

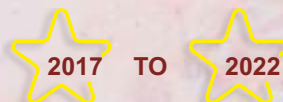


SWAMI KESHVANAND INSTITUTE OF  
TECHNOLOGY, MANAGEMENT & GRAMOTHAN

शारदीय अंक - 55



BY  
RAJASTHAN TECHNICAL  
UNIVERSITY (RTU), KOTA



CONSECUTIVELY FOR 6th YEAR

THE

SKIT  
TIMES

2024



<https://www.skit.ac.in/student-corner/skit-times.html>





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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 WAY TO HAPPINESS

So much has been written about happiness that it seems almost impossible to offer a fresh perspective. Typically, we encounter the same ideas being reiterated. These ideas predominantly align with one of the two philosophies. One emphasizes living in the present and being mindful of the immediate moment, as it is believed that true happiness is found in the now. The other philosophy suggests that happiness is derived from pursuing meaningful goals, as humans are naturally inclined to continually better themselves. According to this view, happiness involves creating a positive future for oneself.

The question then arises: which approach to choose, the present or the future? Dr. Tal Ben-Shahar, a prominent psychology writer and lecturer, proposes a solution that involves integrating both. In his book *Happier*, Ben-Shahar identifies four attitudes to life:

1. **The Hedonic Approach:** This approach is characterized by seeking immediate pleasure, often at the expense of future well-being. While it may provide instant gratification, it can lead to neglecting the bigger picture of life.
2. **The Nihilist Approach:** Nihilism is often associated with individuals who are depressed and view life as lacking meaning. They struggle to find joy in the present and have little hope for the future.
3. **The Rat Race Approach:** Those who adopt this approach become consumed by the pursuit of future success, often sacrificing present happiness. Their focus on goals can lead to a perpetual postponement of joy.
4. **The Positive Approach:** Individuals with this approach find enjoyment in the present while also considering how their current actions contribute to a better future. They strike a balance between immediate gratification and pursuing long-term, meaningful objectives.

Ben-Shahar acknowledges that most people exhibit a blend of these four approaches, exhibiting different attitudes towards life at different times. However, those who can balance the desire for immediate happiness with a thoughtful plan for the future tend to be the happiest. Therefore, the key is to live as if there's no tomorrow while keeping in mind that tomorrow is likely to arrive.

Dr. Anupriya Singh,  
EDITOR-IN-CHIEF





## ~ COVER STORY ~

**“LIFE ISN'T ABOUT FINDING YOURSELF. LIFE IS ABOUT CREATING YOURSELF”**

*-George Bernard Shaw*

The Dynamic Club of SKIT is dedicated to nurturing students for the professional sphere through a multifaceted approach. Primarily, it fosters an intellectual and psychological growth by exhorting students to confront diverse challenges and engage in competitions. These endeavors serve to expand their cognitive horizons while instilling a resilient and adaptable mindset. Through such experiences, students learn to confront both victory and defeat with equanimity, thereby fortifying their confidence and resilience. Exposure to competitive environment through online quizzes like Janajatiya Diwas Quiz, International Legal Day Quiz, Mental Health Day, and Marine Day quiz equips them with the knowledge and with the capacity to handle pressure that students face during various entrance examinations.

The club serves as a gateway for aspiring professionals, facilitating their integration into professional organizations and workplaces. This is achieved through initiatives like the 'Coding Bootcamp' and 'C++' in one shot which equip students with the latest skill sets required for professional success.

Additionally, the club helps students in crafting a roadmap towards coveted career destinations such as Google through expert-led sessions like "Google Job Roadmap." These sessions enriched with insights and success narratives offer invaluable guidance directing students towards areas of focus and optimization in their pursuits.

Furthermore, emphasis is placed on holistic personality development through events like debate competitions and Jamming sessions. These platforms are instrumental in honing verbal and non-verbal communication skills- the indispensable facets for success and recognition in both personal and professional realms.

In essence, the Dynamic Club of SKIT endeavors to sculpt well-rounded professionals equipped with intellectual prowess, resilience, and interpersonal finesse required for navigating the dynamic landscape of the professional world.

**Dr. Shipra Malik**

Associate Professor

## BLOOD DONATION CAMP ORGANIZED

SKIT organized the 21st mega blood donation camp in association with HDFC Bank and Lions Club International on 26 October, 2023. SMS Hospital, Jaipuria Hospital, SDMH, and Swasthya Kalyan Blood Bank participated in the camp. The inaugural ceremony of the Blood Donation Camp was graced by the presence of Shri Surja Ram Meel, Chairman, SKIT; Shri Jaipal Meel, Director, SKIT; Prof. Ramesh Kumar Pachar, Principal, SKIT; Mr. Ashish Rathi from HDFC Bank; Mr. Kalyan Singh & Ms. Shalini Mathur from Lions Club; Mr. Viren Karadia, Mr. O.P. Gaggar, Mr. Nemi Patni and Mr. Govind Sharma from Jaipur Metro. About 843 students of the college donated blood in the camp. Prof. Brajraj Sharma, HOD, Dept. of Physics was the convenor of the Blood Donation Camp.



GLIMPSE OF THE CAMP

## INDEPENDENCE DAY CELEBRATED

SKIT celebrated the 75th Independence Day of India with full vigour and fervour on 15 August, 2023 in the front lawns of the Civil Block. Prof. S.L. Surana, Director, Academics; Prof. Ramesh Kumar Pachar, Principal; Shri Surja Ram Meel, Chairman; Shri

Jaipal Meel, Director; Ms. Rachna Meel, Registrar; Shri Anil Bafna, Vice-Chairman and Prof. R.K.Jain, Dean Academics graced the occasion with their benign presence. Students with their mesmerizing performances kindled the patriotic feelings. Shri Anil Bafna addressed the students and encouraged them to work for nation-building.



GLIMPSE OF THE CELEBRATION

## 'AAGAZ' : ORIENTATION PROGRAM FOR B.TECH FIRST-YEAR ORGANIZED

SKIT conducted the Orientation Session, 'Aagaz-2023' for B.Tech first-year students on 1 September, 2023. Shri Surja Ram Meel, Chairman, SKIT, welcomed all the dignitaries and addressed the students and their parents. Shri Pratap Singh Lohra, Retd. Hon. Justice & Lokayukta, Rajasthan was the Chief Guest. In his address, he motivated the students by talking about his own hardships and challenges. Shri Bhagwan Sharda, Retd. Hon. Dist. & Session Judge; Mr. Sanjay Jhanwar (CA), Ms. Arti Dogra (IAS), and Mr. Riju Jacob, Secretary, RSRTC, Jaipur were invited as Guests of Honor. The program was organized with an objective to introduce the students to the academic tradition, ethos, and academic culture of the college.



GLIMPSE OF THE ORIENTATION PROGRAMME



# ECA CELL ACTIVITIES

## EVENTS CONDUCTED BY ECOFRIENDS CLUB

### EVENT 1: SELFIE WITH NATURE

An event 'Selfie with Nature' was organised on 28 September, 2023. The students were asked to take their selfies at natural places so as to capture the joy and happiness while being with the nature at that place. 29 students participated in the event.



### EVENT 2: QUIZ COMPETITION ON SAFE HYGIENE PRACTICE

To celebrate 'Swachhata Pakhwada' as a part of special 'Campaign 3.0' organized by AICTE, a quiz competition was conducted by the club on 'Safe Hygiene Practices' on 25 October, 2023. 65 students participated in the competition.

## DANCE COMPETITION 'MAYUKH' ORGANIZED

The Music club organized a dance competition 'Mayukh' on 25 October, 2023. It was divided into three captivating categories - solo, duet, and group performances. The event truly celebrated the rich heritage of dance while embracing modern innovation leaving everyone inspired and enthralled. The faculty coordinators were Mrs. Nikhar Bhatnagar (IT) and Mr. Deepak Saini (EE). The student coordinators were Tisha Gupta (AI - IV Year) and Riya Parakh (IT - III Year).



## POSTER MAKING COMPETITION ORGANIZED

Maths n Rates club organised 'Poster Making' competition on 18 October, 2023. Various types of Mathematics posters based on title, reality, theme were made by the students with an objective to devise new ways to make the learning of Mathematics easy. It aimed to determine and develop the feasibility and effectiveness of Mathematical learning with ease.



## EVENTS CONDUCTED BY SKIT READERS' CLUB

### EVENT 1: 'ROO-B-ROO- A LITERARY SOIREE': SKIT READERS' CLUB'S BOOK READING EVENT

An enlightening talk show event on the book 'Lily's Journey' was organized by the SKIT Readers' Club on 20 September, 2023. Mannat Gothwal (CS 3rd year) and Mahi Shrivastav (CS 2nd year) took the centre stage as the speaker and moderator respectively. The event was not only a platform for literary exploration but also a celebration of the love for reading and intellectual exchange. The Q&A session that followed provided the audience with an opportunity to voice their thoughts, share their perspectives.



### EVENT 2: 'ROO-B-ROO- A LITERARY SOIREE': SKIT READERS' CLUB'S BOOK READING EVENT

A remarkable book reading event on the book 'The Real Meaning' was organized by the SKIT Readers' Club on 21 October, 2023. Pulkit (IT, 2nd year) took the centre stage as the speaker while Kanishk (IT, 2nd year) was the moderator of the session.

The event serves as a reminder of the profound impact that literature can have in our lives, and is a tribute to the power of storytelling.

## EVENTS CONDUCTED BY UNIVERSAL HUMAN VALUES & ETHICS COMMITTEE

### EVENT 1: WORKSHOP ON 'EXPLORING UNIVERSAL HUMAN VALUES'

A one week workshop on 'Exploring Universal Human Values & Ethics' was organized from 18 to 23 October, 2023 with an objective to instill a sense of universal human values, such as, empathy, compassion, and integrity.

The workshop was graced by an array of accomplished guest speakers who shared their valuable insights on universal human values. Notable personalities included - Mr. Jaswant Khatri, Senior Engineer from the PHED Department, who highlighted the importance of integrity and ethical conduct in professional life; Mr. Pawan Kumar, a distinguished social activist and author, who discussed the role of empathy and compassion in driving positive change in society; Mr. BK Sharma, a representative from AICTE, who emphasized the significance of universal human values in the education sector and its impact on shaping future generations and Prabhu Girdhari Ji, a spiritual guide from the Hare Krishna Temple, who shared wisdom on inner values and personal transformation. About 150 students participated in the workshop. Dr. Nidhi Sharma, Dr. Amit Jhalani, and Dr. Swati Arora were the faculty coordinators of the event.



GLIMPSE OF THE EVENT

### EVENT 2: GANDHI JAYANTI CELEBRATED

The birth anniversary of Mahatma Gandhi was celebrated with great fervour and reverence on 2 October, 2023. The program featured a range of activities and presentations that celebrated Gandhi Ji's life and legacy. It began with a stirring rendition of Gandhi's favorite hymns followed by screening of live videos from Sabarmati Ashram in Ahmedabad where the official government celebrations were going on. The heart of the program were the speeches and poems that focused on various aspects of Mahatma Gandhi's life and his commitment to non-violence, truth, and social

justice. Speakers from diverse backgrounds shared their perspectives and insights on how Gandhi's principles are still relevant today.

The event was coordinated by Dr. Swati Arora, Dr. Amit Jhalani and Dr Nidhi Sharma.



GLIMPSE OF GANDHI JAYANTI

### EVENT 3: HINDI DIWAS CELEBRATED

Hindi Diwas was celebrated with great fervour on 14 September, 2023. The highlight of the event were the poetry recitals where approximately 50 students showcased their linguistic prowess by presenting the works of renowned Hindi poets. From the poignant verses of Harivansh Rai Bachchan to the profound words of Maithili Sharan Gupt, the audience were treated to a diverse range of poetic expressions. In addition, students also delivered speeches in Hindi emphasizing the significance of the language and its role in India's cultural tapestry. Certificates were given to the winners of the poetry recital and speech competitions.

The event was coordinated Dr. Nidhi Sharma, Dr. Amit Jhalani and Dr. Swati Arora.



GLIMPSE OF THE EVENT

### EVENT 3: JANMASHTAMI CELEBRATED

Janmashtami, the birth anniversary of Lord Krishna, was celebrated with immense devotion and fervour by UHV&EC. The highlight of the occasion was a heart-warming Bhajan Gayan programme led by Prof. Archana Saxena and Prof. Krishna Dayal Sharma. The event was coordinated by Dr. Nidhi Sharma, Dr. Swati Arora and Dr.Amit Jhalani. Approximately 150 students attended the event. The vote of thanks was given by Dr. Nidhi Sharma.



## INTERNATIONAL NFT DAY CELEBRATED

The international NFT Day celebration was organized by CodeFiesta club in collaboration with GirlScript Foundation under the guidance of Ms. Priyanka Sharma, faculty advisor, CodeFiesta Club, SKIT on 20 September, 2023. The objective behind this celebration was to introduce newcomers to NFT and kindle their interest in Web3 technologies. The event was sponsored by Dapper Labs/Flow and was graced by the presence of the distinguished guests, Mr. Pranshu Rastogi, Head of Ecosystem and Integrations at Push Protocol and Ms. Ishita Rastogi, Product Brand Manager at Gelato Network. The programme was concluded with a quiz and subsequent prize distribution. Chirag Gurnani (ECE, 3rd Year) and Akshat Surana (CSE, 4th Year) were the student coordinators of the event.



GLIMPSE OF THE EVENT

Simplicity, carried to  
the extreme,  
becomes elegance.

Computers are good at following instructions,  
but not at reading your mind.

## DEPARTMENTS OF COMPUTER SCIENCE ENGINEERING & INFORMATION TECHNOLOGY

### WORKSHOP ON 'APPLICATIONS OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IoT' ORGANIZED

A student workshop on 'Applications of Artificial Intelligence (AI) and Machine Learning' (ML) in the field of Internet of Things (IoT) was organized from 11 to 15 September, 2023 in collaboration with GeeksforGeeks. Eminent personalities from academia and industry were invited as speakers. Mr. Sandeep Jain, founder of GeeksforGeeks visited the institute and interacted with students. The workshop was coordinated by Dr. Vinay Kanungo, Dr. Yogendra Gupta, Dr. Niketa Sharma, Dr. Amit Sharma, Dr. Meenakshi Nawal, Ms. Nidhi Srivastav and Ms. Priyanka Sharma.



GLIMPSE OF THE EVENT

### WORKSHOP ON 'FUNDAMENTALS OF BLOCKCHAIN AND DATA SECURITY' ORGANIZED

A student workshop on the 'Fundamentals of Blockchain and Data Security' was organized by IEEE Computer Society and MTT-S Student Branch Chapter in collaboration with IEEE Rajasthan Subsection from 3 to 4 November at SKIT, Jaipur. The expert speaker, Kalpit Singh, CEO of Cognome discussed about the applications of Blockchain and the underlying algorithms of cryptocurrencies including Bitcoin through hands-on programming sessions. The second day of the workshop focused on advanced topics enabling students to learn and demonstrate algorithm design. Dr. Nilam Chaudhary, Dr. Shubhi Jain, and Dr. Aakriti Sharma were the faculty coordinators of the event.



## BOOK CHAPTERS PUBLISHED

BOOK	: Social Media and Online Consumer Decision Making in the Fashion Industry
AUTHOR/S	: Kalavathy K. S., Swapna H. R., Anitha Nallasivam, Digvijay Pandey, Darshan Mahajan, Pankaj Dadheech
BOOK CHAPTER	: An Empirical Investigation on the Influence of Social Networks on Purchase Decision Making: An Indian Perspective, Chapter 2, pp. 26-43, 2023.
PUBLISHER	: IGI Global. <a href="https://doi.org/10.4018/978-1-6684-8753-2.ch002">https://doi.org/10.4018/978-1-6684-8753-2.ch002</a> .
BOOK	: Artificial Intelligence Tools and Technologies for Smart Farming and Agriculture Practices
AUTHOR/S	: Priyanka Sharma, Pankaj Dadheech
BOOK CHAPTER	: AI-Enabled Crop Recommendation System based on Soil and Weather Patterns, Chapter 10, pp. 184-199.
PUBLISHER	: IGI Global. <a href="https://doi.org/10.4018/978-1-6684-8516-3.ch010">https://doi.org/10.4018/978-1-6684-8516-3.ch010</a>
BOOK	: Handbook of Research on AI-Equipped IoT Applications in High-Tech Agriculture
AUTHOR/S	: Mariya Vinshon V., A.V. Senthil Kumar, Priyanka Sharma
BOOK CHAPTER	: AI-Equipped IoT Applications in High-Tech Agriculture using Machine Learning, Chapter 3, pp. 38-64.
PUBLISHER	: IGI Global. <a href="https://doi.org/10.4018/978-1-6684-9231-4.ch003">https://doi.org/10.4018/978-1-6684-9231-4.ch003</a> .
BOOK	: Effective AI, Blockchain, and E-Governance Applications for Knowledge Discovery and Management
AUTHOR/S	: Kawsalya Maharajan, Priyanka Sharma
BOOK CHAPTER	: Blockchain Methods and Data-driven Decision Making with Autonomous Transportation, Chapter 12, (pp. 176-194).
PUBLISHER	: IGI Global. <a href="https://doi.org/10.4018/978-1-6684-9151-5.ch012">https://doi.org/10.4018/978-1-6684-9151-5.ch012</a>
BOOK	: Handbook of Artificial and Human Intelligence in the Modern Era
AUTHOR/S	: Arun Prasad G, A. V. Senthil Kumar, Priyanka Sharma, Indrarani Dyah Irawati
BOOK CHAPTER	: Artificial Intelligence in Computer Science: An Overview of Current Trends and Future Directions, Chapter 2 pp 43-60.
PUBLISHER	: IGI Global. <a href="https://doi.org/10.4018/979-8-3693-1301-5.ch002">https://doi.org/10.4018/979-8-3693-1301-5.ch002</a> .

BOOK	: Medical Data Analysis and Processing using Explainable Artificial Intelligence
AUTHOR/S	: Priyanka Sharma
BOOK CHAPTER	: Utilizing Explainable Artificial Intelligence to Address Deep Learning in Biomedical Domain, Chapter 2, pp 19-38.
PUBLISHER	: Taylor & Francis, <a href="https://doi.org/10.1201/9781003257721-2">https://doi.org/10.1201/9781003257721-2</a>

## PAPER PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE	: Comprehensive Study on High Resolution Aerial Image Classification to Highlight Issues, potential Application, and Future Scope
AUTHOR/S	: Nikhar Bhatnagar, Sumit Srivastava, Shally Vats
CONFERENCE	: IEEE Global Conference for Advancement in Technology (GCAT), Bangalore, India; 6 to 8 October, 2023. 979-8-3503-0525

## PAPERS PRESENTED IN CONFERENCES

TITLE	: Machine Learning-based Stock Market Forecasting using Recurrent Neural Network
AUTHOR/S	: Priyanka Sharma, Chirag Sharma, Pramod Mathur
CONFERENCE	: IEEE International Conference on Smart Computing and Communications (ICSCC 2023), Muthoot Institute of Technology and Science, Kochi; 17 to 19 August, 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
CONFERENCE	: International Conference on New and Renewable Energy Resources for Sustainable Future; 2 to 4 November, 2023

## FDPs ATTENDED

TITLE	: Building Advanced Data Analytics Applications with Cloud
DATE	: 11 to 15 September, 2023
ATTENDED BY	: Pankaj Dadheech
ORGANIZED BY	: Edunet Foundation and EY GDS (Ernst & Young) in partnership with AICTE-TLB
TITLE	: Data Science & Artificial Intelligence for Various Engineering Applications



DATE : 21 to 25 August, 2023  
ATTENDED BY : Pankaj Dadheech, Naveen Jain  
ORGANIZED BY : Arya College of Engineering and IT, Jaipur

Awarded Elite Certificate, 2%  
Topper

TITLE : Unleashing Emerging Research Trends and  
Advancements in Computer Science  
DATE : 1 to 5 August, 2023  
ATTENDED BY : Pankaj Dadheech, Nidhi Srivastava, Naveen Jain  
ORGANIZED BY : Department of Computer Engineering &  
Advance Computing in association with  
ACM, Poornima College of Engineering, Jaipur

COURSE/ TOPIC : Introduction to Machine Learning  
COMPLETED BY : Sunita Gupta  
DURATION & CATEGORY : July to October (8-week).  
Awarded Elite Certificate, 5%  
Topper

## SESSION CHAIRED

TITLE : Enhancing Research Impact: Grant Writing,  
IPR and Publication Strategies  
DATE : 31 July to 5 August, 2023  
ATTENDED BY : Priyanka Sharma  
ORGANIZED BY : School of Technology, Management &  
Engineering NMIMS Indore

SESSION ON : International Convention on Green  
Environment, Technology & Entrepreneurship  
through Innovation (ICGETEI-2023)  
CHAIRER BY : Pankaj Dadheech  
DATE & VENUE : 9 to 11 August, 2023 at Amity University, Jaipur

TITLE : Contemporary & Innovative Teaching  
Pedagogy and Essential Skills for Educators  
DATE : 24 to 31 July, 2023  
ATTENDED BY : Nidhi Srivastav  
ORGANIZED BY : Maharishi University of Information  
Technology, Lucknow

## EXPERT TALK DELIVERED

TITLE : Cloud Infrastructure (AWS)  
DATE : 21 to 25 August, 2023  
ATTENDED BY : Nikhar Bhatnagar  
ORGANIZED BY : Department of CSE, GMR Institute of  
Technology, Rajam, Andhra Pradesh.

TITLE : Reinforcement Learning: Problems and  
Solutions  
DATE & VENUE : International Workshop on 'Reinforcement  
Learning', 14 October, 2023 facilitated by  
World Resources Webinar, World Economic  
Forum  
DELIVERED BY : Pankaj Dadheech

TITLE : Open Source Tools for Research  
DATE : 15 to 19 May, 2023  
ATTENDED BY : Nikhar Bhatnagar  
ORGANIZED BY : Manipal University, Jaipur in association with  
NITTR, Chandigarh

## Ph.D. AWARDED

THESIS TITLE : Design And Analysis of Security  
Assurance of Docker Containers over  
Cloud Computing  
Ph.D. AWARDED TO : Aakriti Sharma  
SUPERVISED BY : Dr. Sandhya Sharma  
INSTITUTE : Suresh Gyan Vihar University, Jagatpura,  
Jaipur

## TEACHER-IN-SERVICE-PROGRAMME (TISP) ATTENDED

TITLE : Application of IoT in Industrial Automation  
DATE : 7 October, 2023  
ATTENDED BY : Pankaj Dadheech  
ORGANIZED BY : IEEE Delhi Section and Poornima College of  
Engineering, Jaipur

THESIS TITLE : Design a Machine Learning Framework for  
the Sentiment based Specific Social Media  
Text Classification  
Ph.D. AWARDED TO : Kajal Mathur  
SUPERVISED BY : Dr. Pares Jain(Supervisor), Dr. Sunita  
Gupta (Co- Supervisor)  
INSTITUTE : Suresh Gyan Vihar University, Jagatpura,  
Jaipur

## NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : Big Data Computing  
COMPLETED BY : Praveen Kumar Yadav  
DURATION & CATEGORY : July to October (8-week).

THESIS TITLE : Cloud Load Balancing Technique for  
Optimal Resource Utilization  
Ph.D. AWARDED TO : Anjana Sangwan  
SUPERVISED BY : Dr. Bright Keswani  
INSTITUTE : Suresh Gyan Vihar University, Jagatpura,  
Jaipur



**DEPARTMENT OF  
MECHANICAL  
ENGINEERING**

## PRE-CONFERENCE SHORT-TERM TRAINING PROGRAMME ON 'IC ENGINE TESTING AND SIMULATION'

A five-day pre-conference Short-Term Training Programme (STTP) on 'IC Engine Testing and Simulation' was conducted from 10 to 14 October, 2023 in hybrid mode. The inaugural ceremony was graced by the presence of the chief guest, Prof. Dilip Sharma from MNIT, Jaipur. He gave his valuable insights on Diesel RK Software and the Impact of Alternative Fuels on Engine Performance.

The entire event consisted of eight sessions, each throwing light on various facets of IC Engine Testing and Simulation. Dr. Sanjay Patil, General Manager at ARAI; Dr. Chandan Kumar, SKIT; Dr. Anmesh Srivastav, NIT Patna; Dr. Vinod Singh Yadav, NIT, UK; Prof. Ashish Nayyar, SKIT; Dr. K. K. Khatri, LNMIIIT, Jaipur and Prof. Rahul Goyal from Manipal University, Jaipur gave talks on various topics like Significance of Alternative Fuels, Numerically Simulating Experimental Data, Application of Hybridization and Electrification Technologies in Existing Vehicles, Myths and Realities about Alternative Fuels, Concept of Modeling Experimental Data using various Tools, Performance and Emission Characteristics of Dual Fuel Engines using Biogas and Hydrogen, Diverse Methods for Engine Performance and Testing respectively. Practical sessions were also conducted focusing on troubleshooting Simulation Software and addressing real-world problems

This event contributed significantly to the understanding and advancement of IC Engine Testing and Simulation in the context of evolving technologies and alternative fuels.



## TECHFEST ZONAL 'TECHNORIAN-2023' ORGANIZED

Tech Fest Zonal 'Technorion-2023' was organized by the Robotics Club of the Mechanical Department under the aegis of IIT, Bombay on 15 October, 2023. Interesting competitions like Code-Decode, Cosmo-Clench, Mesmerize, as well as Olympiad were held in the Tech Fest. More than 600 participants from various engineering colleges and schools participated in the program. Prof. S.L Surana, Director (Academics) distributed prizes and conveyed his best wishes to the participants. The program was coordinated by Mr. Sudesh Garg and Mr. Brij Mohan Sharma. The competitions were conducted under the supervision of Mr. Praveen Saraswat, Mr. Arun Beniwal and Mr. Pramod Jain.



## EXPERT TALK ON 'STRATEGY TO CRACK GATE & OTHER COMPETITIVE EXAMS' ORGANIZED

An expert talk on 'Strategy to Crack GATE & Other Competitive Exams' was given by Mr. Jitendra Tiwari (Education Expert) on 31 October, 2023. He explained the importance of GATE exam and





discussed about the effective preparation planning for GATE and other competitive examinations. Mr Tiwari highlighted the importance of self-made notes for quick revision and talked about various career opportunities. He also guided the students about different phases of recruitment like written test, GD and interview. Approximately 200 participants attended the session.

## BOOK PUBLISHED

TITLE : Elementary Mechanical Engineering  
AUTHOR/S : Raj Kumar, Kedar Narayan Bairwa, Amit Jhalani  
PUBLISHER : Iterative International Publishers, October, 2023

## PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE : Effect of SiC, Graphite, and Marble Dust on Mechanical Properties of Al6063 Hybrid Metal Matrix Composite  
AUTHOR/S : Prashant Kumar, Dheeraj Joshi , Bhavana Mathur, Vikash Gautam  
PROCEEDING : Proceedings of International Conference on Digitization and Advancements in Materials and Metallurgical Industries, 19 to 20 August, 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  
PROCEEDING : Proceedings of International Conference on Sustainable Energy, Environment and Green Technologies (ICSEEGT-2023), Poornima College of Engineering, Jaipur.

## FDPs ATTENDED

TITLE : R Software  
DATE : 21 to 25 August, 2023.  
ATTENDED BY : Manu Augustine, Amit Kumar Bansal, Achin Srivastav, Raj Kumar, Sandeep Kumar Bhaskar, Monu Gupta, Madhukar Kumar  
ORGANIZED BY : Dept. of Mechanical Engineering, SKIT

TITLE : Recent Trends and Issues in Mechanical Engineering  
DATE : 26 to 30 September, 2023  
ATTENDED BY : Manoj Kumar Sain, Dharmendra Hariyani, Deepak Kumar, Praveen Saraswat, Chandan Kumar, Monika Khurana, Nitin Goyal, Brij Mohan Sharma, Sandeep Kumar Bhaskar, Monu Gupta, Sanjay Bairwa, Namita Soni, Sumita

ORGANIZED BY : Dept. of Mechanical Engineering, SBCET, Jaipur

TITLE : Manufacturing Strategy  
DATE : 26 July to 24 September, 2023  
ATTENDED BY : Dharmendra Hariyani  
ORGANIZED BY : NPTEL, IITR

TITLE : Contemporary & Innovative Teaching Pedagogy and Essential Skills for Educators.  
DATE : 24 to 31 July, 2023  
ATTENDED BY : Achin Srivastav  
ORGANIZED BY : Maharishi University, Information Technology, Lucknow

TITLE : Unleashing Emerging Research Trends and Advancements in Computer Science  
DATE : 1 to 5 August, 2023  
ATTENDED BY : Achin Srivastav, Prem Singh, Sanjay Bairwa, Yogesh Kumar Sharma  
ORGANIZED BY : SKIT, Jaipur

TITLE : Soft Skill Development  
DATE : 26 July to 24 September, 2023  
ATTENDED BY : Nitin Goyal  
ORGANIZED BY : NPTEL, IIT Madras

TITLE : Integrating Autodesk Fusion- 360 in Engineering Subjects  
DATE : 26 June to 1 July, 2023  
ATTENDED BY : Vishnu Jangid, Sanjay Bairwa  
ORGANIZED BY : Lendi Institute of Technology

TITLE : Cloud Infrastructure (Brains-Vision)  
DATE : 21 to 25 August, 2023  
ATTENDED BY : Vishnu Jangid  
ORGANIZED BY : M.O.P. Vaishnav College for Women (Autonomous), Tamil Nadu.

TITLE : Cloud Infrastructure  
DATE : 21 to 25 August, 2023  
ATTENDED BY : Vishnu Jangid  
ORGANIZED BY : Department of CSE, GMR Institute of Technology, Rajam, Andhra Pradesh.

TITLE : Finite Element Methods for Engineering Applications  
DATE : 17 to 21 August, 2023  
ATTENDED BY : Raj Kumar  
ORGANIZED BY : MBM University

TITLE : Cloud Infrastructure and AWS Technologies  
DATE : 21 to 25 August, 2023  
ATTENDED BY : Madhukar Kumar  
ORGANIZED BY : Manipal University

TITLE : Fundamentals of Machine Learning and Deep Learning  
DATE : 25 to 29 September, 2023  
ATTENDED BY : Namita Soni, Sumita  
ORGANIZED BY : NITTTR, Kolkata



## STTPs/ SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE : IC Engine Testing and Simulation  
DATE : 10 to 14 October, 2023  
ATTENDED BY : Ashish Nayyar, Deepak Kumar, Manu Augustine,  
Manoj Kumar Sain, Ankit Kumar Agarwal,  
Praveen Saraswat, Amit Kumar Bansal, Chandan  
Kumar, Vinay Singh Marwal, Achin Srivastav,  
Prem Singh, Monika Khurana, Nitin Goyal,  
Sudesh Garg, Brij Mohan Sharma, Vishnu  
Jangid, Raj Kumar, Sandeep Kumar Bhaskar,  
Monu Gupta, Sumita Hemrom, Sanjay Bairwa,  
Sunil Kumar, Namita Soni, Yogesh Kumar  
Sharma, Madhukar Kumar, Naveen Kumar Sain  
ORGANIZED BY: Dept. of Mechanical Engineering, SKIT, Jaipur.

TITLE : Indian Knowledge System IKS  
DATE : 16 to 21 October, 2023  
ATTENDED BY : Monika Khurana, Amit Kumar Bansal  
ORGANIZED BY: UGC in collaboration with the IKS Division of  
Ministry of Education

## NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : Soft Skill Development  
COMPLETED BY : Nitin Goyal  
DURATION & CATEGORY : July to September, 2023 (8 -week).  
Awarded Elite certificate

## PATENTS PUBLISHED

TITLE : Formulation of Newly Synthesized  
Gomutra in Diesel Emulsion  
NAME : Amit Jhalani, Dilip Sharma, SL Soni  
PATENT FILED DATE : Application No. 202011044179;  
10 October, 2020  
PATENT PUBLISHED DATE : 14 September, 2023

## FACULTY ACHIEVEMENTS

- Mr. Vinay Singh Marwal was invited as judge in SIH 2023 Grand Finale organized at SKIT, Jaipur on 23 September, 2023
- Mr. Amit Jhalani got the 'Eminent Engineer' award by the Institution of Engineers, Rajasthan State Centre, Jaipur on 15 August, 2023. He was also selected as the member of the organizing committee of the program titled 'Contribution of Scientist and Scientific Institutions in Indian Freedom Struggle: Prof. S.N. Bose' organized by The Ministry of Culture and Vigyan Bharati.

The way to succeed is to double your failure rate.

## DEPARTMENT OF ELECTRONICS & COMMUNICATION

### LECTURE SERIES ON 'RECENT TRENDS IN ELECTRONICS AND COMMUNICATION ENGINEERING 3.0' ORGANIZED

A two week lecture series on 'Recent Trends in Electronics and Communication Engineering 3.0' (RTECE 3.0) was organized in collaboration with CEERI (CSIR) from 9 to 20 October, 2023. Mr. Ashok Chauhan, Senior Principal Scientist & Group Head, CEERI and Dr Vijay Chatterjee, Senior Scientist & Head of Skill Development Unit and Technology Business Development Unit, CSIR-CEERI, Jaipur Campus were the Guests of Honor. The first day began with a talk by Dr Vijay Chatterjee on Introduction of Skill Training Programs at CSIR (CEERI). On the second day, Dr. Ing. Ayan Kumar Bandyopadhyay, Senior Principal Scientist, CSIR-CEERI enlightened the participants with an online discussion on '5G Technologies and Beyond'. The other expert speakers - Dr. Rajendra Kumar Verma, Sr. Scientist, CSIR-CEERI and Dr. Sachin Devassy, Principal Scientist, CSIR-CEERI gave their insights on 'Electromagnetic Journey from Wires to Wireless' and 'Power Electronic Application in Renewable Energy Systems' respectively. Mr. Harshal Nigam from SKIT conducted a hands - on practice session on HFSS software including the basic calculation technique used for simulation. Mr. Ajay Dhanopia from SKIT gave an introduction about the institute's Incubation Cell. Mr. Navjot Kumar, Sr. Scientist, CSIR-CEERI gave a lecture on 'Sensor Interfacing and Signal Processing'. Day 7 included a visit to CEERI, Pilani, Jaipur Centre. The last day ended with a hands - on session on 'CST Software for Electromagnetic Simulation' by Dr. Pallav Rawal of SKIT. The event was organized to enlighten the participants with the most widely used advance tools, strategies and techniques being used in the field of Electromagnetics.



## IN HOUSE TRAINING ON 'MICROWAVE /ANTENNA /IoT /EMBEDDED SYSTEM' ORGANIZED

A 45- day in-house internship programme on 'Microwave /Antenna /IoT /Embedded System' was organized with an aim to provide hands-on practice to students on 'HFSS/Proteus & Making of Projects'. The programme which began from 19 July included one and a half hours of theory session followed by 2 hours of hands-on session each day. Dr. Shubhi Jain (Microwave & Antenna), Dr. Suman Sharma (Antenna), Dr. Kiran Rathi (Proteus), Mr. Harshal Nigam (Microwave), Dr. Pallav Rawal (Microwave) and Mr. Dinesh Kumar (IoT) were the expert trainers in the workshop. The workshop was held under the guidance of Dr. Mukesh Arora, Dr. Shubhi Jain and Dr. Suman Sharma.



## EXPERT TALK ON 'BENEFITS OF IEEE MTT-S MEMBERSHIP' ORGANIZED

An expert talk on 'Benefits of IEEE MTT-S Membership' was organized jointly by IEEE MTT-S & IEEE Computer Society on 21 October, 2023 with an objective to spread awareness among the students about IEEE community and MTT-S (Microwave Theory and Technology Society). Dr. Dinesh Yadav from Manipal University was the chief guest of the event. He told the students about the procedure of taking IEEE MTT-S membership, scholarships and other grants. The objective was to make the students more inclined to participate in research and development projects.



## WEBINAR ON 'RF, MICROWAVE SIMULATIONS & DESIGNING' ORGANIZED

A webinar on 'Rf, Microwave Simulations & Designing' was organized from 14 to 18 August, 2023. Theory sessions and hands-on practice sessions on various aspects such as Basics of Designing of Waveguide in the Simulation Software HFSS (High Frequency Structure Simulator), Communication System of the Microwaves, Frequency Bands of Microwaves, Applications of Microwaves (Wireless Communication, Commercial uses, Military and Radar, Food Industry, Medical and Civil Applications), Basics of Designing an Antenna, Types of Antenna (Wire Antenna, Planar Antenna and Aperture Antenna), Applications of different types of Antenna and Fabrication, Process of PCB (Printed Circuit Board) and Antennas were conducted.

The webinar was organised by the IEEE-MTT Student Chapter members- Dr. Shubhi Jain and Mr Harshal Nigam. The student coordinators were Tariq Abdul Ghani & Vishal Sharma.

## INDUSTRY TALK ON 'COMPOUND SEMICONDUCTOR DEVICES AND CIRCUITS FOR 5G & BEYOND' ORGANIZED

An industry talk on 'Compound Semiconductor Devices and Circuits for 5G & Beyond' was organized on 3 September, 2023. Dr. Dinesh Yadav from Manipal University briefed about the IEEE- MTT Student Chapter of the college. Dr. Sandeep Chaturvedi told the students about India's III-V Semiconductor Foundry (production) and also make them aware how IEEE Chapters shape the career of students and can pave their way into research and development. He further briefed the students about RF Energy Harvesting, Wireless Health Care Applications, Biosensing Imaging, Biomedical Sensors, RF Coils and Automotive Applications. The vote of thanks was given by Prof. Dinesh Yadav. The webinar was coordinated by the IEEE-MTT Student Chapter members; Dr. Shubhi Jain and Mr Harshal Nigam.

## EXPERT TALK ON 'HEALTH MANAGEMENT FOR SUCCESSFUL LIFE' ORGANIZED

On the occasion of IEEE Day celebration, an expert talk on 'Health Management for Successful Life' was organized by IEEE Computer Society and MTT-S Student Branch Chapter in collaboration with IEEE Rajasthan Subsection at SKIT on 3 October, 2023. Dr. Pashupati Nath, Director, Padmnabham Ayurveda Hospital and Research Centre, Jaipur talked about different ways to maintain balanced physical and mental health. Various types of yoga postures and lung exercises were explained to the teachers and students. At the end, there was a question-answer session in which the queries of the participants were resolved.

The session was coordinated by Dr. Shubhi Jain and Dr. Neelam



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## GLIMPSE OF THE EXPERT TALK

## PAPERS PRESENTED IN CONFERENCES

TITLE	: A Payment System for Electric Vehicles Charging and Peer to Peer Energy Trading
AUTHOR/S	: Kaushal R. K., Jain Shubhi, Shankar Rao
CONFERENCE	: International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC) (pp. 984 991). IEEE

TITLE	: Smart Wearable Wristband for Patients' Health Monitoring System through IoT
AUTHOR/S	: Shannmukha Naga Raju Vonteddu, Prasanthi Kumari Nunna, Shubhi Jain
CONFERENCE	: International Conference on Power, Energy, Control and Transmission Systems (ICPECTS)

## FDPs ATTENDED

TITLE	: Unleashing Emerging Research Trends and Advancements in Computer Science
DATE	: 1 to 5 August, 2023
ATTENDED BY	: Rajni Idwal
ORGANIZED BY	: Poornima College of Engineering, Jaipur

TITLE	: Contemporary and Innovative Teaching Pedagogy and Essential Skill for Educators
DATE	: 24 July to 31 July, 2023
ATTENDED BY	: Rajni Idwal
ORGANIZED BY	: Maharishi University of Information Technology, Lucknow

TITLE	: Recent Advances, Trends and Challenges in Nanomaterial Characterization and Technique
DATE	: 25 to 29 September, 2023
ATTENDED BY	: Abhinandan Jain, Shubhi Jain, Harshal Nigam
ORGANIZED BY	: Koneru Lakshmaiah Education Foundation, Andhra Pradesh

TITLE	: Building Advance Data Analytics Application with Cloud
DATE	: 11 to 15 September, 2023
ATTENDED BY	: Abhinandan Jain
ORGANIZED BY	: AICTE

TITLE : Satellite Communication : Design Prospectives  
& Applications

DATE : 21 to 26 August, 2023

ATTENDED BY : Shubhi Jain

ORGANIZED BY : Annant Gyan Knowledge and Skills Private  
Limited

TITLE	: Pharmaceutical Innovations & Protection Strategies
DATE	: 18 to 22 July, 2023
ATTENDED BY	: Shubhi Jain
ORGANIZED BY	: CSIR, Bhubneshwar, India

TITLE : "R"  
DATE : 21 to 25 August, 2023  
ATTENDED BY : Harshal Nigam, Rajni Idwal, Neeraj Jain  
ORGANIZED BY : Spoken Tutorial IIT Bombay

## Ph.D. AWARDED

THESIS TITLE : Design and Analysis of MIMO Configured  
Microstrip Patch Antenna for 5G Mid Band  
and High Band Application

Ph.D. AWARDED TO : Suman Sharma  
GUIDED BY : Dr. Mukesh Arora  
INSTITUTE : SKIT, Jaipur  
YEAR : 2023

THESIS TITLE : Theoretical Analysis of Quantum Dot based Photo Detectors

Ph.D. AWARDED TO : Kiran Rathi  
GUIDED BY : Dr. C.M.S. Negi  
INSTITUTE : Banasthali Vidyapith, Jaipur.  
YEAR : 2023

THESIS TITLE : Investigation of Photonic Crystal Structures  
for Refractive Index based Biosensors

Ph.D. AWARDED TO : Ankit Agrawal  
GUIDED BY : Dr. Ghanshyam singh, Dr. S.K.Bhatnagar  
INSTITUTE : MNIT, Jaipur  
YEAR : 2023

## NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : Entrepreneurship and IP Strategy  
COMPLETED BY : Neeraj Jain

COURSE/ TOPIC	: System Design through Verilog
COMPLETED BY	: Mamta Jain
DURATION & CATEGORY	: July to September, 2023 (8 -week). Awarded Elite Certificate

- Ms. Mamta Jain was awarded 'Discipline Star' in Electrical Engineering, July- December, 2023 NPTEL Course. She was also awarded 'Domain Scholar' certificate in VLSI Design, October, 2023
- Dr Monika Mathur has been elected as a Ex comm member, IEI Rajasthan Section Society, 2023
- Mr. Ankit Agrawal was awarded 'Domain Scholar' certificate in Communication and Signal Processing, October 2023. He was also awarded 'Discipline Star' in Electrical Engineering, July-December, 2023 NPTEL Course



Yashi Tibra, CSE, I Sem

A building should be made to last as long as the people who live in it.

# DEPARTMENT OF ELECTRICAL ENGINEERING

An expert lecture on 'Smart Grid and Energy Management System' was organized by the department on 3 November, 2023. Prof. Iqbal Ali from the Dept. of Electrical Engineering, Jamia Millia Islamia (JMI) University, New Delhi gave a thought-provoking lecture explaining about some of the key aspects of Smart Grid, Energy Management Systems (EMS), Renewable Energy Integration, Grid Resilience and Security. The vote of thanks was given by Dr.Sarfaraz Nawaz, Head, EE Department.



A Short Term Training Program for students on 'Applications of Power Converters in Electrical Engineering' (APCEE) was organized





in association with IET Student Chapter of SKIT from 17 to 21 October, 2023. Dr. Sunil Kumar Gupta, Dean R&D, Poornima University Jaipur was invited as the guest speaker at the inaugural ceremony. The event was convened by Dr. Prateek Kumar Singhal and coordinated by Mr. Tarun Naruka, Mr. Vikas Mahala and Mr. Deepak Saini.

## STUDENT INDUSTRIAL TRAINING PROGRAM ORGANIZED

A student Industrial Training Program was organized for the third semester students from 16 to 30 August, 2023 with an objective to enhance their technical skills and to provide them industrial exposure. The program helped the new students to adjust and feel comfortable in the new environment and also aimed to inculcate in them the ethos and culture of the department. Dr. Sarfaraz Nawaz, Head, Dept of EE gave a brief introduction of the department. Subsequent to this, Prof. S. L. Surana, Director, Academics gave a lecture on 'Exploring Traditional Foundations and Modern Advancements in Electrical Engineering'. Students were also given certificates after the completion of the training program.



GLIMPSE OF THE TRAINING PROGRAM

## INTERACTION WITH ALUMNI ORGANIZED

Interaction with alumni of SKIT- Mr Garvish Garg, Software Engineer, Intel-corp., Bangalore; Mr. Ishan Bhatia, Software Engineer, Pinnacle, Jaipur; Mr. Kuldeep Kaushik, Sr. Manager, GAIL India and Mr. Jagdish Singh Gurjar, Aen. RVPNL was organized on 16 August, 2023. Mr. Garvish Garg shared his views on career after post-graduation. He motivated the students towards their goals and

discussed how desired jobs can be searched by using specific links. Mr. Kuldeep Kaushik shared his experience and challenges during his working in GAIL, India and also told the students about his journey of preparing for GATE exam during B. Tech. course. The programme ended with a vote of thanks by the Alumni Coordinator of the department.



GLIMPSE OF THE INTERACTION

## INDUSTRIAL VISIT TO KALPTARU BIOMASS PLANT, UNIARA, TONK AND JOHN ELECTRIC, MALVIYA INDUSTRIAL AREA, JAIPUR ORGANIZED

An industrial training visit to Kalptaru Biomass Plant, Uniara, Tonk and John Electric, Malviya Industrial Area, Jaipur was organized on 28 August, 2023 with an objective to introduce the students with the practical implementation of the theoretical aspects. It provided opportunity to the students to interact with industry experts thus giving them a new learning experience, a new vision on Employability, Management Lessons and Interpersonal Skills.



GLIMPSE OF THE VISIT

## FDP ATTENDED

TITLE : Contemporary and Innovative Teaching Pedagogy and Essential Skills for Educators  
DATE : 24 to 31 July, 2023  
ATTENDED BY : Prateek Kumar Singhal  
ORGANIZED BY : Maharishi University of Information Technology, Lucknow, U.P

## WORKSHOP ATTENDED

TITLE : Navigating the Pathways of Publishing in High Quality Journals  
DATE : 25 August, 2023  
ATTENDED BY : Prateek Kumar Singhal  
ORGANIZED BY : Elsevier Researcher Academy



Avinash Suthar, CE, II Year



Avinash Suthar, CE, II Year

## DEPARTMENT OF CIVIL ENGINEERING

### STUDENT WORKSHOP ON 'DESIGN & DEVELOPMENT OF SELF-COMPACTING CONCRETE' (DDSCC-2023) ORGANIZED

A 5-day student workshop on 'Design and Development of Self-Compacting Concrete' (DDSCC- 2023) was organized in collaboration with NIRMAAN club & ICI from 31 October to 4 November, 2023 with an objective to enlighten the students about the recent developments in construction industry which will help them to meet the industry demands and improve their employability skills. The importance of Self-Compacting Concrete (SCC), Mix Design Formulation & testing of SCC and sustainable materials for the construction practices were discussed in detail by Dr. Rakesh Choudhary and Dr. Abhishek Jain of Civil Dept., SKIT.



GLIMPSE OF THE WORKSHOP

### STUDENT WORKSHOP ON 'MS EXCEL: BASIC TO ADVANCED LEVEL' ORGANIZED

The 'MS Excel: Basic to Advanced Level' workshop was conducted from 30 October to 3 November, 2023 with an objective to equip the students with essential skills in Microsoft Excel. The workshop was organized by Dr. Pooja Jain and Mr. Deepak Sharma of Civil Department. About 40 B.Tech. II year Civil Engineering students participated in the workshop.



GLIMPSE OF THE WORKSHOP



## STUDENT WORKSHOP ON 'RECYCLED PAVEMENT DESIGN AND ITS QUALITY CONTROL' ORGANIZED

A five-day workshop on 'Recycled Pavement Design & its Quality Control' was organized under the aegis of the Centre of Excellence (Transportation Engineering), SKIT from 30 October to 3 November, 2023. The final year UG students participated and learned the concepts of Recycling Reclaimed Asphalt Pavement (RAP) using Hot Mix Asphalt (HMA) Technology. An expert talk was given by Mr. S.K. Sehgal & and Team Er. Pritam Bhowmik from TERPL India Private Limited on 'Hot In-Place Recycling of Asphalt Pavements'. Dr. Ankit Sharma from SKIT discussed about 'RAP-HMA In-Plant Recycling Mix Design Concepts with Rejuvenators', while Mr. Nikhil Kumar Sharma gave a lecture on 'Dry Lean Concrete'. An Asphalt Batch Mix Plant and Drum Mix Plant visit was also organized for providing clear understanding to the students about asphalt mix preparation at the site. About 46 students were benefited from this workshop. The workshop was coordinated by Dr. Ankit Sharma and Mr. Nikhil Kumar Sharma.



GLIMPSE OF THE WORKSHOP

## STUDENT WORKSHOP ON 'PROJECT PLANNING & MANAGEMENT USING PRIMAVERA P6' ORGANIZED

A workshop on 'Project Planning & Management using Primavera P6' was conducted from 9 to 13 October, 2023 with an objective to provide students valuable insights and hands-on experience in project planning and management using Primavera P6. The Guest of Honour was Mr. Vinod Garg, Founder of PROMAC Advisors Pvt. Ltd. Mr. Bhupesh Kumar from CADADDA, an Autodesk ATC (Authorised Training Centre) which provides certification courses and diploma in CAD / CAM / CAE discussed about Project Planning & Management using Primavera P6. The students were given exposure to the basics of Primavera P6, Project Planning and Scheduling, Resource, and Cost & Risk Management. The students also carried out some practical exercises including case studies. Dr. Pooja Jain was the coordinator of the workshop.

Coming together is the Beginning. Keeping together is progress. Working together is success.

## STUDENT WORKSHOP ON 'ANALYSIS AND DESIGN OF STRUCTURES USING ETABS' ORGANIZED

A five-day workshop on 'Structural Analysis and Design' was organized from 16 to 21 October, 2023 with an objective to provide training to the students to analyse the buildings subjected to both wind and earthquake loads. Students were taught about the methods of earthquake-resistant building design and were also taken on a site visit to IPD Tower at SMS hospital. Mr. Ankur Mishra and Dr. Sunita Tolani were the coordinators of the workshop. A total of 27 students of B.Tech. III year participated in this workshop.

## TECHNICAL FEST 'ICI FEST 2023' ORGANIZED

The Indian Concrete Institute Student Chapter organised ICI Fest '23 from 15 to 17 September, 2023 at SKIT, Jaipur. The inaugural ceremony was graced by the presence of the Chief Guest, Mr. Ravi Jain, Commissioner, Panchayati Raj Department, Government of Rajasthan and the Guest of Honour, Mrs. Kanika Kalia, Director, BIS, Jaipur. Mr. Jain motivated the upcoming technocrats for learning new skills as the infrastructural needs of the industry have changed and the young graduates must excel and serve the nation in a smarter way using latest technologies. Mr. Surjaram Ram, Chairman, SKIT thanked all the guests and congratulated the entire team of ICI Fest '2023 for organising such a grand event.

The fest comprised of 'The Engineer's Saga' & 'The Student Ventures', for the industry persons and students. The major events held on the first day were BIS Manak Manthan, Engineers Day celebration and a panel discussion on Smart Cities. The second day of the event began with a technical session on '3D printing of Concrete' by Mr. Hitesh Meena (Head, BD-Tvasta, IIT Madras). He demonstrated and explained the application of 3D printing in the area of concrete. This was followed by a panel discussion on 'The Changing Needs of Employability'. Many inter-college competitions like 'Brick O Brick', 'Joist Kwik', 'Bowling Alley', 'Crack the CAD', 'Mud Venture', 'Walkathon' etc. were also organised. The key highlight of the fest was the 'Civil Expo' which was an amalgam of technical evolution and innovation. The fest was attended by many industry people and students from various institutions. Mr. Anirudh Mathur was the faculty coordinator of the event.



GLIMPSE OF THE FEST

## BOOK CHAPTERS PUBLISHED

BOOK : Recent Trends in Transportation Infrastructure, Lecture Notes in Civil Engineering (LNCE), Vol. 354

AUTHOR/S : Ankit Sharma, Gondaime Ransinchung Rongmei Naga & Praveen Kumar

BOOK CHAPTER : Suitability of Rejuvenator Addition Method for Hot Mix Asphalt Recycling

PUBLISHER : Springer, Singapore

## WORKSHOPS ATTENDED

TITLE : Navigating the Pathways of Publishing in High quality Journals

DATE : 25 August, 2023

ATTENDED BY : Akash Johari, Bharathi M., Kishan Lal Jain, Nandini Moondra, Pooja Gupta and Pooja Jain

ORGANIZED BY : SKIT, Jaipur

## STTPs/SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE : Geospatial Technology for Climate Smart Agriculture (Online)

DATE : 10 to 14 July, 2023

ATTENDED BY : Pooja Gupta

ORGANIZED BY : ISRO and IIRS Dehradun

TITLE : Applications of Machine learning in Urban Studies (Online)

DATE : 5 to 9 June, 2023

ATTENDED BY : Deepak Sharma

ORGANIZED BY : ISRO and IIRS Dehradun

## M.TECH. SUPERVISED

DISSERTATION TOPIC : Laboratory Investigation of Hot Mix Asphalt using Steel Slag as Fine Aggregate and Granite Powder and Marble Dust

NAME OF STUDENT : Kanika

GUIDED BY : Dr. Maninder Singh (Punjabi University, Patiala) and Dr. Ankit Sharma

## PAPERS REVIEWED

TITLE : The Impact of Scour around the Pile Foundation on the Seismic Vulnerability of Continuous Beam Bridges

REVIEWER NAME : Bharathi M.

JOURNAL : International Journal of Geomechanics, ASCE

TITLE : Numerical Study on Effect of Axial Loading on Rock-Socketed Piles in Multi-Layered Soil Slope

REVIEWER NAME : Bharathi M.

JOURNAL : Indian Geotechnical Journal

TITLE : A Comparative Study on the Dynamic Behaviour of Bottom Ash and Sand through Constant Volume Cyclic Simple Shear Tests

REVIEWER NAME : Bharathi M.

JOURNAL : Geotechnical and Geological Engineering

TITLE : A Thermal Conductivity Model for Deformable and Unsaturated Soils to Assess the Thermal Behaviour of Energy Piles

REVIEWER NAME : Bharathi M.

JOURNAL : International Journal of Geosynthetics and Ground Engineering

TITLE : Contribution based on AI for Investment, Construction Projects

REVIEWER NAME : Kishan Lal Jain

JOURNAL : Jordan Journal of Civil Engineering

## EXPERT TALK DELIVERED

TITLE : Concrete Technology

DATE & VENUE : 21 September, 2023. At Engineering Staff Training Institute (ESTI) for Engineers of PWD.

DELIVERED BY : Rakesh Choudhary

TITLE : Repair & Rehabilitation of Concrete Structure

DATE & VENUE : 13 October, 2023. At Engineering Staff Training Institute (ESTI) for Engineers of WRD.

DELIVERED BY : Rakesh Choudhary

TITLE : Advanced Concrete Technology

DATE & VENUE : 16 October, 2023. At Engineering Staff Training Institute (ESTI) for Engineers of PHED.

DELIVERED BY : Rakesh Choudhary

TITLE : Advance Highway Material (AHM)

DATE & VENUE : 27 and 28 October, 2023. At Poornima University

DELIVERED BY : Mr. Nikhil Kumar Sharma

TITLE : Recycling of Road Material

DATE & VENUE : 30 May, 2023. At Institution of Engineers (India) – Rajasthan State Centre, Tonk Road, Jaipur.

DELIVERED BY : Ankit Sharma



# DEPARTMENT OF MANAGEMENT STUDIES

## ORIENTATION PROGRAMME 'SHUBHARAMBH : EMPOWERING FUTURE MANAGERS' ORGANIZED

The orientation programme, 'Shubharambh: Empowering Future Managers' was organized from 13 to 14 September, 2023 with an aim to introduce the students and their parents with the culture and resources of SKIT. The event was graced by the presence of the Chief Guest, Shri N. K. Jain, President, Employers Association of Rajasthan & Managing Director of Vidyut Teletronics Limited and also Chairman of three Govt. ITI's; Guests of Honor, Prof. Ramesh Arora, Ex. Professor, Rajasthan University, Corporate Trainer, Author & Motivational Speaker; and Mr. Mukesh Gupta, Mentor & Chief Editor, Hello Kisan. Prof. Arora shared his insights and told students how self motivation and self confidence play an important role in building one's career while Mr. Gupta talked on the importance of effective communication skills. Dr. Atul Gupta (Dy. HOD, DMS) presented the vote of thanks. The inaugural ceremony was followed by a session on 'Skill Development for Managers' by Mr. Vineet Jain.

Day 2 began with a guest lecture on 'Creativity and Innovation' by Dr. Mamta Jain, Vice Principal, Commerce College. Eminent speakers- Dr. S. S. Rajpurohit from Modi University; Ms. Ritesh Sharma, Branch Head, Bank of Baroda; Prof. Anil Mehta from Banasthali University were invited to take sessions on various topics such as 'Active Listening for Lateral Thinking', 'Ethical Marketing' and 'Personal & Professional Excellence' respectively.



GLIMPSE OF THE ORIENTATION PROGRAMME

## RE-ORIENTATION PROGRAM FOR MBA III SEMESTER ORGANIZED

Re-Orientation Programme, 'Navodaya: Rising Story of Future Managers' was organized for MBA-III Semester students on 3 October, 2023. Dr. Krishna Dayal Sharma and Mr. Vineet Jain from SKIT were the invited speakers. The event was coordinated by Mr. Ajay Verma.



GLIMPSE OF THE EVENT

## INDUSTRIAL VISIT TO 'MIRACLE GROUP' JAIPUR ORGANIZED

An industrial visit to 'Miracle Group', the packaging industry located in RIICO Industrial Area, Bagru, Extension Phase 2, Jaipur was organized for MBA I and III Semester students on 5 October, 2023 with an objective to introduce the students to actual practical concepts. Mr. Sumit Sharma, Manager - HR welcomed the faculty and the students and gave a brief history of the company. He apprised the students of the working mechanism of machinery and equipment and also discussed about the various aspects of management. Dr. Ajay Verma and Mr. Tarun Sharma were the faculty coordinators for the visit.



GLIMPSE OF THE VISIT

## NATIONAL SEMINAR ON 'NEW AGE TRENDS IN ENTREPRENEURSHIP' ORGANIZED

A national seminar on 'New Age Trends In Entrepreneurship' was organized on 4 October, 2023 with an objective to foster insights and discussions on the evolving landscape of entrepreneurial endeavors. The event was coordinated by Dr. Maneesha Kaushik.



## FRESHERS PARTY ORGANIZED

On 12 October, 2023, the Department of Management Studies successfully hosted a lively and well-attended Freshers Party creating a dynamic platform for I semester students to connect and kick-start their academic journey with enthusiasm. The event was coordinated by Mr. Tarun Sharma.



## DEPARTMENT OF BASIC SCIENCES & HUMANITIES

### DEPARTMENT OF MATHEMATICS

#### BOOKS PUBLISHED

TITLE : Engineering Mathematics-I, Advanced Engineering Mathematics-I  
AUTHORS : Amber Srivastava, Rohit Mukherjee  
PUBLISHER : Genius Publications (India).

TITLE : Discrete Mathematical Structures  
AUTHORS : Amber Srivastava  
PUBLISHER : Genius Publications (India).

TITLE : Polytechnic Ganit-I, Polytechnic Ganit-II  
AUTHORS : Vijay Kumar Singhal  
PUBLISHER : University Book House

#### FDPs ATTENDED

TITLE : Research Methodologies for Science, Management and Engineering Projects  
DATE : 9 to 13 October, 2023  
ATTENDED BY : Pramila Kumawat, Sangeeta Choudhary  
ORGANIZED BY : Education and Educational Management Department, NITTTR, Chandigarh

TITLE : Blended Learning and Flipped Classroom  
DATE : 16 to 20 October, 2023  
ATTENDED BY : Pramila Kumawat, Sangeeta Choudhary  
ORGANIZED BY : Education and Educational Management Department, NITTTR, Chandigarh

TITLE : Spoken Tutorial Project on 'R'  
DATE : 21 to 25 August, 2023  
ATTENDED BY : Chandra Prakash Jain, Pramila Kumawat, Vijay Singhal  
ORGANIZED BY : SKIT, Jaipur

#### STTPs/SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE : STTP on Mathematical Modelling and Numerical Simulation  
DATE : 24 to 28 July, 2023



ATTENDED BY : Chandra Prakash Jain  
ORGANIZED BY : B.R. Ambedkar Institute of Technology,  
Jalandhar

TITLE : STTP on IC Engine Testing and Simulation  
DATE : 10 to 14 October, 2023  
ATTENDED BY : Chandra Prakash Jain  
ORGANIZED BY : SKIT, Jaipur

TITLE : Refresher Course in Mathematics (PYTHON &  
Vedic Mathematics)  
DATE : 13 to 26 July, 2023  
ATTENDED BY : Shalini Shekhawat, Vivek Vijay, N.K. Jangid,  
C.P. Jain  
ORGANIZED BY : Teaching Learning Center, Ramanujan College,  
Ramanujan College, University of Delhi

## WORKSHOPS ATTENDED

TITLE : Frontiers in Multidisciplinary Research  
DATE : 16 to 22 August, 2023  
ATTENDED BY : Chandra Prakash Jain, Vivek Vijay  
ORGANIZED BY : Galgotias University

TITLE : National Workshop on Applied Mathematics  
and Computing  
DATE : 12 to 16 October, 2023  
ATTENDED BY : Pramila Kumawat  
ORGANIZED BY : Dept. of Engineering Mathematics and  
Computing, Madhav Institute of Technology  
and Science, Gwalior, M.P.

## FACULTY ACHIEVEMENT

- Mr Amit Dadheech has been selected as a member of the editorial board of the International journal of Fluid Mechanics and Thermal Sciences
- Mr Sumit Gupta evaluated a thesis titled 'A Study on an almost Complex Manifold and almost Contact Manifolds' of Dr. K.N. Modi University

## DEPARTMENT OF CHEMISTRY

### PAPERS PRESENTED IN CONFERENCES

TITLE : Role of Chitosan based Nanocomposites for  
Treatment of Drinking Water  
AUTHOR/S : Poonam Ojha  
CONFERENCE : National Symposium on Materials for Twenty  
First Century, 12 August, 2023 organized by the

Society for Materials Chemistry, Jaipur Chapter,  
University of Rajasthan, Jaipur

TITLE : Nano Materials for Domestic and Waste Water  
Treatment  
AUTHOR/S : Swati Joshi  
CONFERENCE : National Symposium on Materials for Twenty  
First Century, 12 August, 2023 organized by the  
Society for Materials Chemistry, Jaipur Chapter,  
University of Rajasthan, Jaipur,

TITLE : Ethanol production from Agro waste: A Review  
AUTHOR/S : Archana Saxena, Sharda Soni  
CONFERENCE : International Conference on New and Renewable  
Energy Resources for Sustainable Future, 2 to 4  
November, 2023, (ICONRER-2023) organized by  
the Dept. of Mechanical Engineering, SKIT

### STTPs/SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE : STTP on IC Engine  
Testing and Simulation (ICETS-2023)  
DATE : 10 to 14 October, 2023  
ATTENDED BY : Poonam Ojha, Swati Joshi  
ORGANIZED BY : SKIT, Jaipur

## DEPARTMENT OF PHYSICS

### PAPER PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE : Investigation of the Supercapacitor Uses of  
ZnFe<sub>2</sub>O<sub>4</sub>/Co<sub>3</sub>O<sub>4</sub>/G Composite  
AUTHOR/S : Rajiv Kumar  
CONFERENCE : Proceedings of International Conference on  
New and Renewable Energy Resources for  
Sustainable Future, 2 to 5 November, 2023  
(ICONRER-2023), organised by SKIT, Jaipur.

### PAPER PRESENTED IN CONFERENCE

TITLE : Synthesis and Characterization of Zinc  
Ferrite/Graphene Nano sheets Composite for  
Supercapacitor Applications  
AUTHOR/S : Rajiv Kumar  
CONFERENCE : International Conference on New and  
Renewable Energy Resources for Sustainable  
Future, 2 to 5 November, 2023 (ICONRER  
2023), organized by SKIT, Jaipur.

## NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : Introduction to Laser  
COMPLETED BY : Komal Sharma  
DURATION & CATEGORY : July to October, 2023 (12 – week).  
Awarded Topper Certificate

COURSE/ TOPIC : Introduction to Laser  
COMPLETED BY : Manasvi Dixit  
DURATION & CATEGORY : July to October, 2023 (12 – week).  
Awarded Elite Certificate

COURSE/ TOPIC : Patent law for Engineers and  
Scientists Programme  
COMPLETED BY : Rishi Vyas  
DURATION & CATEGORY : July to October, 2023 (12 – week).  
Successfully completed

COURSE/ TOPIC : Introduction to Laser  
COMPLETED BY : B.R. Sharma  
DURATION & CATEGORY : July to October, 2023 (12 – week).  
Successfully completed

## DEPARTMENT OF ENGLISH

### BOOK PUBLISHED

TITLE : Life Skills for Students: A Complete Capsule  
AUTHORS : Dr. Krishna Sharma & Dr. Nidhi Sharm  
PUBLISHER : Amazon Kindle Publishing, India (October, 2023)

### BOOK EDITED

TITLE : Traversing the Boundaries: Critical Essays on  
Modern Short Fiction  
EDITORS : Dr. Nidhi Sharma & Dr. Preeti Bhatt  
PUBLISHER : Amazon Kindle Publishing, India (August, 2023)



Anushka Singh, CS, I Sem

## PAPERS PRESENTED IN CONFERENCES

TITLE : Revisiting 'Gandhi Babu': The Enduring  
Relevance of Truth & Non-Violence for a  
Peaceful Nation in Contemporary Times  
AUTHOR : Nidhi Sharma  
CONFERENCE : National Conference on Mahatma Gandhi: Non  
Violence and Peace, 2 October, 2023, Central  
University of Gujarat

### FDPs ATTENDED

TITLE : Recent Trends in Literary Research  
DATE : 25 to 30 September, 2023  
ATTENDED BY : Sheeba Anjum, Neha Purohit  
ORGANIZED BY : Holy Cross College, Tamil Nadu, India

TITLE : Children's Literature: Reading, Writing and  
Publishing  
DATE : 17 to 22 July, 2023  
ATTENDED BY : Sheeba Anjum, Neha Purohit  
ORGANIZED BY : NIT Trichy

TITLE : New Frontiers in Literary Research  
DATE : 9 to 17 October, 2023  
ATTENDED BY : Neha Purohit  
ORGANIZED BY : Kristu Jayanti College, Bengaluru, India

### FACULTY ACHIEVEMENT

- Dr. Neha Purohit has been appointed as the examiner of the OET (Occupational English Test). OET is owned by Cambridge Boxhill Language Assessment Trust (CBLA). It is a venture between Cambridge English and Box Hill Institute.



Avinash Suthar, CE, II Year (5)



# PAPERS PUBLISHED

## DEPARTMENTS OF COMPUTER SCIENCE ENGINEERING & INFORMATION TECHNOLOGY

**TITLE** : Predicting Agriculture Yields based on Machine Learning using Regression and Deep Learning

**AUTHOR/S** : Priyanka Sharma, Pankaj Dadheech, Nagender Aneja, Sandhya Aneja

**JOURNAL** : IEEE Access, Volume 11, pp. 111255-111264, 2023, Print ISSN: 2169-3536, Online ISSN: 2169 3536, Impact Factor: 3.476, doi: <https://doi.org/10.1109/ACCESS.2023.3321861>. (SCIE Indexed, Q1)

**TITLE** : Breast Cancer Prediction using Supervised Machine Learning Techniques

**AUTHOR/S** : Dadheech, P., Kalmani, V.H., Dogiwal, S.R., Sharma, V.K., Kumar, A., & Pandey, S.K.

**JOURNAL** : Journal of Information and Optimization Sciences, Vol. 44, Issue 3, pp. 383-392, Print ISSN: 0252-2667, Online ISSN: 2169-0103, DOI: <https://doi.org/10.47974/JIOS-1348>, Impact Factor: 0.01, Taylor & Francis Group, TARU Publications (ABDC & ESCI-WoS Indexed)

**TITLE** : Techniques and Challenges of the Machine Learning Method for Land Use/Land Cover (LU/LC) Classification in Remote Sensing using the Google Earth Engine

**AUTHOR/S** : Amita Jangid, Mukesh Kumar Gupta, Vishal Shrivastava

**JOURNAL** : International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), Volume 11, No. 7, pp. 85-92, 2023, Online ISSN: 2321-8169, Impact Factor: 1.376, doi: <https://doi.org/10.17762/ijritcc.v11i7.7833>. (Scopus Indexed, Q4)

**TITLE** : Sentiment Analysis of Social Media Text Data using Machine Learning - A Review

**AUTHOR/S** : Kajal Mathur, Paresh Jain, Sunita Gupta, Puneet Mathur

**JOURNAL** : SGVU International Journal of Convergence of Technology and Management, E-ISSN: 2455 7528, Vol.9 Issue 1 Page No 106-115

## DEPARTMENT OF MECHANICAL ENGINEERING

**TITLE** : A Study of the Barriers to the Adoption of Integrated Sustainable-Green-Lean-Six Sigma Agile Manufacturing System (ISGLSAMS) in Indian Manufacturing Organizations.

**AUTHOR/S** : Dharmendra Hariyani, Sanjeev Mishra, Milind Kumar Sharma, Poonam Hariyani

**JOURNAL** : Cleaner Waste Systems, Vol. 5; (2023) pp. 100098

**TITLE** : Optimization and Thermo-economic Performance of a Solar-Powered Vapor Absorption Cooling System Integrated with Sensible Thermal Energy Storage.

**AUTHOR/S** : Dinesh Kumar Sharma, Dilip Sharma, Ahmed Hamza H Ali

**JOURNAL** : Energy Conversion and Management :X, Vol. 20; (2023) pp. 100440

**TITLE** : Investigation on Dry Abrasion Wear of Natural and Synthetic Fiber-Reinforced Polymer Composites Filled with Stone Waste.

**AUTHOR/S** : Vikash Gautam, Deepak Kumar, Ashiwani Kumar, M.J. Pawar

**JOURNAL** : Materials Today: Proceedings, (2023) pp. 1-6

**TITLE** : Influence of Addition of Al<sub>2</sub>O<sub>3</sub> and SiC on Tensile and Flexural Characteristics of Epoxy/Glass Fiber Hybrid Polymer Composite

**AUTHOR/S** : Raj Kumar, Kedar Narayan Bairwa, and D. R. Reddy

**JOURNAL** : Materials Today: Proceedings, (2023)

## DEPARTMENT OF ELECTRONICS & COMMUNICATION

**TITLE** : Implementation of All-Optical Single Qubit Gates using Si<sub>3</sub>N<sub>4</sub> based Micro ring Resonator

**AUTHOR/S** : Rahul Pandey

**JOURNAL** : Optics & Laser Technology, Volume 170, March 2024, 110263

**TITLE** : Resistive Random Access Memory: Materials, Filament Mechanism, Performance Parameters and Application

**AUTHOR/S** : Neeraj Jain

**JOURNAL** : Flexible Electronics for Electric Vehicles , [https://doi.org/10.1007/978-981-19-0588-9\\_3](https://doi.org/10.1007/978-981-19-0588-9_3)

**TITLE** : A Frequency and Polarization Reconfigurable L shaped Patch Antenna with Defected Ground Structure

AUTHOR/S : Pallav Rawal  
JOURNAL : Computer Science Engineering and Electrical Engineering, doi: 10.24200/sci.2021.57874.5451

TITLE : Effect of Dielectric and Active Layer Thickness on MgZnO Thin Film Transistor Characteristics  
AUTHOR/S : Manju Choudhary  
JOURNAL : Journal of Polymer & Composites, Volume 66, Part 8, 2022, Pages 3559-3562

TITLE : A Comparative Analysis of Graphene based Terahertz Reconfigurable Antennas: A Review  
AUTHOR/S : Rajni Idwal, Harshal Nigam, Monika MaAthur  
JOURNAL : Journal of Polymer & Composites, Volume 11, Special Issue 5, 2023

TITLE : Design and Analysis of Multiple Beams Phased Array Microstrip Antenna for 5G Applications  
AUTHOR/S : Harshal Nigam, Monika Mathur  
JOURNAL : Engineering Research Express, IOP Publishing

TITLE : Prospects of Terahertz Technology-A Comprehensive Review  
AUTHOR/S : Shubhi Jain  
JOURNAL : Journal of Propulsion Technology, Volume 44, Issue-3, Page-11851196, <https://www.propulsiontechjournal.com/index.php/journal/article/view/449/345>

TITLE : Review on Exploring Innovative Applications for Online Learning  
AUTHOR/S : Shubhi Jain, Priyanka Jain  
JOURNAL : Journal of Scientific Research in Engineering and Management, Volume 7, Issue-6, Page-1-2

TITLE : An Assessment on the State of Art of Internet of Things (IoT)  
AUTHOR/S : Dinesh Kumar, Lalit Kumar Lata  
JOURNAL : SKIT Research Journal Vol 13 Issue 1 (2023) ISSN 2278-2508 (P) 2454-9673(O)

TITLE : A Patch Antenna at 2.4 GHz Frequency for Bluetooth  
AUTHOR/S : Uma Rathore, Jyoti Yadav, Mukesh Arora, Harshal Nigam, Suman Sharma  
JOURNAL : SKIT Research Journal Vol 13 Special Issue 3 (2023) ISSN 2278-2508 (P) 2454-9673(O)

## DEPARTMENT OF ELECTRICAL ENGINEERING

TITLE : Optimization of Power Flow using GA Fuzzy Approach  
AUTHOR/S : Sanjeev Kumar, Prateek Kumar Singhal, Vineet Kumar, Laxmi Kant Sagar

JOURNAL : Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 10; Issue 3 (2023) pp. 1549-1557

## DEPARTMENT OF CIVIL ENGINEERING

TITLE : Evaluating Resistance of Ceramic Waste Tile Self-Compacting Concrete to Sulphuric Acid Attack  
AUTHOR/S : Ram Vilas Meena, Ankit Singh Beniwal, Abhishek Jain, Rakesh Choudhary and Ramswaroop Mandolia  
JOURNAL : Construction and Building Materials, Vol. 393; (2023).

TITLE : Effect on Mechanical Properties of Concrete using Industrial Waste  
AUTHOR/S : Kishan Lal Jain, Mukul Mangal and Shruti Bhargava  
JOURNAL : Journal of Construction Engineering, Technology & Management, Vol. 13, Issue 2 (2023).

TITLE : Evaluation of Real Time Fire Performance of Eco-Efficient Fly Ash Blended Self-Consolidating Concrete Including Granite Waste  
AUTHOR/S : Abhishek Jain, Rajesh Gupta, Sanchit Gupta and Sandeep Chaudhary  
JOURNAL : Journal of Building Engineering, Vol. 77; (2023).

TITLE : Coupled Analysis of Reinforced Concrete Building under Surface Blast  
AUTHOR/S : Sunita Tolani, Shiv Dayal Bharti, Mahendra Kumar Shrimali and Tushar Kanti Datta  
JOURNAL : Practice Periodical on Structural Design and Construction, Vol. 28, Issue 4 (2023)

TITLE : Scope and Impact of River Sand Mining in Ajmer, Rajasthan  
AUTHOR/S : Sahil Kumar, Sushil Meena, Pooja Gupta, Sachin Sharma and Sangeeta Choudhary  
JOURNAL : International Advanced Research Journal in Science, Engineering and Technology, Vol. 10, Issue 7 (2023).

## DEPARTMENT OF ENGLISH

TITLE : Tradition and Modernity: Revisiting the Changing Images in Manju Kapur's A Married Woman  
AUTHOR : Nidhi Sharma  
JOURNAL : SKIT Research Journal. Volume 13, Issue 1(2023) Pg. 57-60



## DEPARTMENT OF PHYSICS

TITLE : Fabrication of Ternary Composite  
ZnFe<sub>2</sub>O<sub>4</sub>/Co<sub>3</sub>O<sub>4</sub>/G for High Performance  
Supercapacitor

AUTHOR/S : Rajiv Kumar

JOURNAL : MRS Advances, Volume 8, pp 843–848  
(August 2023)

## DEPARTMENT OF MATHEMATICS

TITLE : MHD Micro Polar Fluid Flow over a Stretching  
Surface with Melting and Slip Effect

AUTHOR/S : Surbhi Sharma, Amit Dadheech, Jyoti Arora

JOURNAL : Scientific Reports, Nature

TITLE : Investigation of Oldroyd-B Fluid Flow and Heat  
Transfer over a Stretching Sheet with Nonlinear  
Radiation and Heat Source

AUTHOR/S : Surbhi Sharma

JOURNAL : Heat Transfer, Wiley

TITLE : Investigation of Radiative MHD Carreau  
Nanofluid over an Inclined Stretching Cylinder  
with Activating Energy, Wu's Slip, and  
Convective Heating

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

JOURNAL : Numerical Heat Transfer Part B: Fundamentals,  
Taylor and Francis.

TITLE : Dynamics of Inventory Management with Time  
Varying Demand and Deterioration: A  
Comprehensive Cost and Profit Analysis

AUTHOR/S : Vivek Vijay

JOURNAL : International Journal of Science and Research  
(IJSR)

TITLE : Fractional Calculus Results for Mathieu Series  
and Generalized Lommel Wright Function

AUTHOR/S : Pramila Kumawat, Sangeeta Choudhary

JOURNAL : International Journal of Mathematics and its  
Applications

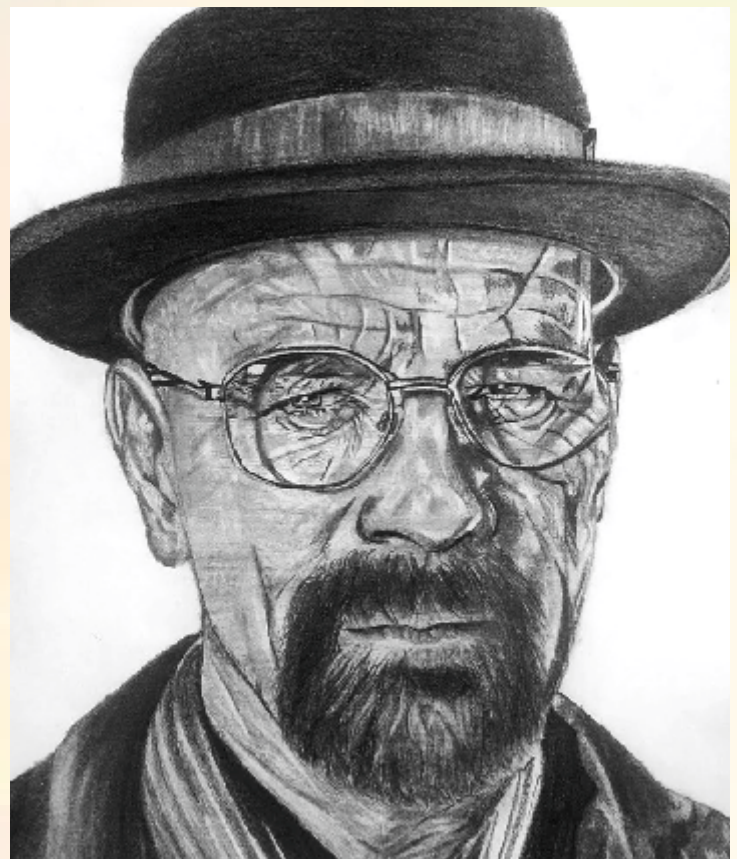
TITLE : On Partial Derivative of Multi-Variable  
Incomplete H-Function

AUTHOR/S : Shalini Shekhawat

JOURNAL : IAENG International Journal of Applied  
Mathematics



Avinash Suthar, CE, II Year

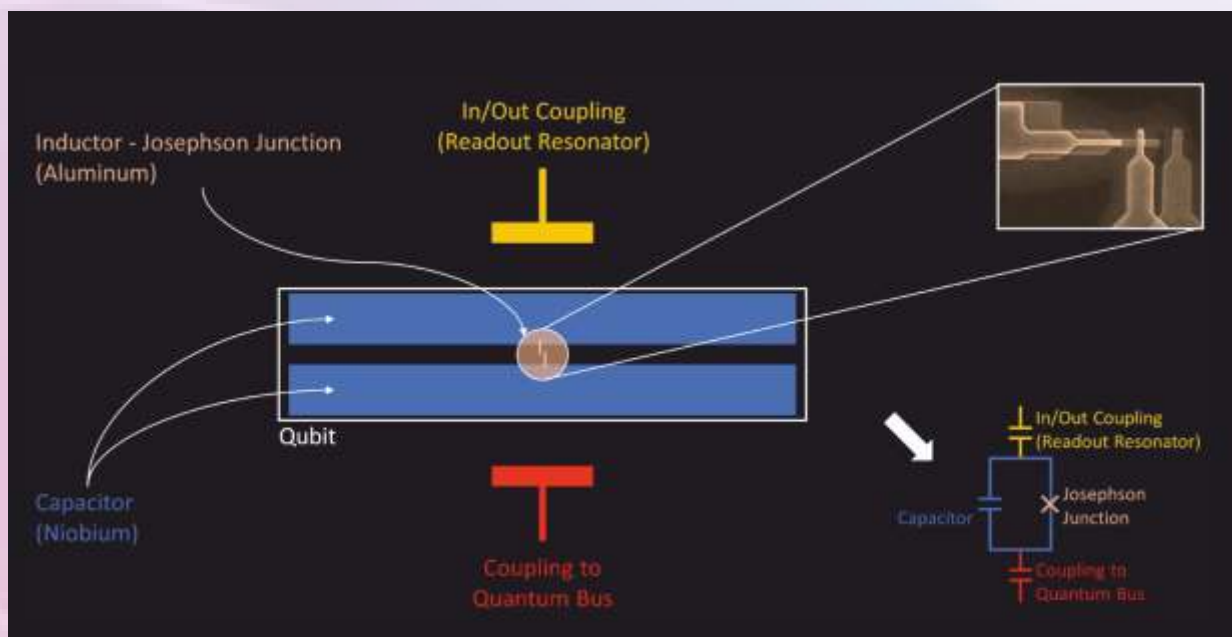


Lakshay Pareek, I Sem, CSE

The future belongs to those who believe in  
the beauty of their dreams.

## Transmon Qubit as Non linear Anharmonic Oscillator

In a transmon qubit, metal pads are present which have many electrons. By applying an electric field across them, we can create a displacement. Due to this, positive and negative charges shuttle across both the metal islands through a bridge present in between. Typically in one of the metallic islands, there are approximately 1012 electrons which is going to be a very low temperature causing the condensation of electrons into superconducting pairs called Cooper pairs and they move without dissipation. We can observe a bridge between metal pads which is actually a Josephson tunnel junction (working as inductor here) responsible for non linearity in this device. It could be a nano wire or an atomic point contact or it could be a variety of things. These two metal pads in lumped element regime can be modeled as a capacitor. This transmon qubit can be observed as combination of non linear inductor and capacitor, hence it is referred to as Non linear Anharmonic Oscillator. The two lowest energy states of this oscillator can be used as qubit which is a basic information unit of quantum computing.



[Image Reference: Electronics360]

### Features of Transmon Qubits

1. **Anharmonicity:** In its energy spectrum, we can observe that energy levels are unevenly spaced. It is a fundamental requirement for precise controlling of a two level system. We can use the ground state and first excited state for qubit.
2. **Long Coherences Times:** It is a measure of how long a qubit can maintain superposition state which is most desired for quantum computation.
3. **Resonators:** Microwave resonators are coupled to transmon qubits which helps in reading out the state of the qubit and facilitating interactions with other qubits.

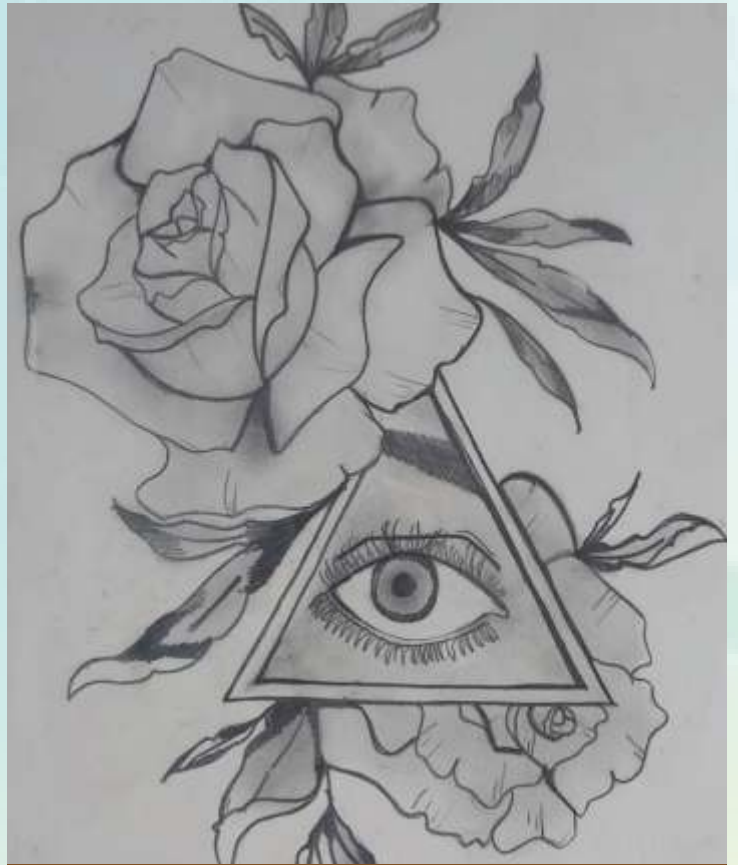
Transmon qubits are widely used in Circuit Quantum Electrodynamics(cQED).

**Priyanka Sharma**  
**Assistant Professor**  
**ECE Department**





Preeti Gupta, 5th Sem, EE



Avinash Suthar, CE, II Year



Yashi Tibra, CSE, I Sem



Yashi Tibra, CSE, I Sem



## ॥ जिंदगी ढूँढती हूँ ॥

जिंदगी ढूँढती हूँ,  
हर किरसे में हँसी ढूँढती हूँ,  
गम में भी खुशी ढूँढती हूँ ।  
मैं तो एक नादान-सी जान हूँ,  
बस, जिंदगी ढूँढती हूँ ।

तूफानों ने बहुत सताया,  
बारिश ने भी बहुत रलाया,  
आज भी इस बंजर में मैं नमी ढूँढती हूँ,  
मैं तो एक नादान-सी जान हूँ, बस, जिंदगी ढूँढती हूँ ।

हर चाहत को किया पूरा,  
सपनों की भरी उडाने,  
थक चुकी अब मैं, दो पल रुकने को जमीं ढूँढती हूँ,  
मैं तो एक नादान-सी जान हूँ, बस, जिंदगी ढूँढती हूँ ।

कहती हैं ये दुनिया, काफी है इतना,  
पर मैं हर बार, आगे बढ़ने को,  
खुद में कुछ कमी ढूँढती हूँ  
मैं तो एक नादान-सी जान हूँ, बस, जिंदगी ढूँढती हूँ ।

Komal Kanwar Korawat, CE, IV Year



## ॥ द्वापर युग की एक कहानी ॥

सिद्ध करने चरित्र की प्रमाणिकता, दी सीता माता ने भी अग्नि परीक्षा ।  
पवित्र थी यह जानती थी वो, पर पत्नी धर्म से न तनिक घबराई वो,  
छोड़ लव कुश श्रीराम को, भूगर्भ में समाई वो ।  
हुए संतापित श्रीराम देखकर भीग गए उनके नैना,  
बिन सिया के व्यर्थ लगा उन्हें इस संसार में रहना ।  
सूर्य नदी में लेकर जल समाधि, वैकुण्ठ को किया प्रस्थान, त्रेता युग का अंत  
हुआ, द्वापर युग का हुआ आह्वान ।

द्वापर युग की वह कथा जिससे ना कोई वंचित है,  
लिया जन्म श्रीविष्णु के उस अवतार ने  
मोर पंख मुकुट पै जिसके सर्वदा ही सुशोभित है ।  
कभी यशोदा के लला बनकर, कभी राधा के प्रियतम बनकर, तो कभी अर्जुन  
के सारथी बनकर, रचाई उन्होंने अनेक लीलाएँ,  
बढ़ते अधर्म के विनाश के लिए, विस्तृत की अपनी चारों भुजाएँ ।

भीष्म पितामाह के एक वचन ने बदली पूरी कहानी,  
पांडू हुए राजा हस्तिनापुर के, धृतराष्ट्र को हुई परेशानी ।  
फिर जिनका जन्म हुआ, वो इस शतरंज के असली प्यादे थे,  
राज्यभूमि के लालच में, रणभूमि में अपने भी हुए पराए थे ।  
कौरवों और पांडवों में फिर एक नई जंग छिड़ी,  
बैठने की हस्तिनापुर की गद्दी पर, सबमें थी उमंग बढ़ी ।  
धृतराष्ट्र ने राज्यसभा में, युधिष्ठिर को सारा राज पाट सौंप दिया,  
मामा शकुनी और दुर्योधन को गहरी ठेस यहाँ पहुँच गयी । दिल में पीड़ा के  
तीर चले, मन से ईर्ष्या के बाण,  
दोनो ने फिर मिलकर रचे थे यहाँ अनेकों काण्ड ।  
कभी लाक्षाग्रह, तो कभी चौसर का था खेल खेला, धर्मराज युधिष्ठिर को भी  
अधर्म की ओर था ढकेला । द्रोपदी की उस पीड़ा को, शब्दों में कैसे बयान करें  
विद्वानों से भरी उस सभा की तरह, मैं भी क्यूँ न मौन धरूँ । श्री कृष्ण की शांति  
संधि दुर्योधन को न रास आई,  
युद्धभूमि की ओर किया प्रस्थान, अधर्म की बजी शहनाई ।

शंख बजे, मृदंग बजे हुआ युद्ध का आह्वान,  
दुर्योधन के साथ थी नारायणी सेना, पाण्डवों के साथ थे श्री कृष्ण महान ।  
अपनों को ही विपक्ष में देखकर अर्जुन कुछ यूँ घबरा गए, छोड़ गांडीव हाथ से,  
श्री कृष्ण की शरण में आ गए ।  
विराट रूप में आकर जगत गुरु ने गीता के उपदेश दिए, धर्म, सत्य और न्याय  
के अर्जुन को संदेश दिए ।  
अर्जुन उस क्षण खड़े हुए, हाथों में गांडीव फिर थाम लिया, कौन अपने कौन  
पराए, सभी अधर्मियों का विनाश किया । कुरुक्षेत्र की वो रणभूमि उस दिन  
लहलुहा हो गई थी, अभिमन्यु की मृत्यु से, पाण्डवों की आँखें आंसूओं से भर  
गई थी ।

साथ लेकर शिखण्डी को बाणों का सेज सजा दिया,  
भीष्म पितामाह को भी उस दिन मृत्यु के घाट पहुँचा दिया । दुर्योधन को मार  
भीम ने द्रोपदी का वचन निभाया,  
दानवीर कर्ण के दान से कुंती ने अर्जुन को बचाया ।  
धर्म अधर्म की इस जंग की अंतिम घड़ी अब आ गई, अपने वंश का अंत कर,  
पाण्डवों की भी नजरें शर्मा गई । लहू से लिपटे मुकुट को युधिष्ठिर के सिर  
सजा दिया,  
यादव वंश के अंत का गांधारी ने श्री कृष्ण को श्राप दिया ।

महाभारत की इस गाथा ने एक नया इतिहास रचा,  
भाइयों ने ही भाइयों के खिलाफ शस्त्रों का दिया सेज  
सजा ।  
यादव वंश भी फिर समाप्त हुआ, गोकुल नगरी भी सूनी हुई,  
जरा के उस तीरे से श्री कृष्ण की मृत्यु थी लिखी हुई । प्राणों को फिर  
त्यागकर, वैकुण्ठ को उन्होंने किया प्रस्थान, द्वापर युग का अंत हुआ, कलयुग  
का हुआ आह्वान ।

Lakshay Soni, CS(AI), III Sem



## PARENTS



They never let you down  
 Their every frown,  
 Was worth more than a crown  
 But that you realize later  
 When your life becomes better  
 They never let you feel any pain  
 Their worries were indeed not in vain  
 But that you realize later.....

Your needs were always their priority,  
 Fulfilled without claim or feeling of superiority  
 They stood firmly like a solid rock in your adversity  
 Your happiness was their only invasion  
 Your success was their proudest possession  
 They encouraged you day and night,  
 Sometimes, in anger and sometimes, in delight  
 Like a compass, they guided you in the right direction

They sacrificed their entire lives for us,  
 Without any expectations; or fuss  
 They pledged readily; all their belongings for us,  
 Wishing for our good health and long years  
 Our names were mentioned silently in their prayers  
 They wished for our wellbeing,  
 Shaping us into better human beings,  
 From our birth to growing years

Sometimes, with love and sometimes, with strife,  
 They equipped us to fight the big battles of our life,  
 Removing all our fears and fright  
 They taught us to be patient in every calamity  
 And to remain firmly grounded to reality  
 To always learn from our experiences and failures  
 And to never boast on receiving the glories or grandeurs  
 To believe in Almighty and the idea of humanity  
 But that you realize later.....

Dr Shipra Malik, Associate Professor, Dept. of English

## BELIEVE IN YOURSELF

Know the time will come  
 Just like the day I began  
 I forgot my own history  
 Smoking all day herbs  
 Thinking about never giving up  
 Charging myself day and night  
 Reading books, which relates my life  
 Searching alone into those woods  
 I found my own life purpose  
 Now I have to go quiet  
 Just gonna write  
 What comes next in my mind  
 Sleeping all day and night  
 Never gonna get, what I desire  
 Leading me straight to the hell  
 I am gonna ruin me and myself  
 But if that's what I desire  
 Let's face the truth  
 That in the end  
 We all might not survive  
 So be the person  
 You always wanna find  
 Just believe what's already  
 There inside your mind  
 God loves our kind  
 So he will never ruin innocent's life  
 That's the only reason  
 I believe in myself  
 So now I know  
 What I really have to find!

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