTHOR/S :	Praveen Saraswat, Pardeep Kumar, Manoj Kumar Sain, Naveen Kumar Sain, Dinesh Kumar Sharma
TITLE :	Artificial Intelligence as Key Enabler for Sustainable Maintenance in the Manufacturing Industry: Scope & Challenges.	JOURNAL :	SKIT Research Journal, (2023), Vol. 13 pp. 60-64.
AUTHOR/S :	Praveen Saraswat, Rajeev Agrawal		
JOURNAL :	EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, (2023), Vol. 10 pp. 2564-2569.	TITLE :	Overall Heat Transfer Analysis of Shell & Tube Heat Exchanger using CFD
		AUTHOR/S :	Abhay Raj, Ashish Nayyar, Arun Beniwal
TITLE :	Experimental Investigation on the Mechanical and Abrasive Properties of	JOURNAL :	SKIT Research Journal, (2023), Vol. 13 pp. 54-59.

TITLE : Bibliometric Analysis, Physical Properties, and Experimental Evaluation of Additives Diesel Ternary Blends

AUTHOR/S : Chandan Kumar, Mukesh Kumar, Umesh Kumar Das, Sumit Sharma

JOURNAL : Environmental Science and Pollution Research, (2023).

TITLE : Feasibility Evaluation and Numerical Simulation of Diesel– Diethyl Ether–2 –Methoxy Ethyl Ether Blends Fueling in Stationary CI Engine

AUTHOR/S : Chandan Kumar, Mukesh Kumar, Umesh Kumar Das, Sumit Sharma

JOURNAL : IOP Conf. Series: Earth and Environmental Science, (2023).

TITLE : Key Challenges of Sustainability Index Development for Urban Transport System of Jaipur City

AUTHOR/S : Chandan Kumar, Akshay Jhingran, Deepak Mathur

JOURNAL : EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, vol 10; pp. 2583–89(2023).

TITLE : Techno-Economic Analysis of Insulating Bricks used in Educational Building Made by Local Available Agricultural Waste

AUTHOR/S : Chandan Kumar, Divyanshi Sharma, Vinod Kumar Modi

JOURNAL : EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, vol 10; pp. 2583–89 (2023).

TITLE : Optimization in Flexural and Physical Behavior of Agricultural Waste Reinforced Epoxy Based Polymer Matrix Composite by Taguchi Technique

AUTHOR/S : Raj Kumar, Kedar Narayan Bairwa, and Trivendra Kumar Sharma

JOURNAL : EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, vol 10; pp. 2607–2613 (2023).

TITLE : Optimizing Al6061-Based Hybrid Metal Matrix Composites: Unveiling Microstructural Transformations and Enhancing Mechanical Properties Through Ni and Cr Reinforcements

AUTHOR/S : Raj Kumar, Kedar Narayan Bairwa.

JOURNAL : EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, vol 10; pp. 2161–2172 (2023).

TITLE : Energy Security Scenarios for India Under Diversified Demand and Supply

AUTHOR/S : Amit Jhalani, Ankit Agarwal, Digambar Singh, Sumit Sharma.

JOURNAL : EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, vol 10; pp. 2683–89 (2023).

TITLE : Design and Fabrication of a Portable Vertical Axis Wind Turbine for Sustainable Off-Grid Power Generation

AUTHOR/S : Pramod Jain, Saurabh Gupta, Prem Singh, Manoj Kumar Saini, Jancy C Joshwa, Jalaj Prakash Gupta, Kaelin

JOURNAL : SKIT Research Journal, Vol. 13; pp. 83–92 (2023).

DEPARTMENT OF ELECTRONICS & COMMUNICATION

TITLE : Design of Microstrip Antenna Phased Array with Dual Beam at 5G Frequency with large Bandwidth

AUTHOR/S : Harshal Nigam, Monika Mathur

JOURNAL : Journal of Tianjin University Science and Technology, Vol. 57, Issue 2, Pg No. 398–418 (2024)

TITLE : An Optimized Hybrid Nanostructure for Tunable Radiation and Filter Characteristics in Optical Circuits

AUTHOR/S : V Kanungo, R Zafar, PK Jain, V Janyani

JOURNAL : Journal of Optics, 1–22

TITLE : Design and Analysis of Multiplie Beams Phased Array Microstrip Antenna for 5G Applications

AUTHOR/S : Monika Mathur, Harshal Nigam

JOURNAL : Engineering Research Express, IOP Publishing Ltd, 2631–8695, 35011, ESCI

TITLE : Review on Terahertz Technology in Head and Neck Diseases: Advancement & Challenges

AUTHOR/S : Shubhi Jain

JOURNAL : SKIT Research Journal, Vol. 13; Issue 2 (2023) pp. 30–3



DEPARTMENT OF ELECTRICAL ENGINEERING

TITLE : Robust Multi-Machine Power System Stabilizer Design using Bio-Inspired Optimization Techniques and their Comparison
AUTHOR/S : D. Chitara, Prateek K. Singhal, S. L. Surana, G. Sharma, and R. C. Bansal
JOURNAL : International Journal of Electrical Power and Energy Systems, Vol. 155; (2024)

TITLE : Density based Traffic Signal Control using Arduino and IR Sensors
AUTHOR/S : V. Sharma, S. Dhakad, S. Meena, S. Singh
JOURNAL : International Research Journal of Modernization in Engineering Technology and Science (Volume:06/Issue:04)

DEPARTMENT OF CIVIL ENGINEERING

TITLE : Innovative Concrete Composites: Assessing Mechanical Strength with Fly Ash, Glass, and Granite Waste Incorporation
AUTHOR/S : Kishan Lal Jain
JOURNAL : International Journal of Construction Engineering and Planning, Vol. 9, Issue 02, pp. 37-45, 2023

TITLE : Sustainable use of Solid Waste as Additives in Soil Stabilization: A State-of-Art Review
AUTHOR/S : Nishant Sachdeva
JOURNAL : EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Kyushu University, Japan, Vol. 10, Issue 04, pp. 2536-2558, December 2023

TITLE : Assessment of Under Ground Water Resources through RS and GIS Techniques
AUTHOR/S : Pooja Gupta
JOURNAL : IOP Conference Series: Earth and Environmental Science, IOP Publishing, Vol. 1279, December 2023

TITLE : Performance Evaluation of Self-Compacting Concrete Containing Ceramic Waste Tile Fine Aggregate in Aggressive Environments

AUTHOR/S : Abhishek Jain
JOURNAL : Iranian Journal of Science and Technology, Transactions of Civil Engineering, Springer

TITLE : Viability of Dolomite Mine Overburden in Modified Grout Mix for Sustainable Ground Improvement

AUTHOR/S : Nishant Sachdeva
JOURNAL : Indian Geotechnical Journal, Springer

DEPARTMENT OF MANAGEMENT STUDIES

TITLE : Energy Tourism: New Tourism Niche Towards Sustainability
AUTHOR/S : Atul Gupta
JOURNAL : Empirical Economic Letters, ABDC (November, 2023)

DEPARTMENT OF ENGLISH

TITLE : The Analysis of Munro's Themes in Her Short Stories".
AUTHOR/S : Geetika Patni
JOURNAL : SKIT Research Journal, 2023

TITLE : Salman Rushdie and Diasporic Literature: Exploring Multicultural Identity Crisis in the Context of 'Imaginary Homelands'
AUTHOR/S : Geetika Patni
JOURNAL : International Journal of Research Publication and Reviews, February, 2023

DEPARTMENT OF PHYSICS

TITLE : Numerical Simulation for MHD Flow of Powell Eyring Nanofluid with Heterogeneous-Homogeneous Reactions, Arrhenius Energy over a Variable Thickness Stretching Surface
AUTHOR/S : Pawan Kumar Jain
JOURNAL : International Journal for Computational

Methods in Engineering Science and Mechanics, Volume 25, Issue 3, pp 124-136 (2024)

TITLE : Cattaneo-Christov Heat and Mass Model for Radiative EMHD Aluminum Alloys (7072/7072+7075T6) with Transformer Base Oil Hybrid Nanofluid over an Exponentially Stretching Sheet

AUTHOR/S : Pawan Kumar Jain

JOURNAL : BioNano Science (Feb. 2024)

DEPARTMENT OF MATHEMATICS

TITLE : Solving Trapezoidal Fuzzy Linear Programming Problem using Modified Big M

AUTHOR/S : Surbhi Sharma, Jyoti Arora

JOURNAL : Journal of Applied Mathematics and Statistical Analysis

TITLE : Jeffery Slip Fluid Flow with the Magnetic Dipole Effect over a Melting or Permeable linearly stretching Sheet.

AUTHOR/S : Amit Dadheech

JOURNAL : International journal of applied and computational mathematics.

TITLE : Chaotic Inflation in Bianchi Type V Space Time with Constant Deceleration Parameter and Barotropic Perfect Fluid Distribution in General Relativity

AUTHOR/S : Pramila Kumawat

JOURNAL : Journal of Rajasthan Academy of Physical Sciences.

TITLE : Multiple E-K Integral of I- functions Pertaining to Srivastava Polynomials

AUTHOR/S : Nawal.Kishore Jangid

JOURNAL : An International Journal of Engineering, Science, Humanities and Management

TITLE : Cattaneo-Christov Heat and Mass Model for Radiative EMHD Aluminum Alloys (7072/7072+ 7075 T6) with Transformer Base Oil Hybrid Nanofluid Overan Exponentially Stretching Sheet

AUTHOR/S : Sumit Gupta, Chandra Prakash Jain

JOURNAL : BioNanoscience (Springer)

TITLE : Numerical Simulation for MHD Flow of Powell Eyring Nanofluid with

Heterogeneous- Homogenous Reactions, Arrhenius Energy over a Variable Thickness Stretching Surface

AUTHOR/S : Sumit Gupta, Chandra Prakash Jain, Nawal Kishor Jangid, Vijay Kumar Singhal

JOURNAL : International Journal for Computational Methods in Engineering Science and Mechanics, Taylor and Francis

TITLE : A Reliable Algorithm for A Class of Singular Nonlinear Two-Point Boundary Value Problems arising in Physiology

AUTHOR/S : Sumit Gupta

JOURNAL : International Journal of Modeling, Simulation, and Scientific Computing

DEPARTMENT OF CHEMISTRY

TITLE : Use of nanomaterials for Purification of Drinking Water: A Review

AUTHOR/S : Swati Joshi, Poonam Ojha

JOURNAL : SKIT Research Journal, Vol. 13; Issue 2 (2023) pp. 98–102

TITLE : Ecofriendly Nanomaterials for Water Remediation: A Review

AUTHOR/S : Swati Joshi, Poonam Ojha, Sharda Soni, Archana Saxena, Sangeeta Vyas, Vinita Sharma and Anurag Sharma

JOURNAL : Ecology, Environment and Conservation, Vol. 30; Issue Feb. Suppl issue (2024) pp. S8-S12

TITLE : Human Health Risks to the use of Chemical Mosquito Repellants: A Review

AUTHOR/S : Vinita Sharma, Anurag Sharma, Swati Joshi, Poonam Ojha, Sharda Soni, Archana Saxena and Sangeeta Vyas

JOURNAL : International Journal of Mosquito Research, Vol. 11; Issue 1 (2024) pp. 161-167



Future of Technology: The Chat GPT

Do you know that Facebook has taken 3.5 years to reach 1 million users, Google has taken 1.5 years to reach 1 million users and it's a amazing fact that ChatGPT has taken only 5 days to reach 1 million subscribers. What is Chat GPT? How it works? Will it be the future for next AI Generation?

ChatGPT is a revolutionary new type of conversational AI technology that has the potential to revolutionize the way we interact with machines. It is a deep learning-based system that uses Natural Language Processing (NLP) to understand and respond to user input. Unlike other AI-based chatbots, ChatGPT is able to generate meaningful conversations without relying on pre-programmed responses.

ChatGPT is based on the GPT-3 (Generative Pre-trained Transformer 3) model that has been trained on a massive amount of text data. This data includes books, articles, and other sources of Natural Language. The model generates text that is similar to the text it has been trained on, and this is what makes it so powerful. For example, if a user asks a question about a particular topic, the ChatGPT system can generate a response that is related to the topic and is relevant to the user's question.

The potential applications of ChatGPT are vast. It can write an application to your boss without any grammatical and spelling error; it can also write personalize poem for your loved one; it can be used to create virtual assistants that can answer customer service inquiries, provide personalized recommendations, and even provide personalized advice. Additionally, ChatGPT can be used to create virtual agents that can interact with users in a more natural and engaging way.

ChatGPT is also valuable because it can help to improve customer service. It can be used to provide automated customer service, respond to customer inquiries, and provide personalized customer experiences. By providing automated customer service, businesses can reduce customer service costs and improve customer satisfaction. Additionally, ChatGPT can be used to help with sales and marketing activities, such as lead generation and customer segmentation.

While this technology has the potential to be used in positive ways, such as providing personalized customer service, it also has the potential to have a negative impact on society. One of the main concerns with ChatGPT is that it can be used to spread false information and manipulate people. For example, malicious actors may use ChatGPT to create fake accounts and spread false information to influence public opinion which can have a damaging effect on society.

Overall, ChatGPT has the potential to be used in both positive and negative ways. It is important to be aware of the potential risks and the measures required to be taken to safeguard ourselves

Mrs. Abha Jain
Assistant Professor
Dept. of CSE

बचपन

पैसा, प्यार, चीजें, परिवार,
अपने, पराये, ये पूरा संसार,
कोई नहीं दे पाया वो खुशी,
जो बचपन चुरा कर ले गया है।

परवाह है, जिम्मेदारी है,
सब निभाने की, अब मेरी बारी है।
इन सबके बीच खो गया है, वो सपना,
जो बचपन चुरा कर ले गया है।

साथ में अब लोग कम है,
लगता है जैसे तन्हा हम है।
कोई नहीं लौटा सकता वो बिछड़े प्यार,
जो बचपन चुरा कर ले गया है।

कहने को तो सब सही है,
फिर भी ना जाने क्यों सुकून नहीं है।
शायद खो गये हैं कुछ लम्हे खास,
जो बचपन चुरा कर ले गया है।

लिखने को यूँ तो हजारों किस्से है,
थोड़ा दुःख तो सबके हिस्से है।
पर कोई नहीं लिख सकता अब वो एहसास,
जो बचपन चुरा कर ले गया है।

किताबें कलम, सब पास है,
मन में भी छुपी, कहीं कोई आस है।
पर शब्दों में कैसे बयां हो वो यादें,
जो बचपन चुरा कर ले गया है।

Komal Kanwar Korawat, CE, IV Year

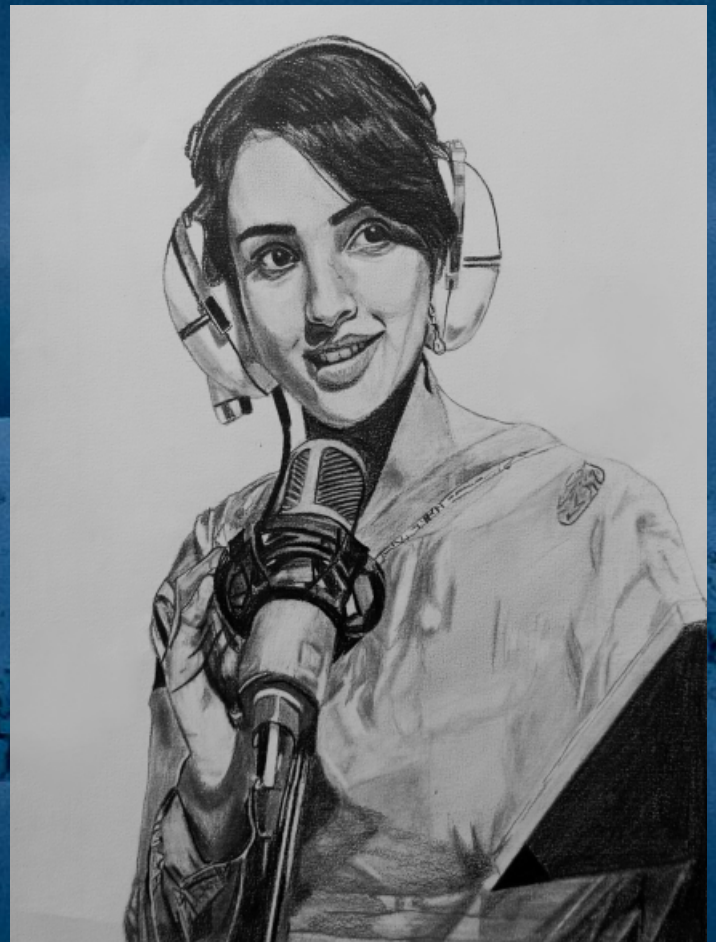
ध्यान रखो तुम वक्त बचाने का, नहीं समय है अभी इसे गंवाने का।
इधर की बात उधर करने की छोड़ो और वक्त लगाओ निज भविष्य बनाने में ,

होना था जो हो गया गुजरना था जो गुजर गया ,
बीत गई अब काली अंधियारी रात सुबह का सूरज खिल गया।
चूक हुई जो पहले तुम से समय नहीं अब पछताने का,
चूक का सबक याद रखो और वक्त लगाओ निज भविष्य बनाने में।

नायाब हीरा बनाया खूब ने हम सबको पर नहीं चमकाया हर किसी को ,
चमका तो सिर्फ वही हीरा चमका जो तराशने की हद से नहीं भटका।
समय नहीं है हाथ पर हाथ धरे बैठे इंतजार करने का,
तुम कोशिश तो करो और वक्त लगाओ निज भविष्य बनाने में।

तट पर बैठे-बैठे तेरे हाथ क्या आएगा,
रतन मिलेंगे तुझको जब सागर की तह में जाएगा।
बिना परिश्रम क्या होगा जागती आंखों से देखे उम्मीदों के सपनों का,
चल, उठ, जाग और पग बढ़ा व जुनून पैदा कर अपने भविष्य बनाने का,
ध्यान रखो तुम वक्त बचाने का नहीं समय है अभी इसे गंवाने का।

Prashant Jethwani, CSE, V Sem



Lakshay Pareek, CSE, II Sem

POEMS

DRAIN

*He thinks I'm a waterfall,
but I'm just a faucet
someone forgot
to turn off.*

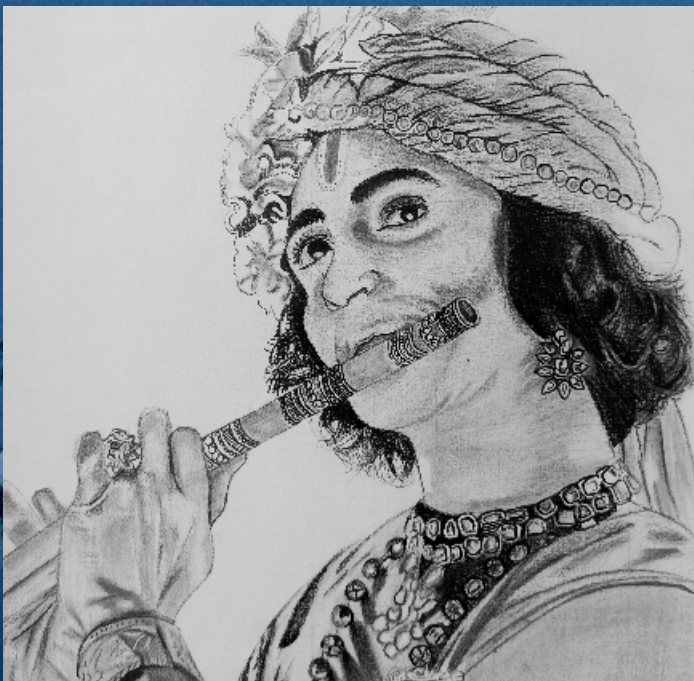
*I don't flow,
I just pour.*

*You wanted part of me?
You have all of me.
I don't know any other way.*

*I wanted all of you
and I have none of you.*

*My fault, my fault –
I thought you were a reservoir
but you were just
a drain.*

Nikhil Garg, CE, III Year



Lakshay Pareek, CSE, II Sem

Mother and Child

The poem, describes a pure and strong bond between a mother and a child. The connection between a mother and child is very deep. It extends beyond the physical connection in the womb to a real spiritual kind of connection. This relationship, like the other worldly relationships is not fragile or weak. Both the individuals share a great symbiotic, magical bond with each other. Each gives a meaning to the life of other. Even though they exist as different physical entities yet they remain connected and comfort each other's soul in a magical way.



*Love no doubt conquers all;
But this bond of love is rare
And special of its kind-
Existing as separate entities
But still inseparable-
Like both the facets of a coin,
Connected and steadfast,
Without any breach,
Of trust or connection ever*

*The severed cord remains connected,
Extending beyond the world of womb,
Without a validity of time period or ages
Where each one adds a colorful stroke,
To the plain canvas of other's life,
With an unassigned and selfless task,
Of true love and healing
Where each one stands as a persistent,
Strength, support and hope for the other.*

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