

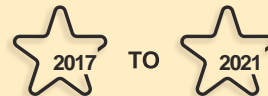


SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN

शारदीय अंक - 52



BY RAJASTHAN TECHNICAL UNIVERSITY (RTU), KOTA



CONSECUTIVELY FOR 5th YEAR



# THE SKIT TIMES



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## VISION

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

## MISSION

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

## CONTENT

1. COVER STORY	2
2. BREAKTHROUGH	3
3. NEWS FLASH	3-4
4. ECA CELL ACTIVITES	4-6
5. DEPARTMENTS OF CSE & IT	7-9
6. DEPARTMENT OF ME	10
7. DEPARTMENT OF CE	10-11
8. DEPARTMENT OF ECE	12-14
9. DEPARTMENT OF EE	15-17
10. DEPARTMENT OF MBA	21
11. DEPARTMENT OF BASIC SC. & HUM	17-20
12. PAPERS PUBLISHED	22-23
13. POEMS	24
14. LITRICK	25

# THE EDITOR SPEAKS



## REDEFINING THE WORD 'YOUTH'

Presently, the word 'youth' is taken as a misnomer meaning a period between childhood and middle age. According to 'The Mother', Auroville Ashram, Puducherry, youth is not a question of age but of attitude and spirit. People of any age can be termed as youth; provided they are working for the emancipation of the world into a new world order. Youth are the builders of a better future, hence youth should be awakened towards the realization of higher aim in life. Youth should work for the advent of a new humanity. They should channel their thinking, energies and passions into building a new world society which would be a society of oneness, fearlessness, truthfulness and co-existence.

Each nation should contribute to the evolution of higher humanity because each nation has its own unique consciousness and genius, awakening of which, it can contribute to the global consciousness of humanity. At present, India is facing a huge cultural damage from the West. Youth is getting attracted not towards the positive cultural genius of the West but to the fashionable, shallow and degenerate aspects of the Western culture. In order to curb the influence of the Western culture, we should sanctify our own ancient culture which is based on ethical, intellectual and spiritual consciousness. We should dig out these cultural assets and work towards the regeneration of our nation- awakening the youth to achieve higher goal in life.

Shri Aurobindo says, it is not the number of years that we have lived make us old, but a halt in the process of growth of consciousness. Progress is youth; at a hundred years of age one can be young. The child does not worry about growth, he simply grows.

Dr. Anupriya Singh, EDITOR-IN-CHIEF

## एन.एस.एस.:संवेदना, सहयोग, समर्पण

स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान में युवा एवं खेल मंत्रालय, भारत सरकार द्वारा संचालित राष्ट्रीय सेवा योजना की एक इकाई, जिसमें 100 स्वयंसेवक कार्यरत हैं, का संचालन किया जाता है। 2017 से इस इकाई के कार्यक्रम अधिकारी डॉ. अनुराग शर्मा हैं। प्रति वर्ष फरवरी व मार्च के महीने में संस्था के निदेशक (एकेडमिक्स), डॉ.एस. एल. सुराना के मार्गदर्शन में किसी गाँव के सरकारी भवन का चुनाव कर उस में विशेष शिविर का आयोजन किया जाता है। इस शिविर के दौरान उस सरकारी भवन का कायाकल्प किया जाता है। इसके अलावा, दो एक दिवसीय शिविरों का भी आयोजन किया जाता है, जिसमें सामाजिक सरोकार के विभिन्न कार्य किये जाते हैं। इकाई द्वारा प्रतिवर्ष एक रक्तदान शिविर का आयोजन भी किया जाता है। स्वामी केशवानंद जी का मानव सेवा का सपना वास्तविक रूप से एस्केआईटी की राष्ट्रीय सेवा योजना की इकाई के द्वारा पूरा किया जा रहा है। संस्था के चेयरमैन, श्री सुरजा राम मील भी इस तरह के सेवा कार्यों में जुड़े रहे हैं। उनके द्वारा किये गए कार्यों से प्रोत्साहित हो कर ही एस्केआईटी के स्वयंसेवकों ने भी अपने आप को समाज सेवा के कार्यों में समर्पित किया हुआ है।

विशेष शिविरों के दौरान समाज को वास्तविक रूप से लाभान्वित करने का उद्देश्य एस्केआईटी की राष्ट्रीय सेवा योजना की इकाई का है।

सांगानेर तहसील के दांतली गाँव का यात्री विश्राम गृह जिसे ग्रामीण लोग काम में नहीं लेते थे, का कायाकल्प 2019 में स्वयंसेवकों ने किया। उस जगह की मरम्मत कर के रंग रोगन का काम किया गया तथा उस की दीवारों पर राजस्थानी थीम पर कलाकृतियाँ बनाई गयीं। उस जगह पर मेडिकल कैंप भी लगाया गया, जिसमें अनेक प्रकार के मेडिकल टेस्ट करे गए, जिससे 400 से अधिक ग्रामीण लाभान्वित हुये। स्थानीय प्रशासन के सहयोग से पूरे परिसर की तार बंदी भी करवाई गयी। आज जब भी उस गाँव में हम जाते हैं, तो उस स्थान जिसको पूर्व में कोई भी काम में नहीं लेता था, वहाँ आज ग्रामीण विभिन्न प्रकार के कार्यक्रमों का आयोजन करते दिखाई देते हैं, जो सभी के मन में आगे भी ऐसे कार्य करने के प्रति उत्साह जाग्रत करता है।

इसी क्रम में, वर्ष 2020 में भी इसी गाँव के पंचायत भवन का कायाकल्प का काम सात दिवसीय शिविर के दौरान किया गया। पूरे भवन का रंग रोगन कर के विभिन्न कलाकृतियाँ भवन की दीवारों पर बनाई गयीं और पूरे भवन को आकर्षक बनाया गया। फिर इस परिसर में बालिकाओं के लिए आत्म रक्षा शिविर का आयोजन भी किया गया व एस्एमएस हॉस्पिटल के माननीय चिकित्सकों की टीम द्वारा विभिन्न बिमारियों से सुरक्षा हेतु एक कार्यशाला का आयोजन भी किया गया। इस कार्यशाला से 300 से अधिक ग्रामीण लाभान्वित हुये। राजस्थान लोक सेवा आयोग के पूर्व चेयरमैन, डॉ.बी.एम. शर्मा ने समापन कार्यक्रम के दौरान स्वयंसेवकों के काम की सराहना की।

साल 2022 में शिक्षा के क्षेत्र में काम करने की बात स्वयंसेवकों के मन में आई, इसलिए शिविर का आयोजन गाँव के किसी सरकारी स्कूल में लगाना निर्धारित किया गया। इसके लिए दांतली ग्राम पंचायत के सिस्यावास गाँव के प्राथमिक स्कूल का चयन किया गया। सात दिन के शिविर के दौरान, इस स्कूल के रंग रोगन का काम स्वयंसेवकों ने किया और टीचिंग-लर्निंग (पढ़ाने-सीखने) से संबंधित कलाकृतियाँ दीवारों पर बनाई, जिसमें हिंदी महीनों के नाम, अंग्रेजी महीनों के नाम, बारहखड़ी, पहाड़े, गिनती एवं विभिन्न कार्टून कैरेक्टर्स बनाये गए। संस्था की प्राचार्या ने स्वयंसेवकों के द्वारा किये गए काम की तारीफ की, तथा इस कार्य को स्कूल के छात्र-छात्राओं के लिए बहुत उपयोगी बताया।

समापन कार्यक्रम के दौरान राजस्थान के मुख्यमंत्री श्री अशोक गहलोत के विशिष्ट अधिकारी (ओएसडी) श्री लोकेश शर्मा के सामने स्वयंसेवकों के द्वारा किये गए कार्यों को प्रदर्शित किया गया। उन्होंने स्वयंसेवकों के काम की तारीफ की तथा स्वयंसेवकों को मुख्यमंत्री जी से संवाद के लिए भी आमन्त्रित किया।

उच्च एवं तकनीकी शिक्षा की पूर्व सचिव डॉ. शुचि शर्मा (सेवानिवृत्त आईएएस) के साथ मिलकर जयपुर शहर की व सांगानेर तहसील की पाँच आँगनबाड़ियों को भी एन एस एस इकाई द्वारा गोद लिया गया है। इसी क्रम में घाटी कारोलान खो नागोरिया क्षेत्र की आँगनबाड़ी में सामान्य सूविधाओं को विकसित किया गया। बच्चों के लिए खिलौने, टेबल, कुर्सी, हवा के लिए पंखे व पीने के पानी के लिए मिल्टन के टैंक उपलब्ध कराये। इस कार्य में सम्पूर्ण आर्थिक मदद संस्था के निदेशक, श्री जयपाल मील ने की। संस्था के प्रचार्य, डॉ. रमेश कुमार पचार सदैव कार्यक्रम स्थल पर जा कर स्वयंसेवकों का उत्साहवर्धन करते रहे हैं।

एस्.के.आई.टी. की इस यूनिट के द्वारा आगे भी ऐसे कार्यक्रमों का आयोजन कर के समाज सेवा में अपना योगदान देने का क्रम बनाया रखा जायेगा।

डॉ. अनुराग शर्मा  
सह-आचार्य, रासायनिकी विभाग

# BREAKTHROUGH

## STUDENTS' ACHIEVEMENTS

### STUDENTS TEAMS OF SKIT SELECTED IN 'SMART INDIA HACKATHON-2022'

Four teams of CS & IT department were selected in national level event grand finale of 'Smart India Hackathon-2022' (three for Software and one for Hardware Edition).

Team Name : Cap Coders  
Team Members : Ayushi Agarwal, Ashu Agarwal, Dharmi Kapadiya, Ashwin Gupta, Gautam Kumar Jain, Aaditya Trivedi  
Faculty Mentor : Dr Neha Janu

Team Cap Coders was declared winners of 'Smart India Hackathon 2022' Software Edition at Sage university, Indore.

Team name : Creative Minds  
Team Members : Rahul Jain, Ronka Gupta, Sakshan Jain, Rohan Mishra, Purvi Harplani, Rahul Suthar  
Faculty Mentors : Ms. Priyanka, Mr. Mahendra Beniwal, Ms. Priyanka Sharma

Team Name : Spark22  
Team Members : Aditya Soni, Jigyashu Sharma, Abhishek Sharma, Anuska Tiwari, Aditya Gupta, Pragati Khandelwal  
Faculty Mentor : Mr. Naveen Jain, Mr. Sunil Dhankar

Team Name : The Olympians  
Team Members : Aayushman Mishra, Disha Tyagi, Chirag Sharma, Isha Tripathi, Om Verma, Ankit Choudhary  
Faculty Mentor : Dr. Nilam Choudhary, Mr. Sudesh Garg

### STUDENTS TEAMS OF SKIT SELECTED IN 'TECH-A-THON 2.0'

Two teams of CSE department grab positions in top 5 teams at 'Tech-A-Thon-2.0'

JCERC Tech-A-Thon-2.0 ( At JCERC University, Jaipur)  
Team Name : Tech Magnet (2nd Position)  
Team Members : Ashu Agarwal, Dharmi Kapadiya, Ashwin Gupta, Tanmay Mudgal  
Faculty Mentors : Dr. Nilam Choudhary, Ms. Priyanka Sharma, Ms. Surbhi Sharma

CodeRed 2.0 Hackthon (At VGU Campus, Jaipur)  
Team Name : Samadhaan  
Team Members : Ashu Agarwal, Dharmi Kapadiya, Ashwin Gupta, Gautam Kumar Jain  
Faculty Mentors : Dr. Nilam Choudhary, Ms. Priyanka Sharma, Ms. Surbhi Sharma

# NEWS FLASH

## SKIT AWARDED 'TOP CONTRIBUTING INSTITUTION' AT IBM HACK CHALLENGE 2022

SKIT was awarded the 'Top Performing Institute' at IBM Hack Challenge 2022 for its outstanding and valuable contribution to the hackathon. Prof. Anil Choudhary, HOD, Dept. of IT received the prestigious award on behalf of the institute.



## TECHNICAL QUIZ ON 'NATIONAL SCIENCE DAY' CONDUCTED

Entrepreneurship Development Cell and Incubation Cell 'SRIJAN' organized a technical quiz on the occasion of 'National Science Day' on 15 October, 2022. The quiz aimed at spreading awareness among the students about the importance of science and its applications which is necessary to accelerate the pace of development. Certificates were given to all the participants.

## WORKSHOP ON 'NPTEL AWARENESS AND ONLINE B.SC DEGREE PROGRAMME' ORGANIZED

A one-day workshop on 'NPTEL Awareness and Online B.Sc Degree Programme' was jointly organized by Indian Institute of Technology, Madras and Swami Keshvanand Institute of Technology, Management & Gramothan in which SPOCs and faculty members from various colleges and students of online B. Sc. Degree, IITM participated. Prof. Andrew Thangaraj, National Coordinator of NPTEL & Online B.Sc. Degree Programme and Ms. Bharati Balaji, Operation Head, NPTEL & Online B.Sc. Degree Programme were the chief guests of this workshop. Prof. S. L. Surana, Director (Academics), SKIT welcomed the chief guests, participants and shared his valuable suggestions.

Two sessions were held in the workshop. In the first session, the chief guests shared the information about various schemes and activities such as rating, GATE portal, soft skill training programme, internship schemes, placement opportunities and various scholarship schemes related to NPTEL. This was followed by an interactive session with the students. In the second session of this workshop, an interaction was held with the students pursuing online B.Sc. degree from the Indian Institute of Technology, Madras. Students shared their experiences and feedback about this online degree programme.

## SKIT GOT THE AWARD FOR 'EXCELLENCE IN PLACEMENTS'

SKIT got the award for 'Excellence in Placements-2022' in the engineering segment by Zee Rajasthan. SKIT has been maintaining an impressive placement record crossing the mark of 700 in 2022. Shri Jaipal Meel, Director of SKIT dedicated the award to the untiring efforts & hard work of the students and the faculty of the institute.

## WORKSHOP ON 'INTELLECTUAL PROPERTY RIGHTS AND IP MANAGEMENT FOR START-UPS'

IPR Cell and the Innovation Council of SKIT organized a workshop on 'Intellectual Property Rights and IP Management for Start-Ups' in virtual mode on 26 August, 2022 under the aegis of Ministry of Education's (MOE) Innovation Cell and Ministry of Education, Govt. of India. The workshop was conducted to spread awareness among the students on various IPR-related issues. Dr. Savita Choudhary, convener of the workshop welcomed the dignitaries.

## JITENDRA KUMAR MEENA OF SKIT GOT FIRST POSITION FOR HIS START-UP IDEA AT RAJASTHAN DIGIFEST

Jitendra Kumar Meena, student of IV Sem, ME dept. got first position for his start-up idea 'Multipurpose Fertilizer Sprinkler Machine' in the Rural Innovation Challenge at Jaipur District Level announced by the Department of Information Technology, Govt. of Rajasthan and i-start during Rajasthan Digifest at Birla Auditorium, Jaipur on 20 August, 2022. He got a token amount of Rs 1 lakh & a winner trophy for his brilliant idea.

# ECA CELL ACTIVITIES

## 75<sup>th</sup> INDEPENDENCE DAY CELEBRATION

75th Independence day was celebrated with great enthusiasm and patriotic fervor by all the students, teachers and staff members in the front lawn of Civil Block on 15 August 2022. The event was graced by Shri Surja Ram Meel, Chairman, SKIT; Prof. S.L. Surana, Director (Academics), SKIT; Prof. Ramesh Kumar Pachar, Principal, SKIT; Prof. R.K. Jain, Dean, SKIT and other dignitaries. There were programs like dances, songs, presentations, and a parade by the N.C.C. students. Shri Surja Ram Meel gave an inspiring speech and exhorted the students to work for the welfare of their society. Prof. S.L. Surana talked about the responsibilities of the youth for building the future of the nation.

## PRELIMS OF 'SPRING FEST' 2023 ORGANIZED



ECA Cell in collaboration with IIT Kharagpur conducted prelims of 'Spring Fest' 2023 on 8 October, 2022 at Gyan Mandir Auditorium. Many events were organized in it. The music round started with 'Beat-Boxing' category. After this, the 'Rap Mania' started in which the participants delivered solo performances in 'hip-hop' style. The third category consisted of vocal performances. Mr. Jay Rao from Rao Gharana was the judge for the music round. This was followed by a program on poetry. The judge for this category was Mr. Anant Vyas, Joint Secretary of the country's leading cultural organization 'Shruti Mandal'. Dance was the next category which was judged by Ms. Lavanya Singh from Jaipur Gharana. It was followed by a drama competition named 'I, Me, Myself' and two 'nukkad natak' depicting an increase in the greediness of people.

## ROBOTICS WORKSHOP ON 'LFR AND PICK AND PLACE ROBOTS' ORGANIZED

The Robotics Club organized a workshop on 'LFR and Pick and Place Robots' on 19 September, 2022 at Meghnad Saha Seminar Hall, SKIT with an aim to give practical knowledge to the students who are going to participate in Techfest Zonals. In session-1, the speaker, Mr. Mukul Shandilya from 'Technise' guided the students about techfest competitions and discussed about various types of robots like line



Ankit Gupta,  
3rd Sem, Computer Science Engineering

Following Robot, Pick and Place Robot etc. The speaker also talked about Arduino uno, IR sensors, Motor Drivers and gave the basic programming knowledge about Arduino. In session 2, the students learnt how to make a Line Following Robot.



## INTRA COLLEGE DANCE COMPETITION 'MAYUKH' ORGANIZED

The Dance Club organized an intra college dance competition 'Mayukh' on 12 October, 2022. 37 participants performed under different categories of dances like Classical, Bhangra, Rajasthani etc. The event was coordinated by Ms. Nikhar Bhatnagar and Mr. Deepak Saini. The judges for the event were Ms. Deepti Arela and Ms. Namita Soni.



## TREE PLANTATION DRIVE ORGANIZED

Eco-friends Club organized a massive tree plantation drive on 26 July, 2022. On this day, the students took oath for taking care and watering of trees on regular basis in accordance with the directions of AICTE.

## EVENTS CONDUCTED BY EMBEDDED CLUB

### EVENT 1: 'PYTHON QUIZ' ORGANIZED

The club organized 'Python Quiz' on 17 September, 2022 in which the participants were asked questions about Python Programming Language. The quiz was conducted in two rounds. Khushi Choudhary (CSE-AI), Snehal Jain (ECE) and Shreya Jha (ECE) secured 1st, 2nd and 3rd position respectively.

### EVENT 2: EXPERT LECTURE ON 'CRAFT YOUR CAREER'

The expert lecture was conducted on 7 September, 2022 with an aim

to guide the students about pursuing their career and becoming successful in industry. Mr Amrut Dhumal, Co-founder and Chief Learning Officer and Ms Manjari Sheel, Entrepreneur & Product Manager at the Mindseed and the Foundree Preschools & the Vishwajyot Group of Schools were the experts.



### EVENT 3: ARDUINO WORKSHOP

The workshop was organized on 27 September, 2022 with an objective to teach the students about the working of microcontrollers and they were also guided to make a working model of a car using Arduino microcontroller. Ashutosh Jangir of 5th Sem, ECE took the session.

## EVENTS ORGANIZED BY UNIVERSAL HUMAN VALUES AND ETHICS COMMITTEE

### EVENT 1: YOGA DAY CELEBRATION

Universal Human Values and Ethics Committee celebrated International Yoga Day on June 2022. The event began with a brief introduction on Yoga Day by the student coordinator Priya Gupta. Ms. Ruchika Khandelwal of CSE Dept was the yoga instructor. She encouraged the students to practise regular yoga to remain fit and improve their concentration. All students were taught the art to maintain harmony between body and mind.



## EVENT 2: TEEJ CELEBRATION

The colourful celebration of 'Sinjara Utsav' was organized on 30 July, 2022 in the open lounge on the ground floor of Civil block. Girls from B.tech and Pharmacy and female faculty members from all departments participated in the event. The program commenced by offering prayers to Teej Mata followed by a delightful welcome speech by Prof. Archana Saxena and Dr. Nidhi Sharma. Mehndi competition was organized for the willing contestants and winners badges were awarded to the top 5 candidates. The program became enjoyable with the beautiful dance & singing performances by the students and the faculty members. The student coordinator, Priya Gupta entertained the crowd with various activities such as short quiz and ramp walk which kept the ambience full of enthusiasm. Priya Gupta, Mohak Saini (UHV & EC), Yash Thakur, Pari Manoj Saraswat (Fine Arts and Craft Club) were the student coordinators, of the event.



## EVENT 4: TEACHERS' DAY CELEBRATION

UHV & EC celebrated Teachers' day on 5 September, 2022 on the occasion of the birth of Dr. Sarvepalli Radhakrishnan. The event began with a wonderful speech by Shreya Ameta & Ishika Bansal signifying the true importance of a teacher in a student's life. Afterwards, a melodious song was presented by Ms. Aakriti Sharma of Computer Science department. The event ended with a vote of thanks by the student coordinators, Priya Gupta & Divya Mittal.



## EVENT 5: GANDHI JAYANTI CELEBRATION

To mark the 150th birth anniversary of Mahatma Gandhi and Shri Lal Bahadur Shastri with patriotic fervour, the students and the professors gathered at CSE Block on 2 October, 2022. The programme started with the chanting of patriotic songs. A quiz of about 40 questions on the life achievements and contribution towards nation

and society of the two renowned personalities was also held. The event was graced by Prof. Ramesh Kumar Pachar, Principal, SKIT.



Raju Sharma  
7th Sem, Electrical Engineering



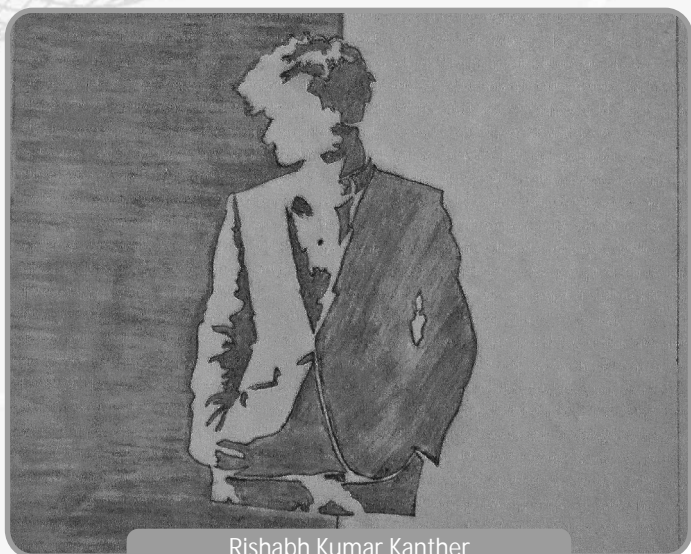
# DEPARTMENTS OF COMPUTER SCIENCE ENGINEERING & INFORMATION TECHNOLOGY

## IEEE WEEK CELEBRATION ORGANIZED

IEEE Computer Society & IEEE Microwave Theory and Techniques-Student Branch Chapter of SKIT, Jaipur in association with IEEE Computer Society Chapter- Delhi Section and IEEE Rajasthan Subsection celebrated IEEE day from 3 to 8 October, 2022. On this occasion, several activities like poster making competition, technical quiz competition and blog writing contest were held. An expert talk on the topic 'Basics of RFID with Time Modulated Pattern Array Synthesis using Evolutionary Approach' was also delivered by Dr. Gopi Ram, NIT Warangal. Two-day hands-on workshop on 'Internet of Things' was organized in association with 'Seldom India'. The valedictory ceremony was graced by Dr. Sanjeev Yadav, Vice Chair; Dr. Sandeep Vyas, Secretary, IEEE Rajasthan Subsection; Mr. Kartvya Jain, Founder & CEO of 'Seldom India'; Dr. Mukesh Kumar Gupta, HOD-CS, SKIT; Dr. Mukesh Arora, HOD-ECE, SKIT; Dr. Anil Choudhary, HOD-IT and Dr. Praveen Kumar Jain. The chief coordinators of the event were Dr. Nilam Choudhary and Dr. Shubhi Jain; while the coordinators were Dr. Sarabjit Singh, Dr. Yogendra Gupta and Priyanka Sharma.

## FDP ON 'PYTHON 3.4.3' ORGANIZED

Faculty Development Program on 'PYTHON 3.4.3' was organized from 8 to 12 August, 2022. The program intended to introduce the participants with basics of Python. More than 80 participants participated in the FDP. Eminent speakers from academia shared their technical knowledge with the participants. The coordinators of the event were Dr. Sunita Gupta and Ms. Nidhi Srivastav.



Rishabh Kumar Kanther  
2nd Sem, Artificial Intelligence

## BOOKS PUBLISHED

- Title : Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT  
Editors : Valentina E. Balas, G. R. Sinha, Basant Agarwal, Tarun Kumar, Sharma, Pankaj Dadheech, Mehul Mahrishi  
Publisher : Springer Cham, Switzerland, Denmark.
- Title : An Interdisciplinary Approach in the Post-COVID-19 Pandemic Era (Series: Infectious Diseases and Microbiology)  
Editors : Digvijay Pandey, Binay Kumar Pandey, Nidhi Sindhwani, Rohit Anand, Vinay Kumar Nassa, Pankaj Dadheech  
Publisher : Nova Science Publishers, Newyork, United States
- Title : IoT: Understanding the Fundamentals, Operations and Applications  
Editors : Pankaj Dadheech, Sanwta Ram Dogiwal  
Publisher : AGPH Books (Academic Guru Publishing House), India
- Title : Big Data Analytics  
Editors : Pundru Chandra Shaker Reddy, T. Kamaleshwar, B. Padmaja, Pankaj Dadheech  
Publisher : Pinnacle EDU CARE, India

## BOOK CHAPTERS PUBLISHED

- BOOK : Artificial Intelligence on Medical Data. Lecture Notes in Computational Vision and Biomechanics Book Series (LNCVB)  
AUTHOR/S : Harinder Singh, Binay Kumar Pandey, Shaji George, Digvijay Pandey, Rohit Anand, Nidhi Sindhwani & Pankaj Dadheech  
BOOK CHAPTER : Effective Overview of Different ML Models used for Prediction of COVID-19 Patients  
PUBLISHER : Springer, Singapore
- BOOK : Artificial Intelligence on Medical Data. Lecture Notes in Computational Vision and Biomechanics Book Series (LNCVB)  
AUTHOR/S : Binay Kumar Pandey, Digvijay Pandey, Vinay Kumar Nassa, Shaji George, Bashiru Aremu, Pankaj Dadeech & Ankur Gupta  
BOOK CHAPTER : Effective and Secure Transmission of Health Information using Advanced Morphological Component Analysis and Image Hiding  
PUBLISHER : Springer, Singapore
- BOOK : Aiding Forensic Investigation through Deep Learning and Machine Learning Frameworks  
AUTHOR/S : Ramesh P., Dankan V., Kumaraswamy S., Pankaj Dadheech, Ansuman Samal  
BOOK CHAPTER : IoT-Deep Learning-Based Detection of Cyber Security Threats  
PUBLISHER : IGI Global
- BOOK : Aiding Forensic Investigation through Deep Learning and Machine Learning Frameworks  
AUTHOR/S : Dankan V., Puneeth B. S., Shekhar R., Pankaj Dadheech, Thangadurai N.  
BOOK CHAPTER : Deep Learning Models for Cyber Security in IoT Networks  
PUBLISHER : IGI Global

BOOK : An Interdisciplinary Approach in the Post- Covid-19 Pandemic Era( Series: Infectious Diseases and Microbiology)  
AUTHOR/S : Peter Ngulube, Binay Kumar Pandey, Digvijay Pandey, Vinay Kumar Nassa, A. Shaji George, Mukesh Kumar Gupta and Pankaj Dadheech  
BOOK CHAPTER : Evaluation of the SARS-CoV-2 Omicron Variant's Features, Prospective Consequences, and Upcoming Prospects  
PUBLISHER : Nova Science Publishers

BOOK : An Interdisciplinary Approach in the Post- Covid-19 Pandemic Era( Series: Infectious Diseases and Microbiology)  
AUTHOR/S : Amalia Kusmalasari, Widya Karmila Sari Achmad, Rohana, Binay Kumar Pandey, Digvijay Pandey and Pankaj Dadheech  
BOOK CHAPTER : The Impact of Digital Transformation on Story Writing Skills in the COVID Era  
PUBLISHER : Nova Science Publishers

## FDPs ATTENDED

TITLE : Cyber Security Training for Educators  
DATE : 26 to 30 September, 2022 & 6 to 8 October, 2022  
ATTENDED BY : Abha Jain, Shalini Pathak, Loveleen Kumar, Sumit Kumar  
ORGANIZED BY : ICT Academy - Microsoft Philanthropy

TITLE : Python Programming  
DATE : 13 to 17 June, 2022  
ATTENDED BY : Mani Butwall, Kajal Mathur  
ORGANIZED BY : Infosys Campus Connect, Infosys Ltd.

TITLE : Java Programming  
DATE : 20 to 24 June, 2022  
ATTENDED BY : Naveen Jain, Mani Butwall  
ORGANIZED BY : Infosys Campus Connect, Infosys Ltd.

TITLE : Angular  
DATE : 27 June to 1 July, 2022  
ATTENDED BY : Priyanka Sharma, Rubal Deep Gill  
ORGANIZED BY : Infosys Campus Connect, Infosys Ltd.

TITLE : Artificial Intelligence  
DATE : 6 to 10 June, 2022  
ATTENDED BY : Kajal Mathur, Naveen Jain  
ORGANIZED BY : Infosys Campus Connect, Infosys Ltd.

TITLE : The Art of Effective Teaching in the Light of NEP  
DATE : 8 to 12 Aug, 2022  
ATTENDED BY : Rubal Deep Gill, Anjali Pandey, Harpreet Singh Gill  
ORGANIZED BY : SKIT, Jaipur.

TITLE : Python 3.4.3  
DATE : 8 to 12 August, 2022  
ATTENDED BY : Kajal Mathur, Naveen Jain, Priyanka Sharma, Rubal Deep Gill, Nikhar Bhatnagar, Priyanka, Anjali Pandey, Ruchika Khandelwal, Harpreet Singh Gill  
ORGANIZED BY : SKIT, Jaipur with course material provided by Spoken Tutorial Project, IIT Bombay.

TITLE : Computer Vision and Natural Language Processing  
DATE : 8 to 18 August, 2022

ATTENDED BY : Harpreet Singh Gill, Rubal Deep Gill, Anjali Pandey, Priyanka Sharma, Nikhar Bhatnagar  
ORGANIZED BY : Easwari Engineering College, Ramapuram( Chennai).

TITLE : Python  
DATE : 17 to 21 October, 2022  
ATTENDED BY : Priyanka Sharma, Naveen Jain  
ORGANIZED BY : Infosys Campus Connect, Infosys Ltd.

TITLE : The Art of Effective Teaching in the light of NEP  
DATE : 13 to 17 September, 2022  
ATTENDED BY : Naveen Jain  
ORGANIZED BY : SKIT, Jaipur

## WORKSHOPS ATTENDED

TITLE : Intellectual Property Rights (IPRs) and IP Management for Start-up  
DATE : 26 August, 2022  
ATTENDED BY : Pankaj Dadheech  
ORGANIZED BY : IPR Cell, SKIT, Jaipur

TITLE : Emerging Technologies  
DATE : 21 to 23 September, 2022  
ATTENDED BY : Pankaj Dadheech  
ORGANIZED BY : IE(I) Students' Chapter, Dept. of ECE, SKIT, Jaipur

TITLE : Nucleus to Universe: Emerging Future in STEM  
DATE : 4 to 5 August, 2022  
ATTENDED BY : Naveen Jain  
ORGANIZED BY : Govt Women Engineering college, Ajmer

TITLE : The Art of Creating Wealth  
DATE : 15 to 25 July, 2022  
ATTENDED BY : Naveen Jain  
ORGANIZED BY : Coach BSR

TITLE : Smart India Hackathon  
DATE : 25 to 26 August, 2022  
ATTENDED BY : Naveen Jain  
ORGANIZED BY : MHRD(AICTE)

## PATENTS PUBLISHED

TITLE : Machine Learning based Methodology for Database Migration in Cloud Computing Environment  
NAME : Priyanka Sharma  
PUBLICATION DATE : 16 September, 2022

TITLE : Accident Notifying Device for Two-Wheeler Vehicles  
NAME : Pankaj Dadheech  
PUBLICATION DATE : 23 September, 2022

## STTP ATTENDED

TITLE : Essential Industrial Chemistry for Engineers  
DATE : 5 to 9 September, 2022  
ATTENDED BY : Pankaj Dadheech, S.R. Dogiwal  
ORGANIZED BY : NITTR, Chandigarh and Remote Centre at SKIT, Jaipur

## SESSION CHAIRED

SESSION ON : Sustainable Information and Optimization at International Conference on Sustainable Computing and Management (SUSCOM-2022)  
CHAIR BY : Pankaj Dadheech  
DATE & VENUE : 6 to 8 August, 2022 at Miyan Research Institute of the International University of Business Agriculture and Technology (IUBAT), Dhaka, Bangladesh

SESSION ON : Big Data and Data Analytics at 2022 IEEE World Conference on Applied Intelligence and Computing (AIC 2022)  
CHAIR BY : Pankaj Dadheech  
DATE & VENUE : 17 to 19 June, 2022 at Rajkiya Engineering College, Sonbhadra and Soft Computing Research Society

## EXPERT TALK DELIVERED

TITLE : Mobile App Security and its Problem Intervention Strategies  
DATE & VENUE : 6 October, 2022 at Software Technology Parks of India (STPI), Jaipur  
DELIVERED BY : Pankaj Dadheech

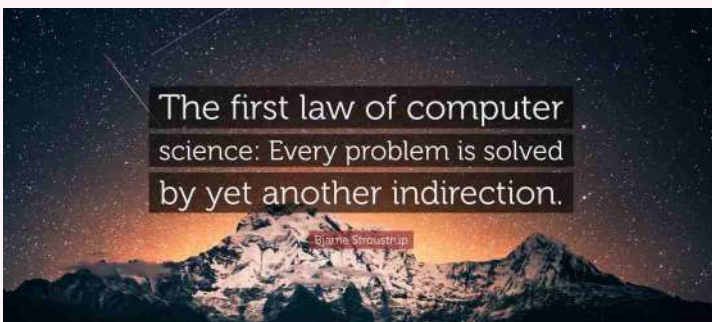
TITLE : Emerging Research Trends in Computer Science  
DATE & VENUE : 27 July to 2 August, 2022 at Amity University, Madhya Pradesh  
DELIVERED BY : Pankaj Dadheech

TITLE : Recent Trends in Cyber Security and Machine Learning  
DATE & VENUE : 1 to 5 June, 2022. Department of CSE, Shri Vishnu Engineering College for Women (Autonomous), Bhimavaram, W.G. District, AP, India  
DELIVERED BY : Pankaj Dadheech

## GUEST EDITORS IN SPECIAL ISSUES OF JOURNALS

SPECIAL ISSUE : AI-Enabled Internet of Everything (IoE) in Next-Generation Wireless Sensor Networks  
JOURNAL : Journal of Sensors, Hindawi  
GUEST EDITOR/S : Linesh Raja, Pankaj Dadheech, Vijander Singh

SPECIAL ISSUE : Current Research Trends in Secure Computer Vision, IoT and Machine Learning  
JOURNAL : Journal of Discrete Mathematical Sciences & Cryptography (JDMSC)  
GUEST EDITOR/S : Dinesh Goyal, Pankaj Dadheech, Anil Kumar



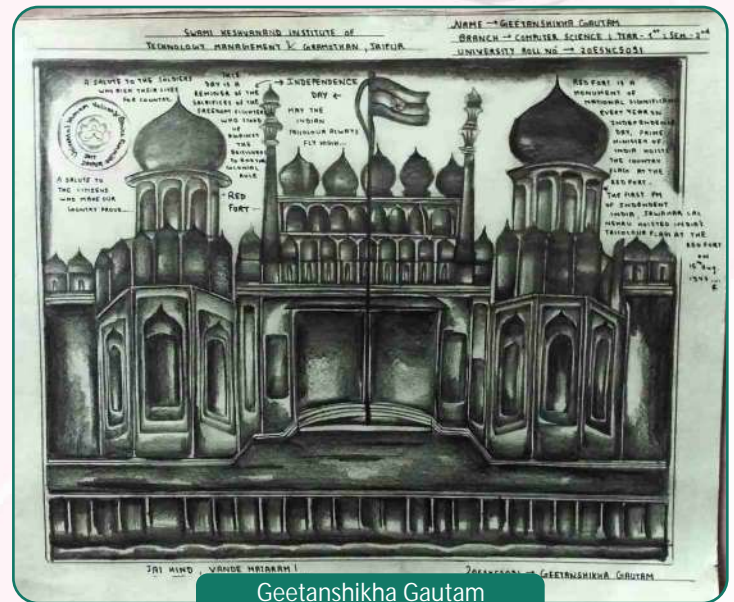
## EXPERT TALK ATTENDED

TITLE : Training and Placement Officers Meet  
DATE : 9 September, 2022  
ATTENDED BY : Naveen Jain  
ORGANIZED BY : IBS Business School

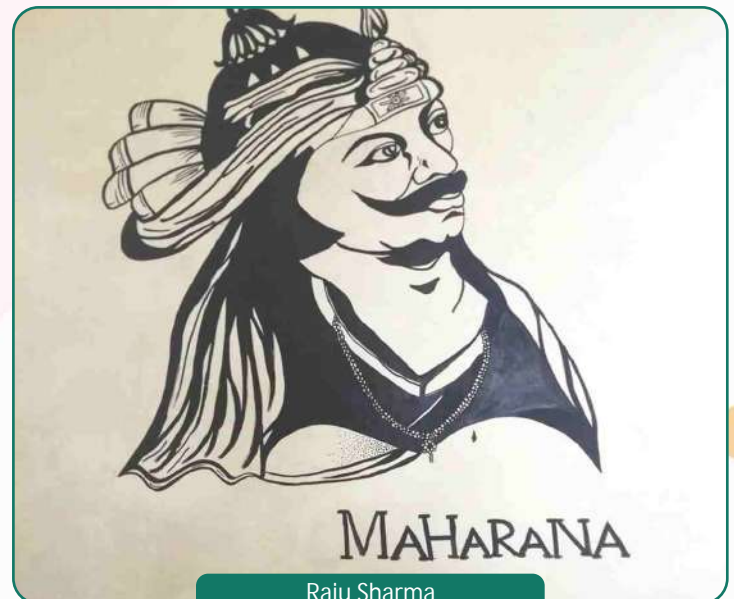
TITLE : Converting Innovation into Start up  
DATE : 22 August, 2022  
ATTENDED BY : Naveen Jain  
ORGANIZED BY : SKIT, Jaipur

## FACULTY ACHIEVEMENT

Dr. Nilam Choudhary has become a senior member of IEEE and also elected as an EXECOM member of IEEE (Rajasthan Subsection). She has also been nominated as member of Board of Studies at School of Engineering & Technology, Sangam University. Dr. Nilam Choudhary was awarded Global Femina Excellence Award for outstanding contribution in Research and Innovation by Dr. Kalam International Foundations.



Geetanshikha Gautam  
5th Sem, Computer Science



Raju Sharma  
7th Sem, Electrical Engineering

# DEPARTMENT OF MECHANICAL ENGINEERING

## BOOK CHAPTER PUBLISHED

BOOK : Emerging Trends in Energy Conversion and Thermo-Fluid Systems  
AUTHOR/S : Chandan Kumar, Kunj bihari Rana, Suhaib Ansari, Raju Malani  
BOOK CHAPTER : Effect of D-DEE-E Blend and various Operating Parameters on CI Engine Performance: An Experimental Study  
PUBLISHER: Springer

## FDPs ATTENDED

TITLE : The Art of Effective Teaching in the Light of NEP  
DATE : 13 to 17 September, 2022  
ATTENDED BY : Chandan Kumar, Vinay Singh Marwal  
ORGANIZED BY : Department of English, SKIT, Jaipur

TITLE : Python 3.4.3  
DATE : 8 to 12 August, 2022  
ATTENDED BY : Chandan Kumar  
ORGANIZED BY : Dept. of CSE, SKIT in collaboration with Spoken Tutorial (IIT-Bombay)

TITLE : Cyber Security & Ethical Hacking  
DATE : 25 to 29 July, 2022  
ATTENDED BY : Chandan Kumar  
ORGANIZED BY : Department of CSE, Chandigarh University, Gharuan, Mohali, Punjab

TITLE : Research, Publication and Patent in Humanities and Sciences  
DATE : 22 to 30 August, 2022  
ATTENDED BY : Vinay Singh Marwal  
ORGANIZED BY : Faculty of Engineering and Technology, Ramapuram Campus, Chennai

चलो आओ, बैठो, कुछ बात करते हैं,  
तुम्हारे शहर में फिर से एक मुलाकात करते हैं...!!  
तुम सुनाना किस्से अपनी हसीं जिंदगी के,,,  
हम तो बस उलफ़त की बात करते हैं.....!!!!

Raju Sharma  
7th Sem, Electrical Engineering



# DEPARTMENT OF CIVIL ENGINEERING

## SITE VISIT TO RING ROAD, JAIPUR ORGANIZED

The Department under the aegis of 'Indian Concrete Institute' (ICI Student Chapter) organized a site visit for the II year students to Ring Road, Jaipur on 13 September, 2022 with an objective to provide exposure about different aspects of site inspection, traffic management, understanding road signs and road markings etc. Mr. Nishant Sachdeva & Dr. Abhishek Jain were the faculty coordinators of the event.



## EXPERT TALK ON 'FIELD ASPECTS OF HIGHWAY GEOMETRICS'

The Department organized an expert talk for the IV year students on 'Field Aspects of Highway Geometrics' on 13 September, 2022. The expert of the event was Er. Anindya Chawla, MD, Techmodex Consultants Private Limited. He discussed about different concepts of highway geometrics. The technical aspects of highway drawings were also explained by the speaker. Mr. Nishant Sachdeva and Dr. Abhishek Jain were the faculty coordinators of the event.



## ENGINEERS' DAY CELEBRATED

ICI – Student Chapter and IGBC Student Chapter celebrated Engineers' Day in the memory of Dr. M. Visvesvaraya in association with Ultra Tech Cement Pvt. India Ltd. on 15 September, 2022. Prof. B.

L. Sharma of the dept. of Civil Engineering welcomed the expert. Er. Chandan, Technical Expert, Ultratech Cement discussed about different construction products and Technical aspects of different construction works. The event was graced by Er. Mahesh Singhal (Chairman-ICI RSC), Er. Sunil Goyal (Owner – Primetech Design Consultants), Er. Nitin Gupta (Executive Engineer – JDA), Er. Anju Harsh (Executive Engineer – PHED) and Er. Manish Garg (Dy Manager – Ultratech Cement Ltd.). Mr. Nishant Sachdeva and Dr. Abhishek Jain were the faculty coordinators of the event.

## INDUSTRIAL VISIT TO GALTAJI, JAIPUR ORGANIZED

ICI – Student Chapter organized an industrial visit to Galtaji, Jaipur on October 16, 2022 with an objective to make the students aware about kunds and bawris which are the oldest water reservoir system of Rajasthan. Ms. Archana Das, Architect at VSPB Associates introduced the students about all the kunds and bawris of Galtaji, the history of the temples and the present condition of the water reservoir systems of Rajasthan. Besides this, the process of repair and rehabilitation of old temples was discussed by Dr. Abhishek Jain. Mr. Nishant Sachdeva and Dr. Abhishek Jain were the faculty coordinators of the event.



## WORKSHOP ON 'ANALYSIS AND DESIGN OF RC BUILDINGS AND FOUNDATIONS USING SOFTWARE' ORGANIZED.

A 5-days student workshop on 'Analysis and Design of RC Buildings and Foundations using Software' was organized by the department in collaboration with Indian Concrete Institute (ICI) from 6 to 10 September, 2022. The participants were educated about the most common software tools used to design buildings and foundations. Dr. Bharathi M. and Dr. Sunita Tolani were the faculty coordinators of the event.



## FDPs ATTENDED

TITLE : Self Sustainable Buildings  
DATE : 12 to 16 September, 2022  
ATTENDED BY : Pooja Jain  
ORGANIZED BY : Presidency University, Bengaluru

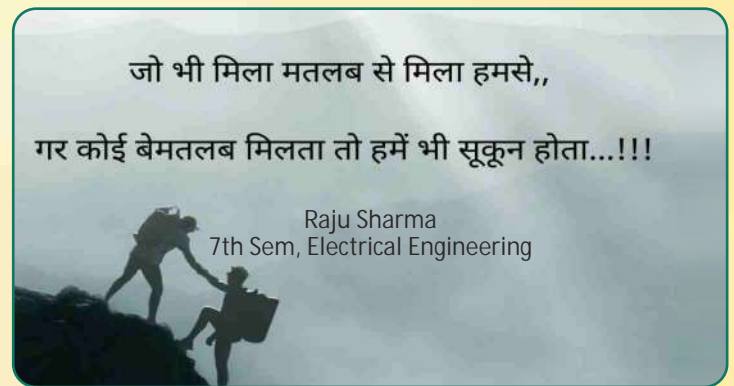
TITLE : Applications of AR and VR in Architecture, Transportation and Construction  
DATE : 5 to 16 September, 2022  
ATTENDED BY : Jetender Babulal Jangid, Prahlad Kumar  
ORGANIZED BY : Poornima Institute of Engineering & Technology, Jaipur

TITLE : The Art of Effective Teaching in Light of NEP  
DATE : 13 to 17 September, 2022  
ATTENDED BY : Jetender Babulal Jangid, Ankur Mishra, Akash Johari, Vikas Vyas  
ORGANIZED BY : Department of English, SKIT M & G, Jaipur

TITLE : Building Resilience at Work place  
DATE : 9 to 12 August, 2022  
ATTENDED BY : Gaurav Gupta  
ORGANIZED BY : Amity School of Engineering & Technology, Amity University, Mumbai

## NPTTEL / MOOKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : Geotechnical Engineering Laboratory  
COMPLETED BY : Prahlad Kumar  
DURATION & CATEGORY : July to August 2022 (4 -week).  
Successfully completed



# DEPARTMENT OF ELECTRONICS & COMMUNICATION

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

Lecture Series on 'Recent Trends in Electronics and Communication Engineering' was organized on 10 October, 2022. The Chief Guest was Prof. Manish Tiwari, Manipal University, Jaipur and the Guest of Honour was Dr. Saurab, IIT, Jammu. Dr. Kushmanda Saurab took an expert session on the topic 'Design of Circularly Polarized Antennas for Microwave and Millimeter Wave Application'. The event was coordinated by Ms. Kiran Rathi, Dr. Monica Mathur, Ms. Suman Sharma, Dr. Vikas Pathak, Ms. Namrata Saxena and Dinesh Kumar. The student coordinators were Umang Sharma, Utkarsh Khandelwal and Priya Gupta. About 150 students from III and V semester of ECE attended the event



## STUDENT ORIENTED LECTURE SERIES ON 'EMERGING TECHNOLOGY' ORGANIZED

An online lecture series on 'Emerging Technology' was organized by the Institution of Engineers (India) Student Chapter, Department of Electronics and Communication at SKIT from 21 to 23 September, 2022. Mr. Prashant Joshi from Govt. Polytechnic College, Barmer; Mr. Vipin Jain, Dr. Mehul Mahrishi, Mr. Naveen Jain, and Dr. Sushila Vishnoi from the Dept. of Information Technology, SKIT delivered expert lectures during the three day programme .



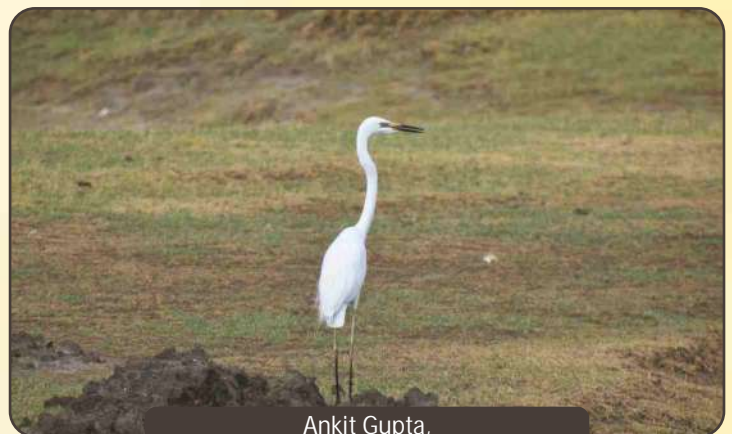
The students were educated about the advanced tools, strategies and techniques widely used in the emerging technology.

## IN- HOUSE TRAINING FOR III SEM STUDENTS ORGANIZED

A 15-day in-house training was organized by the Department of ECE as a part of RTU curriculum from 16 to 31 July, 2022 with an aim to improve and polish students' skills while also imparting the knowledge of new skills tailored to the need of the industry. In addition to that, students were provided exposure to core electronics and communication field. Sessions on various topics such as 'Training & Placement Awareness Program', 'Basics of Satellite Communication', 'Virtualization of Electronic Meters', 'Incubation, Innovation and Entrepreneurship', 'VLSI Chip Designing Process', 'Awareness about the Institute' and "Department-Vision, Mission, Quality Policy, PO, PEO, PSO, CO" were discussed by experts. Students were also given hands-on experience in their core field. The coordinators of the event were Dr. Vikas Pathak, Ms. Rajni Idiwai and Ms. Priyanka Sharma.

## ORIENTATION PROGRAM ORGANIZED

The orientation programme for the 2nd year ECE students was organized on 31 August, 2022 with an aim to enlighten the students with the future scope in Computer Science Engineering and also to introduce them with the faculty of ECE branch. Prof. Mukesh Arora, HOD and Dr Praveen Kumar Jain, Dy. HOD motivated the students with their inspiring words. Dr. Rukhsar Zafar briefed the students about advantages of digital library, e journals, available books, DSPACE acknowledgement and DSPACE availability for notes. Guidance related to well-developed research centre for PG students and information about the memberships of 'Optica Society' was



Ankit Gupta,  
3rd Sem, Computer Science Engineering

provided by Dr. Monika mathur. Dr. Swati Arora discussed about extra-curricular activities. Placement awareness and career counselling was done by Mr. Lalit Kumar Lata. He also informed the students about the additional benefits of 'Co-Cubes' exam in placement. Prof. Sangeeta Vyas, Head, Office of Student Affairs emphasized upon the mental and physical fitness of students. At the end, GATE awareness session was conducted by Mr. Sunil Lakhawat and Mr. Rahul Pandey.

## PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

- TITLE : Low Pass Filter using Metamaterial  
AUTHOR/S : Harshal Nigam  
PROCEEDING : Materials Today Proceedings, Elsevier, ISSN: 2214-7853, July 2022
- TITLE : A Paper on Microstrip Patch Antenna for 5G Applications  
AUTHOR/S : Jyoti Yadav, Suman Sharma, Mukesh Arora  
PROCEEDING : Materials Today Proceedings, Elsevier, ISSN: 2214-7853, July 2022
- TITLE : Pentagonal-shaped Slot Two Port MIMO Antenna for Sub 6 GHz 5G Wireless Applications  
AUTHOR/S : Suman Sharma, Mukesh Kumar  
PROCEEDING : Materials Today Proceedings, Elsevier, ISSN: 2214-7853, July 2022
- TITLE : Approximate Computing: Evolutionary Methods for Functional Approximation of Digital Circuits  
AUTHOR/S : Pooja Choudhary, Lava Bhargava, Virendra Singh, Ashok Kumar Suhag  
PROCEEDING : Materials Today Proceedings, Elsevier, ISSN: 2214-7853, July 2022
- TITLE : Optical Gain Analysis of GaInP/AlGaInP Nanoscale Heterostructure for Applications in Visible Light Emission  
AUTHOR/S : Jayprakash Vijay, Kulwant Singh, A.K. Singh, Amit] Rathi  
PROCEEDING : Materials Today Proceedings, Elsevier, ISSN: 2214-7853, July 2022
- TITLE : Silicon Nitride based Photonic Biosensor for Analyzing Blood Diseases  
AUTHOR/S : Ankit Agarwal, Nitesh Mudgal, Ankur Saharia, Ghanshyam Singh, S.K. Bhatnagar  
PROCEEDING : Materials Today Proceedings, Elsevier, ISSN: 2214-7853, July 2022
- TITLE : Influence of High-k Dielectric Material on the Electrical Performance of a-IGZO Thin Film Transistor  
AUTHOR/S : Neeraj Jain, Shashi Kant Sharma, Renu Kumawat, Abhinandan Jain, Sunil Lakhawat  
PROCEEDING : Materials Today Proceedings, Elsevier, ISSN: 2214-7853, July 2022
- TITLE : Effect of Dielectric Thickness on MgZnO Thin Film Transistor Characteristics  
AUTHOR/S : Manju Choudhary, Lava Bhargava, C. Periasamy

- PROCEEDING : Materials Today Proceedings, Elsevier, ISSN: 2214-7853, July 2022
- TITLE : Parametric Data-driven Optimization Approach on Plasmonic based Ring Resonator  
AUTHOR/S : Priyanka Sharma, Rukhsar Zafar, Rahul Pandey  
PROCEEDING : Materials Today Proceedings, Elsevier, ISSN: 2214-7853, July 2022
- TITLE : Effects of Channel length and Gate Dielectric Material on Electrical Properties of an IGZO TFT  
AUTHOR/S : Archana Jain, Vivek Kumar Jain, Lalit Kumar Lata, Abhinandan Jain  
PROCEEDING : Materials Today Proceedings, Elsevier, ISSN: 2214-7853, July 2022
- TITLE : Investigation of Photocurrent Efficiency of Cs<sub>2</sub>TiBr<sub>6</sub> Double Perovskite Solar Cell  
AUTHOR/S : Vivek Bhojak, Deepak Bhatia, Praveen K Jain  
PROCEEDING : Materials Today Proceedings, Elsevier, ISSN: 2214-7853, July 2022
- TITLE : Plasmonics based Refractive Index Sensor based on Square Ring Resonator  
AUTHOR/S : Yazusha Sharma, Rukhsar Zafar  
PROCEEDING : Materials Today Proceedings, Elsevier, ISSN: 2214-7853, July 2022

## FDPs ATTENDED

- TITLE : Essential Industrial Chemistry for Engineers  
DATE : 5 to 9 September, 2022  
ATTENDED BY : Harshal Nigam, Kiran Rathi, Pooja Choudhary, Manju Choudhary, Shubhi Jain, Monika Mathur, Neeraj Jain  
ORGANIZED BY : NITTR, Chandigarh
- TITLE : Python  
DATE : 8 to 12 August, 2022  
ATTENDED BY : Harshal Nigam  
ORGANIZED BY : SKIT & Spoken Tutorial, IIT Bombay
- TITLE : Modelling, Simulation and Measurement of High Frequency Antennas for Advanced Wireless Communication  
DATE : 1 to 5 August, 2022  
ATTENDED BY : Harshal Nigam, Shubhi Jain  
ORGANIZED BY : Entuple Technologies
- TITLE : Smart Materials Processing and Applications  
DATE : 25 to 29 July, 2022  
ATTENDED BY : Abhinandan Jain, Neeraj Jain  
ORGANIZED BY : NITTR, Chandigarh
- TITLE : Energy Harvesting & Storage Materials & Devices  
DATE : 12 to 16 September, 2022  
ATTENDED BY : Abhinandan Jain  
ORGANIZED BY : NITTR, Chandigarh
- TITLE : The Art of Effective Teaching in the Light of NEP  
DATE : 13 to 17 September, 2022

ATTENDED BY : Neeraj Jain, Shubhi Jain, Manju Choudhary  
ORGANIZED BY : SKIT, Jaipur

TITLE : Advanced Optimization Techniques and Hands-on with MATLAB/SCILAB (AOT 2022)

DATE : 8 to 19 August, 2022

ATTENDED BY : Rajni Idwal, Dr. Vikas Pathak, Manju Choudhary

ORGANIZED BY : Ministry of Electronics and Information Technology (MeitY) Electronics & ICT

TITLE : Python 3.4.3

DATE : 8 to 12 August, 2022

ATTENDED BY : Rajni Idwal, Shubhi Jain, Priyanka Sharma

ORGANIZED BY : SKIT, Jaipur

TITLE : Finance for Non-Finance Professionals

DATE : 1 to 5 August, 2022

ATTENDED BY : Shubhi Jain

ORGANIZED BY : Department of Management Studies, MNIT, Jaipur,

TITLE : From Zero to Chip Design Workshop using Open Power cores

DATE : 22 August to 2 September, 2022

ATTENDED BY : Vikas Pathak

ORGANIZED BY : Electronics & ICT Academy, MNIT, Jaipur

TITLE : Teaching Learning for Accreditation in Technical Education

DATE : 5 to 9 September, 2022

ATTENDED BY : Rukhsar Zafar

ORGANIZED BY : NITTR, Chandigarh

TITLE : Recent Trends in Robotics

DATE : 4 to 15 July, 2022

ATTENDED BY : Ankit Agrawal

ORGANIZED BY : E & ICT, IIT Roorkee; MNIT Jaipur; NIT Patna, & PDPM IIITDM, Jabalpur

TITLE : MATLAB Programming

DATE : 22 August to 2 September, 2022

ATTENDED BY : Ankit Agrawal

ORGANIZED BY : E&ICT, MNIT Jaipur, NIT Patna, & PDPM IIITDM, Jabalpur

TITLE : Designing and Modelling of IoT, AI and ML System

DATE : 1 to 5 August, 2022

ATTENDED BY : Ankit Agrawal, Priyanka Sharma

ORGANIZED BY : AICTE, ATAL Academy, Arm Education and ST Microelectronics

## Ph.D. AWARDED

THESIS TITLE : Hardware Implementation of Digital Filtering Techniques for Genomic Sequence Analysis

Ph.D. AWARDED TO : Vikas Pathak

GUIDED BY : Dr. S. J. Nanda & Dr. Amit M. Joshi

INSTITUTE : MNIT, Jaipur

YEAR : 2022

## SESSION CHAIRED

SESSION ON : Advanced Computing Techniques

CHAIRD BY : Vikas Pathak

DATE & VENUE : July 6, 2022 at International Conference on Paradigms of Communication, Computing and data Sciences (PCCDS- 2022), MNIT, Jaipur

## COURSES MENTORED

Mentor/s Course/s

Rahul Pandey : Digital Circuits

Namarta Saxena : Introduction to Semiconductor Devices/ Semiconductor Devices and Circuits

Kiran Rathi : Control Engineering

Harshal Nigam : Microwave Engineering

Manju Choudhary : Introduction to Cyber Security

Ankit Agarwal : Electromagnetic Theory

Vikas Pathak : Computer Architecture and Organization

Abhinandan Jain : Real-Time Digital Signal Processing

Pallav Rawal : Basic Electric Circuit

## NPTTEL / MOOKIT / IITBX / SWAYAM COURSES COMPLETED

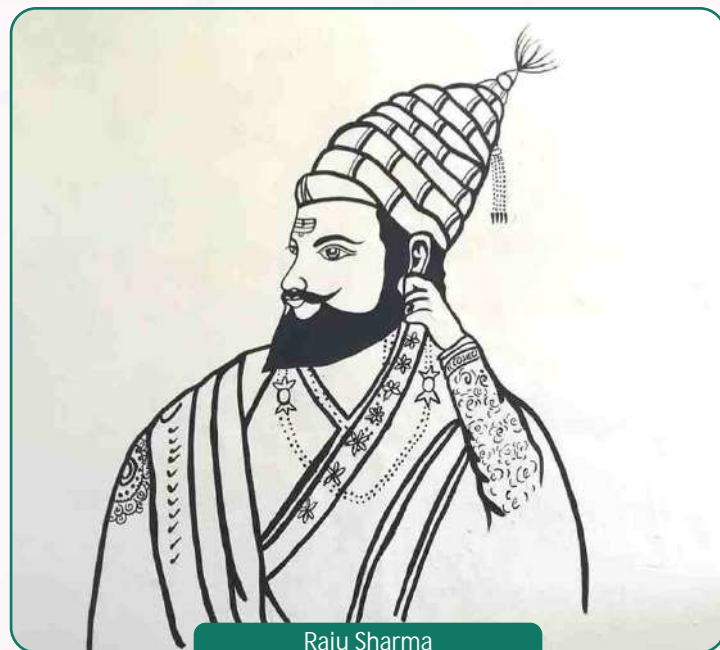
COURSE/ TOPIC : System Design Through Verilog

COMPLETED BY : Vikas Pathak

DURATION & CATEGORY : July to September, 2022 (8- week).  
Awarded Elite + Silver Certificate

## FACULTY ACHIEVEMENT

The project idea proposal of Ms. Pooja Choudhary on "IoT- AI based Smart Irrigation System in Agriculture Sector" was approved by 2nd PMAC Meeting of MSME Innovative Scheme. It was announced by Hon'ble Prime Minister on the occasion of International MSME Day at Vigyan Bhawan on 30 June, 2022.



Raju Sharma  
7th Sem, Electrical Engineering



# DEPARTMENT OF ELECTRICAL ENGINEERING

## SEMINAR ON 'ROOTS & NATION' ORGANIZED

IEI Student Chapter (EE) of SKIT, Jaipur organized a seminar on the topic 'Roots & Nation' on 17 October, 2022. The honoured guest of the seminar was (Col.) Dr. Devanand Singh. Dr. Singh threw light on the golden history of the nation and motivated the students to work like Subhash Chandra Bose. He also talked about his journey, hardships and his achievements. At the end, Dr. Sarfaraz Nawaz, Head, Electrical Engineering Department presented a vote of thanks.

The seminar was coordinated by Mr. Jinendra Rahul and Mr. Jitendra Singh.



## WORKSHOP ON 'MODELING, SIMULATION AND OPTIMIZATION TOOLS FOR ELECTRICAL ENGINEERING' ORGANIZED

A three-day workshop on 'Modeling, Simulation and Optimization Tools for Electrical Engineering' was organized from 8 to 10 August, 2022. The objective was to enhance the technical skills of the faculty and the research scholars. The chief guest of the event was Dr. Ajay Kumar Bansal, Professor, School of Engr. & Technology, Central University of Haryana, Mahendergarh. Prof. Akash Saxena, Dr. Tanuj Rawat, Dr. Ankit Vijayvargiya, Dr. Sarfaraz Nawaz, Dr. Dhanraj Chitara, Dr. Pooja Jain, Dr. Suman Sharma, and Dr. Virendra Sangtani of EE department delivered talks on varied topics during this workshop.



The workshop was coordinated by Dr. Sarfaraz Nawaz, Dr. Jyotsna Singh & Dr. Tanuj Rawat.

## INDUSTRIAL VISIT FOR V SEMESTER STUDENTS TO 220 KV GSS, GONER

An industrial visit was organized for V semester students under Industrial Interaction Program on October 7, 2022 under the supervision of Mr. Tarun Naruka, Mr. Deepak Saini, Mr. Ajay Bhardwaj, Dr. Tanuj Rawat, Mr. Bharat Modi, & Mr. Garvit Gupta. The objective was to provide the students an elementary idea of equipment installed at 220 KV GSS, Goner.



## INDUCTION PROGRAM FOR III SEMESTER STUDENTS ORGANIZED

A one-week induction program was organized for III semester students from 25 to 30 July, 2022 with an objective to welcome the students and provide them the necessary information about the work culture of the department. Along with this, some important information about outcome-based learning, job opportunities in electrical sector, importance of GATE examination, placement activities, introduction of IE Student Chapter was also given to the students. Some technical sessions on project seminars and virtual labs were also organized for the students. The program was coordinated by Mr. Vivek Sharma and Dr. Ankit Vijayvargiya.



## INDUSTRIAL VISIT FOR III SEMESTER STUDENTS TO 132 KV GAS INSULATED GRID SUBSTATION AT SMS STADIUM

An industrial visit was organized for III semester students on 28 July, 2022 with an objective to provide the students an elementary idea of equipment installed at 132 KV Gas Insulated Grid Substation at SMS Stadium, Jaipur. It enhanced the knowledge of the students about



electrical industry by providing an exposure to both practical and theoretical aspects. The visit was coordinated by Mr. Vivek Sharma and Dr. Ankit Vijayvargiya.

## ALUMNI INTERACTION WITH MR. SHOBHIT AHUJA ORGANIZED



The department conducted an expert lecture on 'Role of Power Grid in Indian Power Sector' in virtual mode at J.C.Bose Seminar Hall. The speaker was Mr. Shobhit Ahuja (Alumnus 2013 batch), currently working as an engineer at RTAMC (Regional Transmission Asset Management Centre) power grid. Mr. Shobhit Ahuja discussed about generation of electricity and the types of transmission lines like HVAC (High Voltage Alternate Current) and HVDC (High Voltage Direct Current) lines and the voltage at which transmission is done. The programme was coordinated by Mr. Vikas Mahala, Dy. Head of EE dept. and Mr. Vivek Sharma, Asst. Prof., EE department.

## ALUMNI INTERACTION WITH MS. NAGMA PRAVEEN AND MR. RAHUL ORGANIZED



Alumni Association of SKIT organized an Alumni Interaction Programme on the topic 'Focus on Your Goal' for the 2nd year

students on 10 September, 2022. The session started with a welcome address by Mr. Vivek Sharma, Alumni Co-coordinator. The panelists of this session were Ms. Nagma Parveen (2016 Batch), selected in 'RAS Prelims 2022' and Mr. Rahul (2016 Batch), selected in 'Computer Instructor Exam 2022'. Ms. Nagma Parveen discussed about various career choices after engineering and explained the importance of time management, positive attitude, and strategies to deal with failures. Mr. Rahul emphasized on setting of realistic goals, and advised the students to acknowledge the learning curve as it helps to improve productivity of learners over time.

## PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE : Signal Processing Technique based Transmission Line Protection with and without Penetration of Wind Energy  
 AUTHOR/S : Abhishek Gupta and Ramesh Kumar Pachar  
 PROCEEDING : Proceedings of the IEEE International Conference on Intelligent Controller and Computing for Smart Power (ICICSP- 2022), 21-23 July 2022, (SNIST), Hyderabad, India.

TITLE : Variational Inference Data-driven Gait Model for Biped Trajectory Generation  
 AUTHOR/S : Bharat Singh, Suchit Patel, Ankit Vijayvargiya, Rajesh Kumar  
 PROCEEDING : Proceedings of the IEEE IAS Global Conference on Emerging Technologies (GlobConET)

TITLE : Data Driven Temperature Estimation of PMSM with Regression Models  
 AUTHOR/S : Parul Sharma, Ankit Vijayvargiya, Bharat Singh, Rajesh Kumar  
 PROCEEDING : Proceedings of the International Conference on Power, Control and Computing Technologies

## FDPs ATTENDED

TITLE : The Art of Effective Teaching in the Light of NEP  
 DATE : 13 to 17 September, 2022  
 ATTENDED BY : Abhishek Gupta, Vivek Sharma, Virendra Swaroop Sangtani  
 ORGANIZED BY : Department of English, SKIT, Jaipur

TITLE : Advanced Optimization Techniques and Hands-on with MATLAB/SCILAB (AOT 2022)  
 DATE : 8 to 19 August, 2022  
 ATTENDED BY : Ankit Vijayvargiya  
 ORGANIZED BY : MNIT, Jaipur

## WORKSHOPS ATTENDED

TITLE : Modeling, Simulation and Optimization Tools for Electrical Engineering  
 DATE : 8 to 10 August, 2022  
 ATTENDED BY : Abhishek Gupta, Vivek Sharma, Virendra Swaroop Sangtani  
 ORGANIZED BY : Department of EE, SKIT, Jaipur

TITLE : NeW IPR 2022 e- workshop  
DATE : 13 to 18 June, 2022  
ATTENDED BY : Ankit Vijayvargiya  
ORGANIZED BY : CSIR-IMMT, Bhubaneswar

## EXPERT TALK DELIVERED

TITLE : Introduction of Project Selection and Project Planning

DATE & VENUE : 18 to 30 July, 2022 at SKIT, Jaipur  
DELIVERED BY : Abhishek Gupta

TITLE : Introduction of Basic Electrical Engineering Laboratory Equipments

DATE & VENUE : 18 to 30 July, 2022 at SKIT, Jaipur  
DELIVERED BY : Vivek Sharma

TITLE : Scope and Exposure of Electrical Engineering Branch in Industry

DATE & VENUE : 18 to 30 July, 2022 at SKIT, Jaipur  
DELIVERED BY : Virendra Swaroop Sangtani

TITLE : Modeling, Simulation and Optimization Tools for Electrical Engineering

DATE & VENUE : 10 August, 2022 at SKIT, Jaipur  
DELIVERED BY : Virendra Swaroop Sangtani



Geetanshikha Gautam  
5th Sem-Computer Science

# DEPARTMENT OF BASIC SCIENCES & HUMANITIES

## DEPARTMENT OF ENGLISH

### FDP ON 'THE ART OF EFFECTIVE TEACHING IN THE LIGHT OF NEP' ORGANIZED

A one-week faculty development programme was conducted from 13 to 17 September, 2022 on the topic, 'The Art of Effective Teaching in the Light of NEP'. Dr. Sunita Mishra, Professor, University of Hyderabad, the key-note speaker of the FDP delivered her session on 'Multilingual Education in India and NEP', wherein she discussed the impact of English on Indian history and the effect of vernacularism on English language learning. Dr. Niraja Saraswat, Assistant Professor, MNIT, Jaipur conducted the second session on 'An Insight into Digital Transformation in Pedagogy' and the third session was taken by Ms. Sumayya Siddiqui, Assistant Professor, St. Xavier's College, Jaipur. Dr. C.G. Shyamala, Assistant Professor, Mercy College, Palakkad discussed on the topic 'Assessment and Evaluation of Students'. The closing session was delivered by Dr. Preeti Bhatt, Associate Professor, MNIT, Jaipur. The FDP was coordinated by Dr. Geetika Patni and Ms. Divya Mathur.

### BOOK CHAPTERS PUBLISHED

BOOK : Re-Mapping the Centre and the Periphery: Studies in Literature & Culture  
AUTHOR/S : Geetika Patni  
BOOK CHAPTER : Culture Reflects: Language and Literature  
PUBLISHER : Shanlax Publishers

BOOK : English Language Teaching: Past, Present and Future  
AUTHOR/S : Geetika Patni  
BOOK CHAPTER : Challenges and Ways in Learning English as a Foreign Language  
PUBLISHER : Shanlax Publishers

### PAPERS PRESENTED IN CONFERENCES

TITLE : What is Gender: Encountering Diverse Facets of the Gender Variable  
AUTHOR/S : Nidhi Sharma, Geetika Patni, Divya Mathur, Prince Dawar  
CONFERENCE : International Conference on Social Science, Arts, Business and Education, Dubai, UAE

TITLE : Trauma and Transnationalism in J.M. Coetzee's Slow Man  
AUTHOR/S : Sheeba Anjum  
CONFERENCE : International Conference on Advances in English

Language Studies, 14 to 15 October 2022,  
University of Engineering & Management, Jaipur

TITLE : None to Accompany Me: Tracing the Role of  
Isolation in J.M. Coetzee's Disgrace  
AUTHOR/S : Sheeba Anjum  
CONFERENCE : International Conference on Literary Legacy of  
Booker Prize Winners, 7 to 8 October, 2022,  
ELTAI, Jaipur Chapter

## PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE : What is Gender: Encountering Diverse Facets of  
the Gender Variable  
AUTHOR/S : Nidhi Sharma, Geetika Patni, Divya Mathur,  
Prince Dawar  
PROCEEDING : Proceedings of International Conference on  
Social Science, Arts, Business and Education  
(ICSSABE-2022) 3 October 2022, Dubai, UAE

## EXPERT TALK DELIVERED

TITLE : Building Resilience in Youth through Holistic  
Approach.  
DATE & VENUE : 1 October, 2022 at Dubai Institute of Design  
& Innovation, Dubai, UAE  
DELIVERED BY : Nidhi Sharma

TITLE : Positive Attitude: Positive Life  
DATE & VENUE : 28 August, 2022 at Central Institute of  
Petrochemicals Engineering & Technology,  
Jaipur  
DELIVERED BY : Geetika Patni

TITLE : Communication Skills at Workplace  
DATE & VENUE : 13 July, 2022 at SKIT  
DELIVERED BY : Nidhi Sharma

## FDP ATTENDED

TITLE : Advanced Research Methodology in  
Humanities & Social Sciences  
DATE : 1 to 7 August, 2022  
ATTENDED BY : Nidhi Sharma  
ORGANIZED BY : Reva University, Bangalore

## SESSION CHAIRED

SESSION ON : International Conference on Advances in  
English Language Studies  
CHAIRD BY : Neha Purohit  
DATE & VENUE : 15 October, 2022 at University of Engineering  
& Management, Jaipur

## DEPARTMENT OF PHYSICS

### BOOK CHAPTER PUBLISHED

BOOK : Shape Memory Composites based on  
Polymers and Metals for 4D Printing  
AUTHOR/S : Rishi Vyas  
BOOK CHAPTER : Characterization Techniques for Shape  
Memory Alloys  
PUBLISHER : Springer International Publishing, 2022  
Research Publication

### FDPs ATTENDED

TITLE : The Art of Effective Teaching in the Light of  
NEP  
DATE : 13 to 17 September, 2022  
ATTENDED BY : Brajraj Sharma, Manasvi Dixit, Komal  
Sharma, Rishi Vyas, Rajiv Kumar  
ORGANIZED BY : Department of English, SKIT, Jaipur

TITLE : Python 3.4.3  
DATE : 8 to 12 August, 2022  
ATTENDED BY : Rishi Vyas  
ORGANIZED BY : Spoken Tutorial Project at IIT Bombay and  
National Mission of Teachers Teaching at  
SKIT, Jaipur

TITLE : Recent Trends in Applied Physics  
DATE : 25 to 30 July, 2022  
ATTENDED BY : Rishi Vyas  
ORGANIZED BY : Department of Physics, Easwari Engineering  
College, Ramapuram, Chennai

### WORKSHOP ATTENDED

TITLE : Intellectual Property Rights (IPRs) and IP  
Management for Start-up  
DATE : 26 August, 2022  
ATTENDED BY : Manasvi Dixit, Rishi Vyas  
ORGANIZED BY : IPR Cell, SKIT, Jaipur

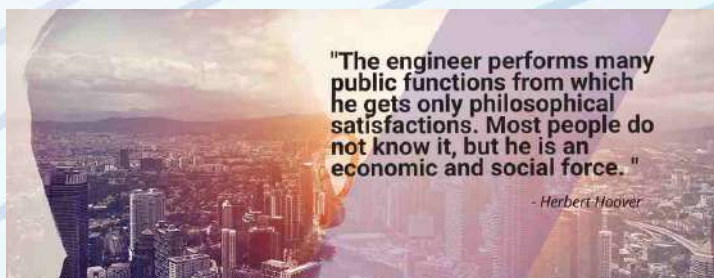
### WEBINAR ATTENDED

TITLE : Careers in IP & IP Monetization  
DATE : 28 September, 2022  
ATTENDED BY : Manasvi Dixit  
ORGANIZED BY : IPE, IPETHICON Educational Academy

## DEPARTMENT OF MATHEMATICS

### PAPER PRESENTED IN CONFERENCE

TITLE : Laplace Variational Iteration Method for Solving  
Fractional Wave like Equations.  
AUTHOR/S : Deepika Jain, Sumit Gupta  
CONFERENCE : ICMMAAC-22, JECRC University



**"The engineer performs many public functions from which he gets only philosophical satisfactions. Most people do not know it, but he is an economic and social force."**

- Herbert Hoover

## BOOK PUBLISHED

TITLE : Discrete Mathematical Structures  
AUTHOR/S : Amber Srivastava  
PUBLISHER : Genius Publications (India).

## FDPs ATTENDED

TITLE : Research Trends and Methodologies in Machine Learning  
DATE : 25 to 29 July, 2022  
ATTENDED BY : Vijay Kumar Singhal  
ORGANIZED BY : Haldia Institute of Technology

TITLE : Inculcating Universal Human Values in Technical Education  
DATE : 18 to 22 July, 2022  
ATTENDED BY : Chandra Prakash Jain, Vivek Vijay, Vijay Kumar Singhal, Nawal Kishore Jangid  
ORGANIZED BY : AICTE, New Delhi

TITLE : Python 3.4.3  
DATE : 8 to 12 August, 2022  
ATTENDED BY : Vijay Kumar Singhal, Surbhi Sharma, Jyoti Arora, Nawal Kishore Jangid, Chandra Prakash Jain, Sangeeta Choudhary, Vivek Vijay  
ORGANIZED BY : SKIT, Jaipur

TITLE : Smart Materials Processing and Applications  
DATE : 25 to 29 July, 2022  
ATTENDED BY : Pramila Kumawat  
ORGANIZED BY : Applied Science Department, NITTTR, Chandigarh

TITLE : MATLAB for Science and Engineering Teachers  
DATE : 1 to 5 August, 2022  
ATTENDED BY : Sangeeta Choudhary, Pramila Kumawat  
ORGANIZED BY : NITTTR, Chandigarh

TITLE : Digital Tools for Teaching and Learning  
DATE : 25 to 29 July, 2022  
ATTENDED BY : Sangeeta Choudhary  
ORGANIZED BY : NITTTR, Chandigarh

TITLE : Entrepreneurship, Innovations & Digital Skills in New Era of AI  
DATE : 25 to 29 July, 2022  
ATTENDED BY : Jyoti Arora, Surbhi Sharma  
ORGANIZED BY : Moradabad Institute of Technology

TITLE : Smart Tools and Methodologies for Academic Research  
DATE : 1 to 5 August, 2022  
ATTENDED BY : Jyoti Arora, Surbhi Sharma  
ORGANIZED BY : Mahatma Gandhi Institute of Technology, Hyderabad

TITLE : Artificial Intelligence, Machine Learning and IOT for Electrical Engineering  
DATE : 8 to 12 August, 2022  
ATTENDED BY : Jyoti Arora, Surbhi Sharma  
ORGANIZED BY : AISSMS Institute of Information Technology

TITLE : Theoretical Foundations of Computer Science – School on Data Privacy Virtual School  
DATE : 11 to 15 July, 2022  
ATTENDED BY : Surbhi Sharma  
ORGANIZED BY : IIIT Bangalore

TITLE : Interdisciplinary Translational Science and Engineering  
DATE : 18 to 22 July, 2022  
ATTENDED BY : Surbhi Sharma  
ORGANIZED BY : CBCMT, Vellore Institute of Technology, Vellore, India

TITLE : Emerging Trends in VLSI Design & Practical Approach  
DATE : 1 to 6 August, 2022  
ATTENDED BY : Surbhi Sharma  
ORGANIZED BY : Aditya College of Engineering, Madanapalle, Andhra Pradesh

TITLE : Amazon Web Services  
DATE : 22 to 27 August, 2022  
ATTENDED BY : Surbhi Sharma  
ORGANIZED BY : Gitam University, Hyderabad

TITLE : Advanced Tools & Techniques for Scientific Research Writing & Publication  
DATE : 12 to 18 September, 2022  
ATTENDED BY : Nawal Kishore Jangid, Vivek Vijay, Chandra Prakash Jain  
ORGANIZED BY : University of Engineering and Management, Jaipur

TITLE : The Art of Effective Teaching in the light of NEP  
DATE : 13 to 17 September, 2022  
ATTENDED BY : Pramila Kumawat, Chandra Prakash Jain, Deepika Jain, Vijay Kumar Singhal  
ORGANIZED BY : Department of English, SKIT, Jaipur

TITLE : Current Trends in Application of Mathematics  
DATE : 21 September to 4 October, 2022  
ATTENDED BY : Chandra Prakash Jain, Sumit Gupta, Vijay Kumar Singhal.  
ORGANIZED BY : Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science & Technology

TITLE : Essential Industrial Chemistry for Engineers  
DATE : 5 to 9 September, 2022  
ATTENDED BY : Chandra Prakash Jain  
ORGANIZED BY : NITTTR -Chandigarh

## WORKSHOPS ATTENDED

TITLE : Hands-on-Training on Solving Differential Equations in Engineering Sciences  
DATE : 21 to 25 June, 2022  
ATTENDED BY : Vivek Vijay  
ORGANIZED BY : Department of Mathematics, NIT, Uttarakhand

TITLE : Basic Statistical Analysis and its Interpretation

using SPSS  
DATE : 2 to 5 July, 2022  
ATTENDED BY : Nawal Kishore Jangid  
ORGANIZED BY : Global Institute of Statistical Solutions (GISS)

TITLE : Workshop on Intellectual Property Rights (IPRs) and IP Management for Start up  
DATE : 26 August, 2022  
ATTENDED BY : Pramila Kumawat  
ORGANIZED BY : Intellectual Property Rights (IPR) Cell, SKIT, Jaipur

TITLE : International Workshop on Recent Trends in Modeling and its Applications  
DATE : 4 to 8 September, 2022  
ATTENDED BY : Sumit Gupta, Vivek Vijay, Chandra Prakash Jain  
ORGANIZED BY : Department of Mathematics, Postgraduate College, Ghazipur, UP.

## STTPs/SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE : Induction Training Programme Phase II  
DATE : 29 August to 9 September, 2022  
ATTENDED BY : Pramila Kumawat, Sangeeta Choudhary  
ORGANIZED BY : NITTTR, Kolkata

## NPTEL / MOOKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : Developing Soft Skills  
COMPLETED BY : Pramila Kumawat  
DURATION & CATEGORY : 12 July to 25 September, 2022

## COURSES MENTORED

Mentor/s	Course/s
Jyoti Arora, Surbhi Sharma	: Problem Solving through Programming in C
Jyoti Arora, Surbhi Sharma	: Soft skills
Surbhi Sharma	: Introduction to Abstract and Linear Algebra

## DEPARTMENT OF CHEMISTRY

### CONFERENCE ATTENDED

TITLE : Interdisciplinary Approaches in Science, Engineering and Humanities  
DATE : 29 to 30 July, 2022  
ATTENDED BY : Poonam Ojha, Swati Joshi  
ORGANIZED BY : Applied Science Department, SIRTE, Bhopal.

### FDPs ATTENDED

TITLE : Smart Tools and Methodologies for Academic Research  
DATE : 1 to 5 August, 2022

ATTENDED BY : Swati Joshi, Poonam Ojha  
ORGANIZED BY : Dept. of ECE, Mahatma Gandhi Institute of Technology, Hyderabad

TITLE : The Art of Effective Teaching in the light of NEP  
DATE : 13 to 17 September, 2022  
ATTENDED BY : Swati Joshi, Poonam Ojha  
ORGANIZED BY : Department of English, SKIT, Jaipur

TITLE : Essential Industrial Chemistry for Engineers  
DATE : 5 to 9 September, 2022  
ATTENDED BY : Swati Joshi, Poonam Ojha, Vinita Sharma  
ORGANIZED BY : NITTR, Chandigarh

## WORKSHOPS ATTENDED

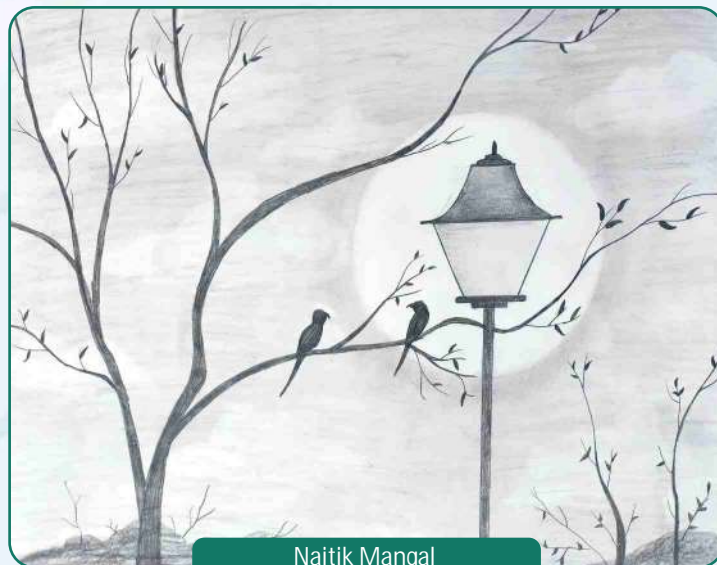
TITLE : Plasma- It's Applications and Nuclear Fusion  
DATE : 26 August, 2022  
ATTENDED BY : Sharda Soni, Swati Joshi, Poonam Ojha  
ORGANIZED BY : Institute for Plasma Research, Gandhi Nagar

TITLE : Materials Testing and Characterization for Academia and Industries  
DATE : 22 to 26 July, 2022  
ATTENDED BY : Swati Joshi, Poonam Ojha  
ORGANIZED BY : Department of Metallurgical and Materials Engineering, MNIT, Jaipur, Rajasthan

## STTPs/SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE : Advanced Research Methodology  
DATE : 22 September to 7 October, 2022  
ATTENDED BY : Poonam Ojha, Swati Joshi  
ORGANIZED BY : Ramanujan College, Delhi University

TITLE : Materials Processing & Characterization  
DATE : 5 to 9 August, 2022  
ATTENDED BY : Swati Joshi, Poonam Ojha  
ORGANIZED BY : Department of Metallurgical and Materials Engineering, MNIT, Jaipur



Naitik Mangal  
2nd Sem, CSE

# DEPARTMENT OF MANAGEMENT STUDIES

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



A 3-day Orientation Programme, 'Shubharambh: Empowering Future Managers' was organized by the Department of Management Studies from 7 to 9 November, 2022 with an aim to introduce the Students and their parents to the culture and resources of SKIT.

The Orientation Programme began with an inaugural ceremony at J.C. Bose Seminar Hall. The event was graced by the Chief Guest, Mr. Vijay Maheshwari, Senior Vice President, HDFC Bank Rajasthan; Guests of Honor, Mr. Siddharth Jain, Vice President, HDFC Bank Rajasthan and Mr. T.S. Sharma, Senior Corporate Manager, Provakil & Initio; Prof. S. L. Surana, Director (Academics); and Prof. R. K Jain, Dean, SKIT.

Prof. Ona Ladiwal, Head, DMS briefed the gathering about the activities and future plan of DMS. Followed by this, Prof. S. L. Surana advised the students to adopt focused and disciplined approach in life for success and highlighted the importance of positive attitude. In a brief inaugural address, Mr. Vijay Maheshwari stressed on motivating the students to face challenges ahead. Mr. Siddharth Jain emphasized on promoting students for innovation and new ideas. The inaugural program was followed by a session of Dr. Swati Jain, Associate Professor, S.S. Jain Subodh P.G. Mahila Mahavidhyalya, Jaipur. She enlightened the students about the duties and responsibilities of a manager and an entrepreneur.



On day 2, Prof. Ona Ladiwal, Mr. Vimal, Prof. Neha Purohit and Dr. Geetika Patni of SKIT took sessions on various topics. The last two sessions were taken by Mr. Veer Jain (Chartered Accountant) on Financial Literacy with an aim to educate the students about management of financial resources in personal as well as professional life.

Day 3 began with a session by Dr. Ravish Pandey of the Department of Management Studies. This was followed by the session of Mr. Lalit Latta on the topic 'Explore yourself with SKIT'. Post the session, an industrial visit to 'Jaipur Rugs' was arranged for the students to impart them practical learning from corporate world.

The programme concluded with a feedback session where students of both I & II year presented their feedback regarding their journey & experiences at SKIT. The orientation programme was coordinated by Dr. Atul Gupta.

## PATENT PUBLISHED

TITLE : Human Resource Development in Automobile Industry (A Comparative Study of Company X and Company Y)  
NAME : Ona Ladiwal  
PATENT FILED DATE : Application No. 202211053867 A; 20 September, 2022  
PATENT PUBLISHED DATE : 23 September, 2022



Akshat Surana  
4th Sem, CSE

# PAPERS PUBLISHED

## DEPARTMENTS OF CS & IT

- TITLE** : An Efficient Modular Framework for Automatic LIONC Classification of MedIMG using unified Medical Language
- AUTHOR/S** : Surbhi Bhatia, Mohammed Alojail, Sudhakar Sengan and Pankaj Dadheech (2022)
- JOURNAL** : Frontiers in Public Health
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- AUTHOR/S** : Kaushlendra Sharma, Rajesh Doriya, Saroj Kumar Pandey, Ankit Kumar, G. R. Sinha, and Pankaj Dadheech (2022)
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- AUTHOR/S** : Hakam Singh, Vipin Rai, Neeraj Kumar, Pankaj Dadheech, Ketan Kotecha, Ganeshsree Selvachandran and Ajith Abraham (2022)
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- AUTHOR/S** : Randeep Singh, Abolfazl Mehbodniya, Julian L. Webber, Pankaj Dadheech, G. Pavithra, Mohammed S. Alzaidi, and Reynah Akwafo (2022)
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- TITLE** : Hardware Implementation for Lower Limb Surface EMG Measurement and Analysis using Explainable AI for Activity Recognition

- AUTHOR/S** : Ankit Vijayvargiya, Puneet Singh, Rajesh Kumar, Nilanjan Dey
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- AUTHOR/S** : Ankit Vijayvargiya, Bharat Singh, Nidhi Kumari, Rajesh Kumar
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- AUTHOR/S** : Ankit Vijayvargiya, Bharat Singh, Rajesh Kumar, João Manuel RS Tavares
- JOURNAL** : Biomedical Engineering Letters, Springer
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- AUTHOR/S** : Cuddapah Anitha, Virendra Swaroop Sangtani, Ajay Kumar Bansal, Mahaveer Kannan R., R. Rajesh Sharma, Saravanan M. S
- JOURNAL** : Advances in Materials Science and Engineering, Article ID 8579180, 2022. (SCI)

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- TITLE** : Design, Modeling, and Frequency Domain Analysis with Parametric Variation for Fixed guided Vibrational Piezoelectric Energy Harvesters
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- AUTHOR/S** : Neeraj. Jain, S. K. Sharma, Renu Kumawat, P. K. Jain, D. Kumar, R. Vyas
- JOURNAL** : Micro and Nanostructures, vol. 169, no. 207366, p. 207366, 2022,  
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- AUTHOR/S** : Vikas Pathak, Satyasai Jagannath Nanda, Amit Mahesh Joshi, Sitanshu Sekhar Sahu
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- AUTHOR/S** : Shubhi Jain
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## DEPARTMENT OF CIVIL ENGINEERING

- TITLE** : Robustness of Self-compacting Concrete incorporating Bone-china Ceramic Waste Powder along with Granite Cutting Waste for Sustainable Development.
- AUTHOR/S** : Abhishek Jain & Rakesh Choudhary
- JOURNAL** : Journal of Cleaner Production, ISSN number: 0959-6526, Volume 367, 20 September 2022, 132969, DOI: <https://doi.org/10.1016/j.jclepro.2022.1332969>
- TITLE** : Effect of Granite Industry Waste Addition on Durability Properties of Fly Ash Blended Self Compacting Concrete
- AUTHOR/S** : Abhishek Jain & Rakesh Choudhary
- JOURNAL** : Construction and Building Materials, ISSN number: 0959-6526, Volume 340, 18 July 2022, 127727, DOI: <https://doi.org/10.1016/j.conbuildmat.2022.127727>
- TITLE** : Comprehensive Assessment of Ceramic Etp Sludge Waste as a Scm for the Production of Concrete
- AUTHOR/S** : Pooja Jain
- JOURNAL** : Journal of Building Engineering, ISSN number: 2352-7102, Volume 57, 1 October 2022, 104973, DOI: <https://doi.org/10.1016/j.job.2022.104973>
- TITLE** : Effect of Granite Fines on Mechanical and Microstructure Properties of Concrete
- AUTHOR/S** : Kishan Lal Jain
- JOURNAL** : Advances in Concrete Construction, Volume 13, Number 6, June 2022, pages 461-470. DOI: <https://doi.org/10.12989/acc.2022.13.6.461>
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- TITLE** : Conflict between Native and the Diasporic Culture in Manju Kapur's The Immigrant
- AUTHOR/S** : Nidhi Sharma
- JOURNAL** : IUP Journal of English Studies. June 2022, Vol 17 Issue 2, p22-31
- TITLE** : Listening as an Important Tool in Language Acquisition while Teaching
- AUTHOR** : Geetika Patni
- JOURNAL** : International Research Journal of Education and Technology
- TITLE** : Techniques of Overcoming the Fear How to Speak Effectively
- AUTHOR** : Geetika Patni
- JOURNAL** : International Research Journal of Education and Technology
- TITLE** : Importance of Intrapersonal Skills for Engineering Education

- AUTHOR** : Geetika Patni
- JOURNAL** : International Journal of Research Publication & Reviews

## DEPARTMENT OF PHYSICS

- TITLE** : Resistive Switching, Endurance and Retention Properties of Zno/Hfo2 Bilayer Heterostructure Memory Device
- AUTHOR/S** : Rishi Vyas
- JOURNAL** : Micro and Nanostructures 169 (2022) 207366.
- TITLE** : Extremely Wideband Semi Elliptical Antenna for 5G Application
- AUTHOR/S** : Brajraj Sharma
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- TITLE** : Synthesis of Nickel Ferrite for Supercapacitor Application
- AUTHOR/S** : Rajiv Kumar
- JOURNAL** : Materials Today Proceedings (2022)

## DEPARTMENT OF MATHEMATICS

- TITLE** : Development and Applications of Augmented Whale Optimization Algorithm
- AUTHOR/S** : Shalini Shekhawat
- JOURNAL** : Mathematics
- TITLE** : Darcy–Forchheimer Flow of MHD Jeffrey Nanoliquid over a Permeable Cone with Cattaneo–Christov Heat and Mass Flux Theories
- AUTHOR/S** : Sumit Gupta
- JOURNAL** : Indian Journal of Physics
- TITLE** : Application of Laplace Decomposition Method to Fractional Riccati Equations
- AUTHOR/S** : Deepika Jain
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## DEPARTMENT OF CHEMISTRY

- TITLE** : Synthesis, Characterization and Pharmacological Studies of some Ethoxyphthalimido thiazolo[4,5 d] Pyrimidines and Ethoxy-phthalimido Thiazolo[4,5-c] Isoxazoles
- AUTHOR/S** : Usha Ameta, Swati Joshi and G. L. Talesara
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- TITLE** : Synthesis of some Ethoxyphthalimide Derivatives of Pyrazoloisoxazoles and Pyrazolopyrimidines and their Antimicrobial and Anticancer Screening
- AUTHOR/S** : Swati Joshi and G. L. Talesara
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- TITLE** : A Review on Antibiotics Pervasiveness in the Environment and their Removal from Wastewater
- AUTHOR/S** : Sangeeta Vyas, Aju Gupta & Raj. K. Vyas
- JOURNAL** : Separation Science and Technology, (Taylor & Francis) DOI: 10.1080/01496395.2022.2110120



## 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 innocents' life  
That's the only reason  
I believe in myself  
So now I know  
What I really have to find !

Nikhil Garg  
B.Tech. 3rd Year, Dept. of CS

## AS I LOOK UP FROM MY DESK....

Human life has been reduced to a mechanical and drab existence in modern times. Due to our limitless desires to acquire material gains like wealth, power and status, we are distancing ourselves from nature. Since, nature itself is a reflection of the divine in being a nurturer and healer of our bodies and souls, by neglecting it we are pushing ourselves to a world of darkness, despair and disappointments -physically, mentally and emotionally.



I see not the pristine, azure sky  
But a glaring blue screen,  
Scattered not with stars  
But with studded desktop icons  
As I look up from my desk....  
I hear not the fluttering of fresh leaves,  
In the lush green wood  
But insipid, leaves fluttering,  
From the pile of flattened wood  
As I look up from my desk....  
I breathe not a refreshing breeze,  
From an open window  
But a chill of dry wind,  
From a frigid, caged mechanical window

As I look up from my desk....  
I hear not the delightful songs of birds  
But an unpleasant ring of my phone,  
Sending shivers down my spine,  
Insisting me to work incessantly  
As I look up from my desk....  
I see not the happy visage of a man,  
Contented and satisfied  
But an unhappy man's face,  
With freckles of tensions and plight.

Dr. Shipra Malik  
Associate Professor, Dept. of English



## ॥ कुछ याद दिलाती हूँ ॥

चल सखी तुझे कुछ याद दिलाती हूँ,  
बिन रागों के अल्हड़ से गीत सुनाती हूँ,  
चटक रंगों के दुपट्टों का ढेर दिखाती हूँ,  
आंगन में लगी वो शरमाती सी बेल दिखाती हूँ,  
चल सखी तुझे कुछ याद दिलाती हूँ ।  
बारिश के मखमली कीड़े का स्पर्श कराती हूँ,  
लम्बी गुथी चोटियों का भेद बताती हूँ,  
रूठने-मनाने का शरारती खेल दिखाती हूँ,  
चल सखी तुझे कुछ याद दिलाती हूँ ।  
त्योहारों पर चेहरों की रौनक दिखलाती हूँ,  
घर के पकवानों की मिठास चखाती हूँ,  
स्नेह भरी फटकार दिखाती हूँ,  
चल सखी तुझे कुछ याद दिलाती हूँ ।  
सर्दी की दुपहरी में नमक लगे मूली-अमरूद खिलाती हूँ,  
पैदल लम्बी दूरी की सैर कराती हूँ,  
एक ही बात पर कई-कई बार हंसाती हूँ,  
चल सखी तुझे कुछ याद दिलाती हूँ ।  
फिर कुछ बिन मतलब का काम कराती हूँ,  
तू मुझे झुला, मैं तुझे झुलाती हूँ,  
चल नये युग को बोले कि तुम्हें कुछ बताती हूँ,  
चल सखी तुझे कुछ याद दिलाती हूँ ।

**Dr. Pramila Kumawat**  
Professor, Dept. of Mathematics

## ॥ पार्थिव ॥

तेज कदम बढ़े जा रहे थे, घूँघट का ख्याल ही ना रहा,  
जाने कब चौराहा आया, मंदिर की सीढियाँ गुजरीं,  
बूढ़ी माई का खेत पार हुआ, ठाकुर का कुंआ भी निकल गया,  
एड़ी में काँटा चुभा तो होश आया, कितनी देर से भाग रही थी ।  
पुराना पीपल जड़ें बिखरे खड़ा था, वहीं निढाल पड़ गयी ।  
तलवे से खून की बूँदें टपकी, तो मिट्टी की माँग भर गयी,  
उन्होंने उसे मार डाला, मैंने मोखे से देखा है ।  
फेफड़े पसलियाँ तोड़ साँस लेना चाहते हैं,  
जिस्म पस्त है, आँखें मुंदी जाती हैं ।  
वो मेरे पास आकर खड़े हैं, मैं बौराई सी देखती हूँ, यम दिखाई पडता है ।  
उन्होंने मेरा घूँघट ढका, और चले गये, पीछे एक जीती लाश छोड़े ।

**Mahima Meena**  
Assistant Professor, Dept. of English

## ॥ नया होगा दिन ॥

नया होगा दिन, नया सवेरा होगा,  
नया साल, नया दिन, लेकिन पुराना हमारा साथ होगा,  
गिले-शिकवे पुराने साल को थमाए,  
आओ हम नई मिसाल बनाए ।

उम्मीद किसी से हो न हो, विश्वास किसी का न तोड़ना है,  
अगर किसी का सहारा न भी बन सके हम,  
तो किसी की आशाओं को भी न तोड़ना है ।

नाराजगी किसी से भले ही जायज हो तुम्हारी,  
लेकिन शायद नीयत में उसके खोट न हो जरा सा,  
क्या पता किसी दिन अफसोस नहीं गर्व हो,  
गर्व हो किसी को मौका देने का,  
गर्व एक सच्चा व्यक्तित्व पाने का ।

नए साल की खुशी काफी है,  
लेकिन खुशी ऊपरी नहीं मन में चाहिए ।  
पुराने गम तो साथ रहेंगे हमारे,  
बस उनको भुला दे, एक ऐसा साथी चाहिए ।

आओ इस साल को अच्छा बनाए,  
पुराने शिकवे भुला कर, हम दोस्त नए बनाए,  
दोस्त नए बनाए पर दोस्ती के मायने पुराने हो,  
जैसी हमें दूसरों से उम्मीद, वैसा हम खुदको बनाएं ।

**Harsh Jain**

2nd Year, Dept. of CSE(AI)

## एक दिन

यूँ रात में सोया हुआ था एक दिन,  
कुछ सपनों में खोया हुआ था एक दिन ॥  
कुछ नाता ना था इस जहाँ का उस जहान से,  
इस कदर खोया हुआ था एक दिन ॥  
वक्त जैसे ठहर सा ही गया,  
कुछ इस कदर थी नजरें मिली एक दिन ॥  
वो आँखें तेरी झील सी मैं डूबता गया,  
मुलाकातें हुयी खवाबों में यूँ एक दिन ॥  
फिर ख्वाब टूटे, नींद टूटी, टूटा वो जहाँ मेरा,  
कुछ इस कदर छूटा था मुझसे वो एक दिन ॥  
आँखों से बह निकली निर्मल अशकों की धारा,  
कुछ इस कदर टूटा था मेरा ख्वाब एक दिन ॥

Raju Sharma, 7th Sem, Electrical Engineering



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