SWAMI KESHVANAND INSTITUTE OF
TECHNOLOGY, MANAGEMENT & GRAMOTHAN

RANKED NO.1 ENGINEERING COLLEGE IN RAJASTHAN
BY RAJASTHAN TECHNICAL UNIVERSITY (RTU), KOTA
2017 TO 2021
CONSECUTIVELY FOR 5th YEAR

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SKIT TIMES 2023

LITERARY CLUB

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

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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 student.

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THE EDITOR SPEAKS

SHOULD MYTHOLOGY BE CONDEMNED AS IRRATIONAL

As we are are living in a postmodern world which is characterized by scepticism, rejection of universal validity of any meaning or an ideology; mythological thinking has been dismissed as irrational. There is no denying the fact that the pursuit of reason has resulted in technological advancements, but reason is destructive too as it has ridiculed the importance of mythology, and instead propagates to formulate new mythologies based on rationality.

Yoram Hazony insists that an overemphasis on reason has corroded the moral and spiritual foundations of people today, hence some sort of traditional or mythological revival is required to guide the people in difficult times. It is well known that ancient cultures used myths and sacred texts as a therapeutic tool. In modern psychology, Carl Gustav Jung established the importance of this domain in a very deep and practical way. The mythic tales provide clues and sometimes solutions as well in dealing with difficult transitions. Psychotherapists have always taken the help of stories to help people to deal with difficult situations. One such example is the parable of Cinderella which has a central theme of bereavement as she lost her parents and subjected to live a wretched life with her stepmother and stepsisters, but she always had a hope of getting freedom from the difficult situation. This story may become a saviour, if told to a psychologically weak person passing through a similar difficult phase in his life.

We should not forget that psychotherapy is indirectly related to specific cultural patterns of personality development and social intercourse of a person, which, if traced back is found to be deeply rooted in the traditional world view represented in mythologies.

Dr. Anupriya Singh
EDITOR-IN-CHIEF

COVER STORY

YOU COULD SPEND ALL DAY SWIMMING ABOUT IN THE OCEAN OF INFORMATION WITHOUT GETTING WET.

It is time to introduce you all to the Literary Club of SKIT! Since its founding in 2018, it has served as a forum in which young people may discuss their ideas, think critically, and share their perspectives. It is the brainchild of the conceivers who are passionate about literature and feel that creative side of the mind can be honed with the help of literary activities. Literary Club has been successful in exhibiting the abilities of the students by hosting a number of events, such as debate competition, story writing competition, skits, plays, poetry recitation and book quiz. This has provided the students with intriguing inspiration.

The objective of the Literary Club is to foster both analytical and creative thought processes. It provides opportunity to the students to enhance their literary talent as well as their appreciation for a variety of forms of literature. The objective of the Literary Club is not only to improve students' writing abilities, but also to foster in them an appreciation for reasoning and a desire to learn more, as well as the self-assurance necessary to communicate effectively. People who have passion for literature and would like to discuss their experiences, readings, and views with others who have the same interest and ability are the target demographic for this group.

Instilling elite oratory abilities, interpersonal skills, and communication skills within its members is the purpose of this club. In order to assist the members in developing a sense of literary appreciation as well as exploring the depths of literary criticism and analysis, this group was created. It assists the students in shaping their personalities and to put an end to any anxiety that may still be present in their thoughts regarding their ability to speak any language.

Dr Shikha Agarwal
(Coordinator, Literary club)

NEWS FLASH

AAGAAZ: ORIENTATION PROGRAM FOR B.TECH FIRST YEAR STUDENTS ORGANIZED

The Orientation Programme, 'Aagaz-2022' was organized on 3 November, 2022 for the newly admitted students of B.tech first year with an objective to introduce the students to the academic tradition, ethos and academic culture of the college as well as to its various departments and facilities. Mr. Anil Dhaka (IRS), MD, RRECL was the Presiding Guest; Mr. Girdhar Beniwal (IAS), Sub-Divisional Magistrate, Tonk; and Ms. Vibhuti Mangal, Squadron Leader, Indian Air Force were the Guests of Honour. Shri Surja Ram Meel, Chairman, SKIT; Shri Jaipal Meel, Director, SKIT and Prof. S.L. Surana, Director (Academics) extended a gracious floral welcome to the distinguished guests. Prof. Ramesh Kumar Pachar, Principal, SKIT thanked the guests for their inspiring words and told the students about the rich history of the institution. He also provided vital information to the parents and their wards about the infrastructure of the college, and the academic assessment & evaluation system of the college and encouraged the parents to be in touch with the batch counsellors of their wards.

BLOOD DONATION CAMP ORGANIZED

Red Cross Club and NSS Club of SKIT organized the 20th Mega Blood Donation Camp at SKIT on 23 November, 2022. Dr. S.L. Surana, Director, Academics; Dr. Ramesh Kumar Pachar, Principal, SKIT; Mr. Jaipal Meel, Director, SKIT and Shri Surja Ram Meel, Chairman, SKIT graced the ribbon-cutting ceremony of the event. Many hospitals such as SMS, Durlabhji, and Swasthya Kalyan Blood Bank participated in the camp. Shri Surja Ram Meel congratulated the organizers for their service rendered to the society. 743 units of blood were collected in the camp.

74th REPUBLIC DAY CELEBRATED

SKIT celebrated 74th Republic Day with full enthusiasm and patriotic fervor in the front lawns of the Civil Block on 26 January, 2023. The event was graced by Prof. S.L. Surana, Director, Academics; Prof. Ramesh Kumar Pachar, Principal, SKIT; Mr. Jaipal Meel, Director, SKIT and other dignitaries. Students sang patriotic songs and staged dances mesmerizing the audience. Prof. Surana addressed the students and conveyed them the importance of Republic Day and encourage them to work for nation-building.

GLIMPSE OF REPUBLIC DAY

A PROUD MOMENT FOR SKIT

Prof. S.L. Surana, Director, Academics, SKIT was felicitated with "Lifetime Achievement" Award by the Institution of Engineers. Rajasthan on the occasion of the 74th Republic Day for his valuable and incredible contribution to the engineering and teaching fraternity. The award ceremony took place at "The Institution of Engineers," Rajasthan State Center, Jaipur on 26 Jan, 2023.

GLIMPSE OF THE AWARD CEREMONY

AWARENESS PROGRAM ON 'INTELLECTUAL PROPERTY RIGHTS' ORGANIZED

An awareness program on "Intellectual Property Rights" was organized by the IPR Cell in association with National IP

Awareness Mission (NIPAM) and Kalam Program for IP Literacy and Awareness (KAPILA) on 22 December, 2022. Dr. Savita Choudhary welcomed the speaker and other dignitaries and talked about the initiatives & efforts made by the IPR Cell.

The invited speaker for the session was Dr. Jitendra Singh, Assistant Controller Patents & Design, Indian Patent office (NIPAM), Ministry of Commerce and Industry, Govt. of India. He talked about the fundamental importance of IPR in Indian and international perspective and also discussed in detail about the patents, designs, trademarks, trade secrets, copyright and geographical indications and guidelines for filing patents. Dr. Praveen Kumar Jain was the faculty co-coordinator of the event.

GLIMPSE OF AWARENESS PROGRAM

Mannat Gothwal, Ist Sem, CSE

ECA CELL ACTIVITIES

EVENTS CONDUCTED BY ECO FRIENDS CLUB

EVENT 1: 'WORLD SOIL DAY' CELEBRATED

A poster competition on 'Soil Conservation' was organized on December, 2022 portraying present and future conditions of soil with an objective to spread awareness among people regarding conservation of environment and soil.

GLIMPSE OF POSTER COMPETITION

EVENT 2: 'INTERNATIONAL YEAR OF MILLETS' CELEBRATED

Food and Agricultural Organization (FAO) of United Nations has declared year 2023 as 'International Year of Millets' with an objective to create awareness and increase production & consumption of millets. To celebrate International Year of Millets-2023, Eco Friends club organized an event in which the students were advised to include millets in their diets and were asked to send their selfies with any dish made up of millets.

GLIMPSE OF THE EVENT

'INFO-SESSION' BY GOOGLE DEVELOPER STUDENTS CLUB

An Info-session for the new students was organized by the Google Developer Student Club on 30 November, 2022 with an objective to motivate the students to find their fields of interest among a plethora of technologies present today. The faculty advisor of the club Ms. Priyanka Sharma apprised the students of the vision of the club to establish a worthy tech community in the college.

The student coordinators of the club Divyanshi Bhardwaj (3rd Year, CSE), Vinit Kumar Shah (4th Year, IT) and Akshat Surana (3rd Year, CSE) talked about the fundamental necessity of coding, cyber security and IoT and wish their juniors to excel in such technical genres. The event ended with a technical quiz in which all the students present participated via the QR code displayed on the screen hosted on slido, and the top-scoring individuals were given goodies and swags from GDSC as a token of appreciation.

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GLIMPSE OF INFO SESSION

TECHFEST ZONAL 'TECHNORIAN-2022' ORGANIZED

Techfest Zonal 'Technorian-2022' was organized by the Robotics Club of the Mechanical Dept. under the aegis of IIT, Bombay on 9 October, 2022. The event included interesting competitions like 'Code-Decode,' 'Cosmo Clench,' 'Mesmerize,' 'Olympiad' as well as an exhibition for young innovators. About 350 teams from various engineering colleges and schools of different states participated in the program.

Prof. Ramesh Kumar Pachar, Principal, SKIT and Prof. Dheeraj Joshi, Head, Mechanical Dept. distributed prizes and conveyed their best wishes to the participants. The competitions were organized under the guidance of Mr. Praveen Saraswat, Mr. Arun Beniwal, and Mr. Pramod Jain. The coordinators of the event were Mr. Sudesh Garg, and Mr. Brij Mohan Sharma. The vote of thanks was given by Mr Sudesh Garg.

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GLIMPSE OF TECHNORIAN

EVENTS CONDUCTED BY MUSIC CLUB

EVENT 1: 'AAROHAN': A LIVE BAND AUDITIONS AND INTERACTION SESSION

An offline live band auditions and interaction session – 'AAROHAN' was organized on 9 November, 2022 with an objective to provide opportunity to the students to showcase their music talents. The students from first year were short listed for future performances as vocalists, instrumentalists, and beat boxers. This club activity also encouraged other students to sing and join with the club band. It was a delightful activity enjoyed and appreciated by everyone.

EVENT 2: 'SKIT IDOL': AN INTRA COLLEGE SOLO AND DUET SINGING COMPETITION

The pre-pravah event- 'SKIT IDOL' was organized on 14 December, 2022 in Gyan Mandir auditorium. About 60 students from B-tech, Civil and Pharmacy participated in the event, out of which only 19 students were short listed to perform on the stage. The competition was held under two genres: Solo Singing and Duet. The event was successfully completed under the guidance of efficient team mentors.

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GLIMPSE OF SKIT IDOL

DEPARTMENTS OF COMPUTER SCIENCE ENGINEERING & INFORMATION TECHNOLOGY

INTERNATIONAL CONFERENCE ON 'EMERGING TECHNOLOGIES IN COMPUTER ENGINEERING: INDUSTRIAL IOT AND CYBER PHYSICAL SYSTEMS (ICETCE-2023)' ORGANIZED

A two-day international conference on 'Emerging Technologies in Computer Engineering: Industrial IOT and Cyber Physical Systems (ICETCE-2023)' was organized from 3 to 4 February, 2023.

The welcome address was given by Prof. Ramesh Kumar Pachar, Principal, SKIT The Conference's Organizing Chair, Prof. Anil Chaudhary threw light on the vision, mission, research framework and conference outcomes; the Technical Program Chair, Prof. Arun K. Somani discussed about the history of the conferences conducted earlier in the chain; and the General Chair of the conference, Prof. Seeram Ramakrishna gave a motivational talk to the audience.

The Guest of Honour Ms. Mona Bharadwaj, Country Manager, IBM Research talked about the fundamental aspects of innovation. Ms. Nivedita Sharma, Cloud Specialist, Microsoft discussed about the advancements in technology. Dr. Mani Madhukar, Program Manager, Global University Programs, IBM Research emphasized on the use of digital content apart from the traditional classroom teaching.

The conference was sponsored by Natural Group, Infosys Campus Connect, and IBM Skills Build Program. Prof. C. M. Choudhary gave the vote of thanks.

GLIMPSE OF THE INAUGURAL CEREMONY

INTERNATIONAL CONFERENCE ON 'INTELLIGENT COMPUTING, COMMUNICATION AND INFORMATION SECURITY' ORGANIZED

All India Council for Technical Education (AICTE) sponsored international conference on 'Intelligent Computing, Communication and Information Security' was organized from 25 to 26 November, 2022 with an objective to bring together the academicians, researchers, and industrial professionals to discuss and exchange their knowledge, innovative ideas, latest issues, advanced technologies, and advancements in the area of intelligent data analysis and related applications.

All accepted papers were submitted for publication in the Springer Book 'Algorithms for Intelligent Systems Series' (ISSN 2524-7573, 2524-7565). Conference's Organizing Chairs were Dr. Mukesh kumar Gupta (HOD-CSE) and Dr Pankaj Dadheech.

GLIMPSE OF THE INAUGURAL CEREMONY

FDP ON 'RECENT TRENDS AND ADVANCEMENTS IN COMPUTER SCIENCE & ENGINEERING' ORGANIZED

A one- week Faculty Development Program on 'Recent Trends and Advancements in Computer Science & Engineering' was organized under the aegis of IQAC & PAQIC, SKIT, Jaipur from 21 to 25 November, 2022.

The objective of the FDP was to form a bridge between the industry and academic Institutions and to impart the basic concepts and techniques of emerging technologies such as Machine Learning, Internet of Things, Robotics, Image Processing, Neural Networks, Sensors, Greed Computing, Blockchain etc. The coordinators of the event were Dr. Nilam Choudhary and Dr. Pankaj Dadheech.

GLIMPSE OF THE INAUGURAL CEREMONY

WORKSHOP ON 'INTERNET OF THINGS' ORGANIZED

A one- week student workshop on 'Internet of Things' (IoT) was organized jointly by the Departments of Computer Science and Electronics & Communication Engineering under the aegis of Centre of Excellence-IoT, SKIT in association with Enovate Skills, NITTTR Campus, Chandigarh; CSIR-IMMT: InTEC, Bhubaneswar from 7 to 12 November, 2022. The objective of the event was to educate the students about the building blocks of Internet of Things and their applications, use of Arduino and Raspberry Pi Module in the implementation of the basic projects, realizing the revolution of internet in mobile devices and Cloud & Sensor networks. The coordinators of the event were Dr. Praveen Kumar Jain, Mr. Ankit Agarwal, Ms. Pooja Choudhary, Mr. Pallav Rawal, Ms. Anjana Sangwan, Ms. Priyanka Sharma and Ms. Rashmi Dadheech.

GLIMPSE OF THE INAUGURAL CEREMONY

WORKSHOP ON 'GRAPHICAL USER INTERFACE DESIGN USING ANGULAR FRAMEWORK' ORGANIZED

A one-week student workshop on 'Graphical user Interface Design using Angular Framework' was organized by the Department of Information Technology in association with IEEE Computer Society Chapter, IEEE Delhi Section, IEEE Rajasthan Subsection, Student Branch Chapter of Departments of CSE & IT and Habilelabs Pvt. Ltd., India for III year students from 14 to 19 November, 2022. The objective of the workshop was to introduce the students with the basic concepts of Graphical User Interface Design using Angular Framework, to provide an exposure to basic and advance HTML, CSS, JS programming; to provide hands-on-experience of best practices for Angular Framework through various case studies, expression to bind data to HTML and to enable the students to develop small application for enterprise. The event was coordinated by Ms. Sanju Choudhary and Ms. Richa Rawal.

GLIMPSE OF THE WORKSHOP

BOOK CHAPTERS PUBLISHED

BOOK	:	Networking Technologies in Smart Healthcare: Innovations and Analytical Approaches
AUTHOR/S	:	T. K. Revathi, B. Sathiyabhama, S. Sankar, Digvijay Pandey, Binay Kumar Pandey, Pankaj Dadheech
BOOK CHAPTER	:	An Intelligent Model for Coronary Heart Disease Diagnosis
PUBLISHER	:	CRC Press, Taylor & Francis Group
BOOK	:	Role of Data-Intensive Distributed Computing Systems in Designing Data Solutions. EAI/Springer Innovations in Communication and Computing
AUTHOR/S	:	Pandey, B.K., Pandey, D., Gupta, A., Nassa, V.K., Dadheech, P., George, A.S.
BOOK CHAPTER	:	Secret Data Transmission using Advanced Morphological Component Analysis and Steganography
PUBLISHER	:	Springer

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE	:	Intrusion Detection System based Ameliorated Technique of Pattern Matching
AUTHOR/S	:	Akshat Tanwer, Priyanka Sharma, Anjali

Pandey, Sumit Mathur
PROCEEDING : Proceedings of International Conference on Information Management & Machine Intelligence (ICIMMI 2022), Poornima Institute of Engineering & Technology, Jaipur

TITLE : Prediction of Crop Yield for Cultivation Relying on Soil and Environmental Traits using Numerous Feature Selection Methodologies
AUTHOR/S : Priyanka Sharma and Pankaj Dadheech
PROCEEDING : Emerging Technologies in Computer Engineering: Industrial IoT and Cyber Physical Systems. ICETCE 2023. Communications in Computer and Information Science, Springer, Cham

TITLE : Computational Blockchain Techniques in Healthcare 4.0
AUTHOR/S : Amit Kumar Singh, Swapnesh Taterh, Pankaj Dadheech
PROCEEDING : Emerging Technologies in Computer Engineering: Industrial IoT and Cyber Physical Systems. ICETCE 2023. Communications in Computer and Information Science, Springer, Cham

TITLE : Modern-age Agriculture with Artificial Intelligence: Emphasizing Crop Yield Prediction
AUTHOR/S : Priyanka Sharma and Pankaj Dadheech
PROCEEDING : Proceedings of International Conference on Smart Industries and Manufacturing Systems for Sustainable Development, SKIT, Jaipur

TITLE : Deep Learning based Network Intrusion Detection System: A Survey
AUTHOR/S : Nidhi Srivastav
PROCEEDING : Emerging Technologies in Computer Engineering: Industrial IoT and Cyber Physical Systems. ICETCE 2023. Communications in Computer and Information Science, Springer, Cham.

PAPERS PRESENTED IN CONFERENCES

TITLE : IoT, Enabling Technologies, and Sensor Node Deployment Pattern in WSN
AUTHOR/S : Sunita Gupta, Meenakshi Nawal, Neha Janu and Dinesh Goyal
CONFERENCE : International Conference on Technologies for Smart Green Connected Society 2021

TITLE : Analysis of Crime Rate Prediction using Machine Learning and Performance Analysis using Accuracy Metrics
AUTHOR/S : Meenakshi Nawal, Kusumlata Jain, Smaranika Mohapatra & Sunita Gupta
CONFERENCE : International Conference, ICETCE 2022

TITLE : Query-based Image Retrieval using SVM
AUTHOR/S : Neha Janu, Sunita Gupta, Meenakshi Nawal & Pooja Choudhary
CONFERENCE : Communications in Computer and Information Science 1591

FDPs ATTENDED

TITLE : Recent Trends and Advancements in Computer Science & Engineering
DATE : 21 to 25 November, 2022
ATTENDED BY : Nidhi Srivastav, Nikhar Bhatnagar, Priyanka, Rubal Deep Gill, Harpreet Singh Gill, Anjali Pandey, Sunita Gupta, Dolly Mittal, Sanju Chaudhary, Richa Rawal, Vipin Jain, Praveen Kumar Yadav
ORGANIZED BY : SKIT, Jaipur

TITLE : Scilab
DATE : 5 to 17 December, 2022
ATTENDED BY : Nidhi Srivastav, Shanu Tripathi
ORGANIZED BY : SKIT, Jaipur

TITLE : Recent Trends in Data Science & Engineering
DATE : 23 to 28 January, 2023
ATTENDED BY : Pankaj Dadheech
ORGANIZED BY : Department of Artificial Intelligence & Data Science, Global Institute of Technology, Jaipur.

TITLE : Emerging Trends in AI and Data Science Applications
DATE : 12 to 16 December, 2022
ATTENDED BY : Pankaj Dadheech
ORGANIZED BY : Poornima College of Engineering, Jaipur

TITLE : Recent Advancements in Science & Engineering
DATE : 26 to 30 December, 2022
ATTENDED BY : Pankaj Dadheech
ORGANIZED BY : Regional College for Education Research and Technology, Jaipur

TITLE : Emerging Trends in Computational Intelligence
DATE : 19 to 23 December, 2022
ATTENDED BY : Pankaj Dadheech, Priyanka Sharma, Naveen Jain, Richa Rawal, Sanju Chaudhary, Praveen Kumar Yadav, Dr. S.R Dogiwal
ORGANIZED BY : Department of Computer Science and Engineering in collaboration with Directorate of Teacher Empowerment Center, Manipal University, Jaipur

TITLE : Data Science: Tools & Research
DATE : 1 to 5 November, 2022
ATTENDED BY : Pankaj Dadheech
ORGANIZED BY : Department of Artificial Intelligence & Data Science, VIIT, Pune

WORKSHOP ATTENDED

TITLE : Recent Trends of Machine Learning Applications in Grid Integrated Electric Vehicles (RTMLGEV-2023)
DATE : 31 January to 4 February, 2023
ATTENDED BY : Nikhar Bhatnagar, Shalini Singhal
ORGANIZED BY : SKIT, Jaipur

SESSION CHAIRED

SESSION ON : Cyber Physical Systems
CHAIRED BY : Pankaj Dadheech
DATE & VENUE : 23 to 24 December, 2022; International Conference on Information Management & Machine Intelligence (ICIMMI-2022) organized by the Department of Computer Engineering, Poornima Institute of Engineering and Technology, Jaipur.

PATENTS PUBLISHED

TITLE : A Vehicle-to-Vehicle Alerting Mechanism Equipped Swappable Electric Battery System to Notify Requirements
NAME : Pankaj Dadheech
PATENT FILED DATE : Application No. 202221036594; 26 June, 2022
PATENT PUBLISHED DATE : 2 December, 2022

TITLE : System to Assess and Identify the Casualty of the Wound Tissue usingArtificial Intelligence
NAME : Pankaj Dadheech
PATENT FILED DATE : Application No. 202221069895; 4 December, 2022
PATENT PUBLISHED DATE : 30 December, 2022

EXPERT TALK DELIVERED

TITLE : Precision Farming: Applications of AI & IoT in Agriculture at International Workshop on Advanced AI
DATE & VENUE : 21 January, 2023; MGM University, Aurangabad.
DELIVERED BY : Pankaj Dadheech

TITLE : Societal Applications of Machine Learning
DATE & VENUE : 26 to 30 December, 2022; Shri Vishnu Engineering College for Women(A), Bhimavaram.
DELIVERED BY : Pankaj Dadheech

TITLE : The Trends, Prospects & Perspectives using AI, ML, DL, Big- Data, Cloud and Parallel Computing
DATE & VENUE : 7 to 11 November, 2022; Arya Institute of Engineering Technology & Management, Jaipur.
DELIVERED BY : Pankaj Dadheech

NPTEL / mooKIT / IITBX / SWAYAM COURSE/S COMPLETED

COURSE/ TOPIC : Deep learning
COMPLETED BY : Nidhi Srivastava
DURATION& CATEGORY : July to October, 2022. Awarded Elite Certificate

COURSE/TOPIC : Programing in java
COMPLETED BY : Naveen Jain
DURATION & CATEGORY : July to October, 2022. (12-week course). Awarded Gold Medal, Rank in top 1%

COURSE/TOPIC : Big Data Computing
COMPLETED BY : Naveen Jain
DURATION & CATEGORY : July to October, 2022 (8-week course). Awarded Silver Medal

COURSE/TOPIC : Introduction to Industry 4.0 and Industrial Internet of Things
COMPLETED BY : Sunita Gupta
DURATION & CATEGORY : July to October, 2022 (12-week course). Awarded Silver Medal

COURSE/TOPIC : Operating System Fundamentals
COMPLETED BY : Vipin Jain
DURATION & CATEGORY : July to October, 2022 (12-week course). Awarded Elite Certificate.

FACULTY ACHIEVEMENT

Dr. Nilam Choudhary has been appointed as a Joint Secretary of IEEE Rajasthan Subsection.

DEPARTMENT OF MECHANICAL ENGINEERING

SKIT TEAM PARTICIPATED IN 'TABLINTON INDIA' : ALL INDIA DOCTORS' SPORTS TOURNAMENT

A team of 24 students and two faculty members participated as technical volunteers in 'TABLINTON INDIA: All India Doctors' Sports Tournament' at SMS Stadium, Jaipur held from 23 to 25 September, 2022 with an objective to learn about team work, project management and execution of task in real time. The SKIT team managed live streaming of the whole event which included sports like badminton, table-tennis, chess, carom and swimming through Docs CME app. The complete technical task was accomplished under the guidance of Mr. Rajeev Ratan (Alumnus, Dept. of ME, SKIT), Mr. Arun Beniwal and Mr. Naveen Kumar Sain.

Prof. N. C. Bhandari and Mr. Praveen Saraswat were also involved in the management of the task and to support the team to make the venture successful. The participants were given 'certificates of appreciation' and internship offer in Blitz Eduventure Technologies Private Limited (owner of Docs CME app), hospitals and event management companies like Brassica Grills.

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GLIMPSE OF THE TEAM

STUDENT DEVELOPMENT PROGRAM ON 'SCILAB' ORGANIZED

A one-week online Student Development Program on 'Scilab' was organized jointly by Spoken Tutorial, IIT Bombay; Department of Mechanical Engineering and ASME Student Section of SKIT from 3 to 7 October, 2022 with an objective to introduce the students with basics of Scilab and its applications. A total of 204 students registered for the SDP. Participation certificates were given to all the registered participants after successfully completing the SDP. Additional certificates were issued to the participants who passed the exam which was conducted after the completion of SDP through Spoken Tutorial portal.

EXPERT TALK ON '7 TOOLS OF QUALITY MANAGEMENT IN INDUSTRIES' ORGANIZED

An expert talk on '7 Tools of Quality Management in Industries' was given by Mr. Shadman Husain, Ex-Project Manager, BOSCH Ltd., Jaipur on 22 September, 2022. Mr. Husain explained the importance of 7 Quality Tools, viz. histogram, cause & effect diagram, flow chart, control chart, check sheet, pareto chart and scatter diagram with the help of examples such as complaints/feedback given by the waiting patients at a hospital reception-desk. He also suggested the students to refer standard books for better understanding of the Quality Management.

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GLIMPSE OF THE EXPERT TALK

INTERNATIONAL CONFERENCE ON 'SMART INDUSTRIES AND MANUFACTURING SYSTEMS FOR SUSTAINABLE DEVELOPMENT – SIMS-2022' ORGANIZED

International Conference on 'Smart Industries and Manufacturing Systems for Sustainable Development' was organized from 11 to 12 November, 2022 with an objective to educate the participants with state-of-the-art development in the field of industrial and production engineering including Additive Manufacturing, Advanced Machining, Artificial Intelligence, Energy Management, Environmental Aspects, Fuzzy Logic & Genetic Algorithms, Green Manufacturing, High Speed Machining, IOT and Industry 4.0, Industrial Robotics, Industrial Tribology, Industrial Waste Management, Smart Materials, Sustainable Manufacturing, etc. The eminent speakers- Prof. P N Rao, University of Northern Iowa, USA; Prof. R. Echempati, Kettering University, USA;

Prof. Rajeev Agrawal, MNIT Jaipur; Prof. J P Mishra, IIT, BHU gave keynote lectures during the conference.

The conference was coordinated by Prof. Dheeraj Joshi, Dr. Manoj Kumar Sain and Mr. Praveen Saraswat.

STAFF DEVELOPMENT PROGRAM ON '3D PRINTING' ORGANIZED

A five-day Staff Development Program on '3D Printing' was organized for the non-teaching staff in collaboration with E-Yantra Lab, SKIT from 16 to 20 January, 2023 with an objective to educate the participants with the principles of 3D printing. Besides this, the participants made a Udi model on Tinkercad software and learned slicing of the model on Kuera software.

Prof. Dheeraj Joshi, Mr. Praveen Saraswat, Mr. Ankit Agarwal and Mr. Dinesh Lal Gupta were the coordinators of the event.

GLIMPSE OF STAFF DEVELOPMENT PROGRAME

WORKSHOP ON 'MODELLING AND ANALYSIS OF ENGINEERING SYSTEMS' ORGANIZED

A three- day student workshop on 'Modelling and Analysis of Engineering Systems' was organized from 1 to 3 December, 2022 with an objective to enhance the basic knowledge and to give hand-on experience of Engineering Systems using Creo and ANSYS. The workshop was Coordinated by Dr Prem Singh, Mr. Sudesh Garg and Mr. Suhaib Ansari.

GLIMPSE OF WORKSHOP

INDUSTRIAL TOUR FOR STUDENTS ORGANIZED

A one-week industrial tour for fifth semester students of ME was organized from 5 to 10 December, 2022 with an objective to provide the students an exposure to industrial culture, machineries, industrial processes, and safety regulations. Four reputed industries-Munjal Showa (Hero Group), IMT Manesar; Kaizen Engineering Works, Neemrana; MT Autocrafts, Pinjore; and Milestone Gears, Pinjore were visited during this tour. The students were accompanied by three faculty members- Mr. Dinesh Kumar Sharma, Mr. Arun Beniwal and Ms. Monika Khurana.

GLIMPSE OF INDUSTRIAL TOUR FOR STUDENTS ORGANIZED

PAPERS PRESENTED IN CONFERENCES

TITLE	:	Development of Regression Equations for Stochastic Inventory System.
AUTHOR/S	:	Achin Srivastav, Deepak Kumar, Prem Singh
CONFERENCE	:	International Conference on Smart Industries and Manufacturing Systems for Sustainable Development, SKIT, 11 to 12 November, 2022
TITLE	:	Experimental Investigation of Float Glass in Rotary Ultrasonic Machining for Sustainable Manufacturing.
AUTHOR/S	:	Naveen Kumar Sain
CONFERENCE	:	International Conference on Smart Industries and Manufacturing Systems for Sustainable Development, SKIT, 11 to 12 November, 2022
TITLE	:	Thermal Regulation and Performance Enhancement of Solar PV Panel using PCM Om29
AUTHOR/S	:	Arun Beniwal
CONFERENCE	:	International Conference on Smart Industries and Manufacturing Systems for Sustainable Development, SKIT, 11 to 12 November, 2022

TITLE : Experimental and Numerical Study of Diesel-Diethyl Ether-2-Methoxy Ethyl Ether Blends in CI Engines.
AUTHOR/S : Chandan Kumar, Ashish Nayyar
CONFERENCE : International Conference on Sustainable Energy and Environmental Challenges, IIT BHU, 16 to 18 December, 2022

TITLE : Experimental Analysis of Blended Fuel with EGR on Agriculture based Diesel Engine.
AUTHOR/S : Chandan Kumar, Ashish Nayyar
CONFERENCE : International Conference on Sustainable Energy and Environmental Challenges, IIT BHU, 16 to 18 December, 2022

CONFERENCES ATTENDED

TITLE : International Conference on Advanced Research in Industrial & Manufacturing Applications (ICARIMA 2022)
DATE : 13 to 14 October, 2022.
ATTENDED BY : Brij Mohan Sharma
ORGANIZED BY : University of Mauritius, Réduit, Moka and MNIT, Jaipur

TITLE : International Conference on Action for Restoring Environment
DATE : 24 to 25 November, 2022
ATTENDED BY : Naveen Kumar Sain
ORGANIZED BY : Faculty of Engineering and Technology, Ramapuram Campus, Chennai

TITLE : International Conference on Sustainable Energy and Environment Challenges
DATE : 16 to 18 December, 2022
ATTENDED BY : Naveen Kumar Sain
ORGANIZED BY : Faculty of Engineering and Technology, Ramapuram Campus, Chennai

FDPs ATTENDED

TITLE : The Art of Effective Teaching in the Light of NEP.
DATE : 13 to 17 September, 2022.
ATTENDED BY : Dheeraj Joshi, Deepak Kumar, Achin Srivastava, Praveen Saraswat, Prem Singh, Dinesh Kumar Sharma, Sudesh Garg, Sandeep Kumar Bhaskar, Sanjay Choudhary, Nitin Goyal, Monika Khurana, Namita Soni, Brij Mohan Sharma
ORGANIZED BY : Department of English, SKIT, Jaipur

TITLE : Python 3.4.3
DATE : 8 to 12 August, 2022
ATTENDED BY : Manu Augustine, Deepak Kumar, Achin Srivastava, Prem Singh, Nitin Goyal, Arun Beniwal, Chandra Mohan Kumar, Sandeep Kumar Bhaskar, Madhukar Kumar, Naveen Kumar Sain,
ORGANIZED BY : Dept. of CSE, SKIT in collaboration with Spoken Tutorial, IIT, Bombay

TITLE : Analysis of Engineering System using Creo.
DATE : 1 to 6 August, 2022
ATTENDED BY : Amit Kumar Bansal, Achin Srivastava, Prem Singh, Arun Beniwal, Chandan Kumar, Sudesh Garg,
ORGANIZED BY : Bhartiya Vidya Bhavan's Sardar Patel College of Engineering in collaboration with SAE India Western Section, Invensys CAD Solution, and Indian Institution of Industrial Engineering under IQAC SPCE.

TITLE : Modern Strategies in Physics Research: Ensuring Sustainable Development (MSPR-ESD).
DATE : 28 June to 2 July, 2022
ATTENDED BY : Amit Kumar Bansal, Chandra Mohan Kumar, Madhukar Kumar, Brij Mohan Sharma
ORGANIZED BY : SGT University, Gurugram

TITLE : Cyber Security & Ethical Hacking.
DATE : 25 to 29 July, 2022
ATTENDED BY : Achin Srivastava, Prem Singh
ORGANIZED BY : Department of CSE, Chandigarh University, Gharuan, Mohali, Punjab

TITLE : Trends and Challenges in the Development of Electric Vehicles and Hybrid Electric Vehicles.
DATE : 26 to 30 September, 2022
ATTENDED BY : Praveen Saraswat
ORGANIZED BY : Department of Mechanical Engineering, Lendi Institute of Engineering and Technology, Vizianagaram, Andhra Pradesh

TITLE : Deep learning with Python.
DATE : 19 to 24 September, 2022
ATTENDED BY : Nitin Goyal
ORGANIZED BY : AISSMS Institute of Information Technology, Pune

TITLE : Role of Power Electronics in Electric Vehicle.
DATE : 5 to 10 September, 2022
ATTENDED BY : Nitin Goyal
ORGANIZED BY : ATAL, CMR Institute of Technology

TITLE	:	Refresher Course in Mechanical Engineering.
DATE	:	4 to 15 July, 2022
ATTENDED BY	:	Sudesh Garg
ORGANIZED BY	:	Dept. of Mechanical Engineering, NITTTR, Chandigarh
TITLE	:	21st Century Skills for Teaching & Learning (CSTL-2022)
DATE	:	16 to 20 August, 2022
ATTENDED BY	:	Sudesh Garg
ORGANIZED BY	:	Dept. of Computer Science and Engineering, GMR Institute of Technology
TITLE	:	Amazon Web Services
DATE	:	22 to 27 August, 2022
ATTENDED BY	:	Sudesh Garg
ORGANIZED BY	:	Department of CSE, GMR institute of technology, Rajam in collaboration with Brainovision Solutions India Pvt. Ltd., and AICTE
TITLE	:	Overview of Capital Market by BSE.
DATE	:	18 to 22 July, 2022
ATTENDED BY	:	Chandra Mohan Kumar
ORGANIZED BY	:	Seth Hirachand Mutha College Kalyan,...PLACE.....
TITLE	:	Entrepreneur, Innovation and Digital Skill in New Era of AI.
DATE	:	25 to 29 July, 2022
ATTENDED BY	:	Chandra Mohan Kumar
ORGANIZED BY	:	Moradabad Institute of technology, Moradabad
TITLE	:	Advanced Characterization Techniques.
DATE	:	25 to 30 July, 2022
ATTENDED BY	:	Raj Kumar
ORGANIZED BY	:	Chandigarh University
TITLE	:	UHV – II
DATE	:	2 to 6 August, 2022
ATTENDED BY	:	Amit Jhalani
ORGANIZED BY	:	AICTE
TITLE	:	Emerging Trends in Computational Intelligence
DATE	:	19 to 23 December, 2022.
ATTENDED BY	:	Manu Augustine, Deepak Kumar, Amit Kumar Bansal, Vinay Singh Marwal, Ankit Agarwal, Prem Singh, Chandra Mohan Kumar, Pramod Jain, Monu Gupta, Saurabh Gupta, Manoj Kumar, Amit Jhalani, Madhukar Kumar, Md. Suhaib
ORGANIZED BY	:	Dept. of Computer Science and Engineering in collaboration with Directorate of Teacher Empowerment Center, Manipal University, Jaipur.
TITLE	:	Recent advances in Science and Engineering (RASE-2022)
DATE	:	26 to 30 December, 2022
ATTENDED BY	:	Manu Augustine, Achin Srivastav, Pramod Jain, Sandeep Kumar Bhaskar, Trivendra Kumar Sharma, Manoj Kumar, Raj Kumar, Manoj Kumar Sain
ORGANIZED BY	:	Regional College for Education, Research and Technology...PLACE.....
TITLE	:	Research Scope in Electric Vehicles
DATE	:	5 to 9 December, 2022
ATTENDED BY	:	Manoj Kumar Sain, Deepak Kumar, Amit Kumar Bansal, Vinay Singh Marwal, Ankit Agarwal, Praveen Saraswat, Brij Mohan Sharma, Arun Beniwal, Chandan Kumar, Sandeep Kumar Bhaskar, Monu Gupta, Sumita, Saurabh Gupta, Trivendra Kumar Sharma, Naveen Kumar Sain, Raj Kumar, Amit Jhalani, Ajay Dhanopia, Dinesh Kumar Sharma
ORGANIZED BY	:	NITTTR, Chandigarh
TITLE	:	Trends & Challenges in the Development of Electric Vehicles & Hybrid Electric Vehicles.
DATE	:	14 to 18 November, 2022
ATTENDED BY	:	Amit Kumar Bansal, Vinay Singh Marwal, Ankit Agarwal, Prem Singh, Dinesh Kumar Sharma, Nitin Goyal, Brij Mohan Sharma, Monu Gupta, Sumita, Sanjay Bairwa, Trivendra Kumar Sharma, Amit Jhalani, Saurabh Gupta, Naveen Kumar Sain, Raj Kumar
ORGANIZED BY	:	Dept,of Mechanical Engineering, Lendi Institute of Engineering & Technology, Denkada, Vizianagaram.
TITLE	:	SciLab
DATE	:	5 to 17 December, 2022
ATTENDED BY	:	Achin Srivastav, Prem Singh, Nitin Goyal, Saurabh Gupta, Sunil Kumar
ORGANIZED BY	:	SKIT in collaboration with Spoken Tutorial , IIT, Bombay
TITLE	:	Emerging Avenues of Supply Chain Logistical Drivers for Atma-Nirbhar Bharat
DATE	:	5 to 16 December, 2022
ATTENDED BY	:	Praveen Saraswat, Trivendra Kumar Sharma
ORGANIZED BY	:	MNIT, Jaipur.
TITLE	:	Digital Supply Chain and Logistics 4.0
DATE	:	16 to 27 January, 2023

ATTENDED BY : Praveen Saraswat, Sudesh Garg
ORGANIZED BY : MNIT Jaipur.

TITLE : Recent Trends and Advancements in Computer Science & Engineering
DATE : 21 to 25 November, 2022
ATTENDED BY : Brij Mohan Sharma, Sudesh Garg
ORGANIZED BY : Department of CSE, SKIT, Jaipur.

WORKSHOPS ATTENDED

TITLE : International and National Patent Drafting and Filing
DATE : 17 to 18 September, 2022.
ATTENDED BY : Raj Kumar
ORGANIZED BY : T.John Institute of Technology, Gottigere, Karanataka

TITLE : National Start-up Day
DATE : 16 January, 2023
ATTENDED BY : Ajay Kumar Dhanopia
ORGANIZED BY : JKLU, Jaipur

TITLE : Intellectual Property Training Program
DATE : 30 January, 2023
ATTENDED BY : Amit Jhalani
ORGANIZED BY : National Intellectual Property Awareness Mission, Govt of India.

SEMINARS ATTENDED

TITLE : Latest Developments in Engineering Materials & Manufacturing Processes
DATE : 17 to 19 September, 2022
ATTENDED BY : Dheeraj Joshi, Sandeep Kumar Bhaskar, Naveen Kumar Sain, Manoj Kumar Sain.
ORGANIZED BY : Institution of Engineers India (IEI), Rajasthan State Centre

TITLE : Decarbonize Investment in Air conditioning & Installation Ceremony
DATE : 26 August, 2022.
ATTENDED BY : Arun Beniwal, Naveen Kumar Sain, Amit Bansal, Madhukar Kumar, Sunil Kumar
ORGANIZED BY : ASHRAE Rajasthan Chapter

TITLE : Quality Improvement in Technical Education through Outcome based Education
DATE : 4 to 5 November, 2022
ATTENDED BY : Dinesh Kumar Sharma
ORGANIZED BY : BRCM College of Engineering & Technology, Bhiwani

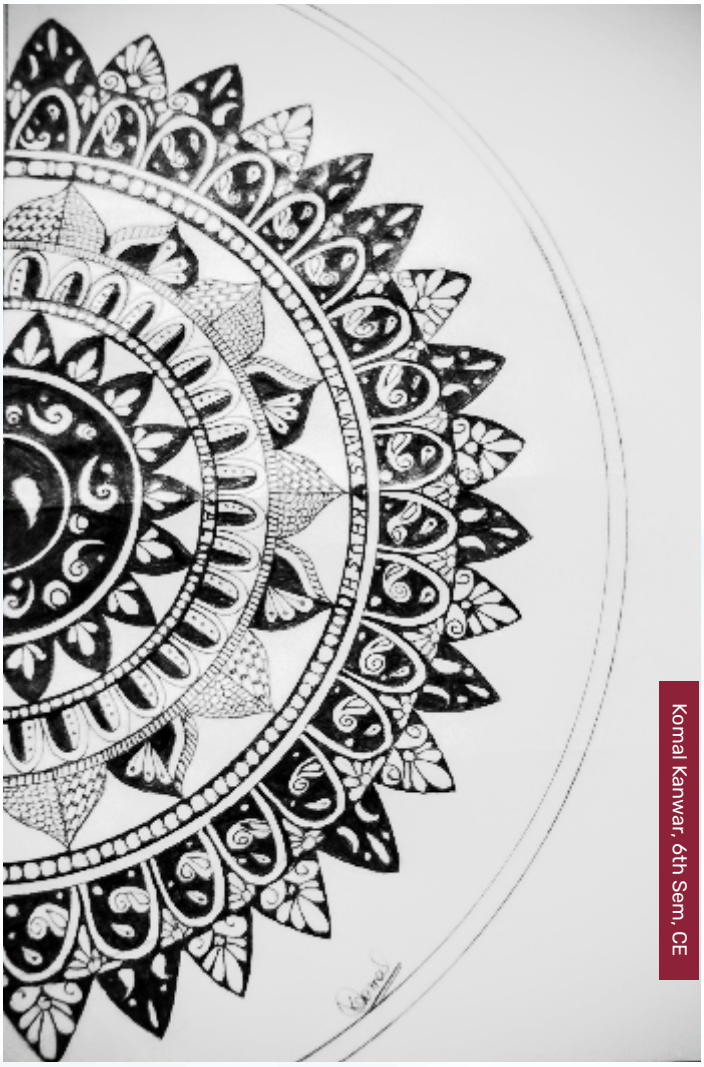
NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : Soft Skills
COMPLETED BY : Dheeraj Joshi
DURATION & CATEGORY : July to December, 2022 (12-Week). Awarded Elite + Gold Certificate, Score in top 1%

COURSE/ TOPIC : Principles of Management
COMPLETED BY : Achin Srivastav
DURATION& CATEGORY : July to October, 2022 (12-week). Awarded Elite + Gold Certificate, Score in top 5%

COURSE/ TOPIC : Introduction to Fluid Mechanics
COMPLETED BY : Arun Beniwal
DURATION& CATEGORY : July to October, 2022 (12-week). Awarded Elite + Gold Certificate, Score in top 2%

COURSE/ TOPIC : Laser based Manufacturing
COMPLETED BY : Vinay Singh Marwal
DURATION & CATEGORY : July to October, 2022 (12-week). Awarded Elite + Gold Certificate



Komal Kanwar, 6th Sem, CE

DEPARTMENT OF ELECTRONICS & COMMUNICATION

FDP ON 'SCILAB' ORGANIZED

Faculty Development Programme on 'SCILAB' was organized in collaboration with Spoken Tutorials, IIT Bombay from 5 to 17 December, 2022. The inaugural ceremony was graced by the presence of the Chief Guest Ms. Jyoti Solanki, Training Manager, IIT Bombay; Prof. Mukesh Arora, Head-ECE & OFA; Prof. Praveen K. Jain, Dy. Head-ECE and Ms. Priyanka Sharma.

Ms. Jyoti discussed about the basics of Scilab and also talked about the importance of Spoken Tutorials, a project of the National Mission on Education through ICT funded by the Ministry of Education (MHRD), Govt. of India. The FDP provided a two-week training to the participants through an online platform. The participants securing 40% and above percentage in the test got the course completion certificates while others got the certificates of participation. Ms. Rajni Idiwal was the coordinator of the event.

WORKSHOP ON 'INTERNET OF THINGS' ORGANIZED

A one- week workshop on 'Internet of Things' was organized jointly by the Departments of Electronics & Communication Engineering and Computer Science Engineering under the aegis of Centre of Excellence- IOT, SKIT in association with Enovate Skills, Chandigarh and CSIR-IMMT: InTEC, Bhubaneswar from 7 to 12 November 2022. The inaugural ceremony was graced by the presence of the Chief Guest Mr. Ajay Godara, CEO-Enovate Skill, Chandigarh; Prof. S. L. Surana, Director, Academics; Dr. Mukesh Arora, Head-ECE and Dr. Anil Choudhary, Head- IT.

Mr Godara talked on increasing digitalization and datafication of society, network control and management of manufacturing equipment and assets & situation management. The eminent speakers in the workshop were Ms. Ratna Saravanabhavan & Mr. Raghu Ramaswamy, Solution Architect, IBM and Dr. Satyajit Rath, Principal Scientist and Head-CNeM, CSIR-IMMT, Bhubaneswar.

The faculty coordinators of the event were Dr. Praveen Kumar Jain, Mr. Ankit Agarwal, Ms. Pooja Choudhary, Mr. Pallav Rawal, Ms. Anjana Sangwan, Ms. Priyanka Sharma and Ms. Rashmi Dadheech. Ms. Ayushi Khandal was the student coordinator.

GLIMPSE OF THE WORKSHOP

WORKSHOP ON 'IOT AND SMART DEVICES' ORGANIZED

A one-week workshop on 'Internet of Things and Smart Devices' (IoTSD-2022) was organized by the Department of Electronics &Communication Engineering in association with Enovate Skill, Chandigarh and CSIRIMMT: InTec, Bhubaneshwar from 21 to 26 November, 2022. The program was graced by the presence of the Chief Guest Mr. Gunjan Saxena, Dy. Director General, Department of Telecom, Rajasthan and Chairman of I.E., Rajasthan State Chapter and Guest of Honor Mr. Ajay Godara, CEO, Enovate Skill, Chandigarh.

Mr. Gunjan Saxena highlighted the role of engineers in the development of a nation and discussed about the importance of IoT in daily life. The Guest of Honor Mr. Godara introduced the participants with the key findings of his work in the field of Internet of Things and also informed about the number of concerns and risks in the growth of IoT technologies and products, especially in the areas of privacy and security. Hands- on sessions on Arduino and different electronic sensors, ESP-8622 Wi-Fi based microcontroller and transformers were also held by the experts. The coordinators of the event were Dr Rukhsar zafar, Dr Swati Arora, Ms Manju Choudhary, Ms Pooja Choudhary, Mr Lalit Kumar Lata and Mr Sunil Lakhawat.

PAPERS PRESENTED IN CONFERENCES

TITLE	:	Performance Enhancement of Kesterite Cu2ZnSn(S,Se)4 Thin Film Solar Cell
AUTHOR/S	:	Swati Arora
CONFERENCE	:	International Conference on Automation, Computing and Renewable Systems, Mount Zion College of Engineering and Technology, Pudukkottai, Tamil Nadu; 13 to 15 December, 2022
TITLE	:	Znox-Mgo (1-X) Thin Films using Electron Beam Deposition
AUTHOR/S	:	Swati Arora
CONFERENCE	:	International Conference on Information

Management & Machine Intelligence, Poornima Institute of Engineering& Technology, Jaipur ; 23 to 24 December, 2022

FDPs ATTENDED

TITLE	:	Emerging Trends in Computational Intelligence
DATE	:	19 to 23 December, 2022
ATTENDED BY	:	Priyanka Sharma, Ankit Agrawal
ORGANIZED BY	:	Manipal University, Jaipur
TITLE	:	SCILAB
DATE	:	5 to 17 December, 2022
ATTENDED BY	:	Pallav Rawal, Dinesh Kumar, Priyanka Sharma, Kiran Rathi, Shubhi Jain, Ankit Agrawal, P. K. Jain, Rahul Pandey, Harshal Nigam, Sunil Lakhawat, Rajni Idiwal, Suman Sharma
ORGANIZED BY	:	SKIT, JAIPUR
TITLE	:	Emerging Trends in AI and Data Science Applications
DATE	:	12 to 16 December, 2022
ATTENDED BY	:	Dinesh Kumar
ORGANIZED BY	:	PCE, Jaipur
TITLE	:	Recent Trends and Advancements in Computer Science Engineering
DATE	:	21 to 25 November, 2022
ATTENDED BY	:	Swati Arora
ORGANIZED BY	:	SKIT, Jaipur

SESSION CHAIRED

SESSION ON	:	IEEE Power India International Conference–PIICON 2022
CHAIRED BY	:	Monika Mathur
DATE & VENUE	:	25 to 27 November, 2022 at NIT Delhi

PATENTS FILED

TITLE	:	A Solar Security Camera System
NAME	:	Monika Mathur, Kiran Rathi, Rajni Idiwal, Priyanka Sharma
PATENT FILED DATE:		Design No.: 350381-001; 29 September, 2021
TITLE	:	Novel 5G Communication Microstrip Patch Antenna for Broadcasting and Navigation Application
NAME	:	Shubhi Jain
PATENT FILED DATE:		11 September, 2022 (Ref. No. 202111028832)

Ph.D AWARDED

THESIS TITLE	:	Structural and Optical Gain Analysis of Nanoscale Heterostructure using Compound Semiconductors
Ph.D. AWARDED TO	:	Jai Prakash Vijay
GUIDED BY	:	Amit Rathi & Kulwant Singh
INSTITUTE	:	Manipal University, Jaipur.
YEAR	:	2022

NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

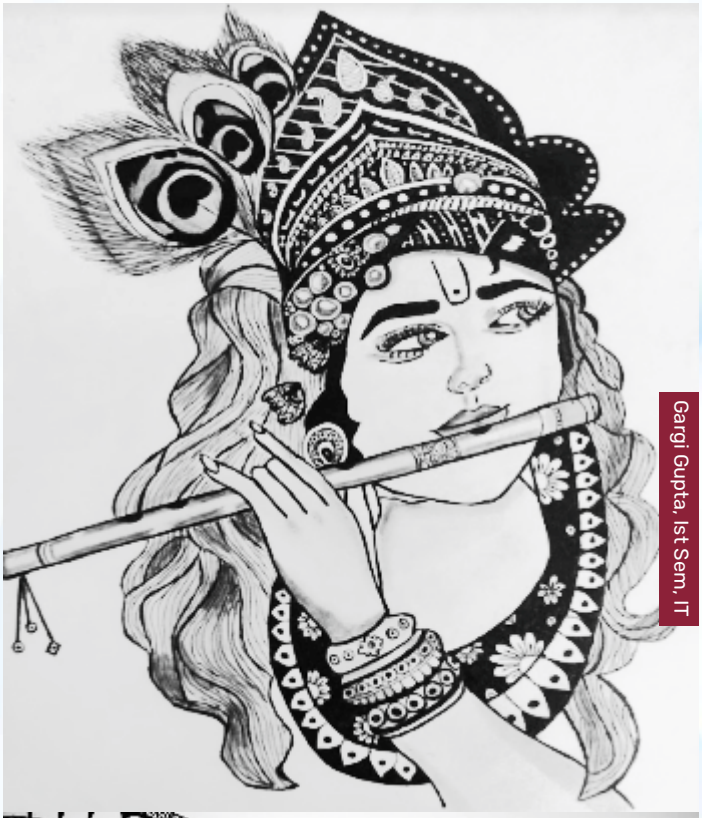
COURSE/ TOPIC	:	System Design through VERILOG
COMPLETED BY	:	Vikas Pathak
DURATION & CATEGORY	:	July to December, 2022 (12-week). Awarded Elite + Gold Certificate, Score in top 1%
COURSE/ TOPIC	:	Introduction to Internet of Things
COMPLETED BY	:	Ankit Agrawal
DURATION & CATEGORY	:	July to December, 2022 (12-week). Awarded Elite Certificate
COURSE/ TOPIC	:	Entrepreneurship
COMPLETED BY	:	Shubhi Jain,
DURATION & CATEGORY	:	July to December, 2022 (12-week). Successfully completed
COURSE/ TOPIC	:	Accreditation and Outcome Based Learning
COMPLETED BY	:	Praveen Kumar Jain
DURATION & CATEGORY	:	July to October, 2022 (8-week). Awarded Elite Certificate
COURSE/ TOPIC	:	Entrepreneurship
COMPLETED BY	:	Neeraj Jain,
DURATION & CATEGORY	:	July to December, 2022 (12-week). Awarded Elite+silver Certificate

Ankit Gupta, 4th Sem, CSE

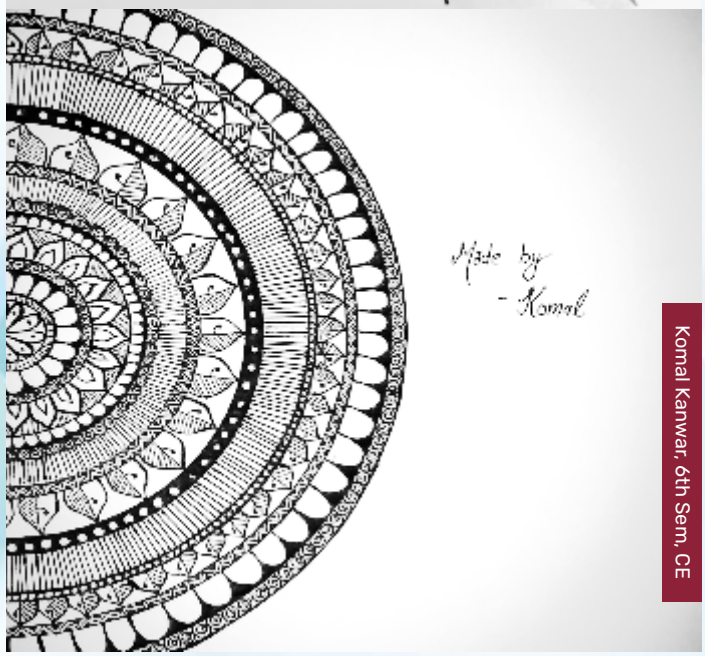
COURSE/ TOPIC	:	Introduction to introduction of things
COMPLETED BY	:	Dinesh Kumar
DURATION & CATEGORY	:	July to December, 2022 (12-week). Awarded Elite Certificate

FACULTY ACHIEVEMENT

Swati Arora, Manju Choudhary and Pooja Choudhary have got a grant of 50,000 Rs for organizing a 'Regional Conclave' of Students' Chapter for western region on the theme 'Futuristic Opportunities in Digital Transformation'.



Gargi Gupta, Ist Sem, IT



Komal Kanwar, 6th Sem, CE

DEPARTMENT OF ELECTRICAL ENGINEERING

WORKSHOP ON 'INDUSTRIAL COMPETENT ENHANCEMENT PROGRAM' ORGANIZED

The Department of Electrical Engineering organized a 3-day workshop on 'Industrial Competent Enhancement Program' in association with IEI Student Chapter from 13 to 15 October, 2022 with an objective to apprise the students of the requirements, prospects and working of different sectors such as Rajasthan power system, corporate sector etc. The participants were explained about different programming languages such as C++, MATLAB, and Python and were also briefed about the importance of communication skills. There were total 9 sessions in the 3-day workshop, each session conducted by an eminent expert. The event was coordinated by Mr. Vikas Ranveer Singh Mahala, Mr.Tarun Naruka, Mr. Akash Deo and Mr. Deepak Saini.

GLIMPSE OF THE WORKSHOP

INDUSTRIAL VISIT TO CHILLA HYDRO POWER PLANT AND BHEL, HARIDWAR ORGANIZED

The Department organized an industrial visit to Chilla Hydro Power Plant and BHEL, Haridwar, Uttarakhand for the students from 26 November to 1 December, 2022 with an objective to educate the students about the salient features of the hydropower generation project and also to introduce them with various construction units of BHEL for developing parts of heavy electrical machines.

The visit was coordinated and guided by Ms. Smriti Jain and Mr. Deepak Saini.

GLIMPSE OF THE INDUSTRIAL VISIT

BOOK CHAPTER PUBLISHED

BOOK : Handbook of Research on Applications of AI, Digital Twin, and Internet of Things for Sustainable Development
AUTHOR/S : Neha Shekhawat, Seema Verma, Ankit Vijayvargiya, Manisha Agarwal, Manisha Jailia
BOOK CHAPTER : A Survey of Weed Identification using Convolutional Neural Networks
PUBLISHER : IGI Global

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE : Application of Hybrid Signal Processing Technique in Protection of Series Compensated Transmission Line
AUTHOR/S : Abhishek Gupta and Ramesh Kumar Pachar
PROCEEDING : Proceedings of IEEE International Conference on Communication, Computing & Industry 4.0 (C2I4-2022), 15 to 16 December, 2022; CMR Institute of Technology, Bangalore.

TITLE : An Attempt to Design and Analysis of Multilevel Converter Topology for Renewable Energy Applications
AUTHOR/S : Jinendra Rahul, Jitendra Singh and Ramesh Kumar Pachar
PROCEEDING : Proceedings of IEEE Power India International Conference, 25 to 27 November, 2022

TITLE : Multi Objective Grey Wolf Optimization based Allocation of SVC in Power System
AUTHOR/S : Ananya Srivastava, Tanuj Rawat, Sarfaraz Nawaz
PROCEEDING : Proceedings of International Conference on Innovative Sustainable Computational Technologies (CISCT-2022), 23 to 24 December, 2022; Graphic Era University, Dehradun

TITLE : Voltage Sensitivity Index based Optimal Placement of SVC in Power System
AUTHOR/S : Ananya Srivastava, Tanuj Rawat, Sarfaraz Nawaz
PROCEEDING : Proceedings of International Conference on Innovative Sustainable Computational Technologies (CISCT-2022), 23 to 24 December, 2022; Graphic Era University, Dehradun

TITLE : A Multi-Agent based Simulator for Strategic bidding in Day-ahead Energy Market.
AUTHOR/S : Pooja Jain, Akash Saxena
PROCEEDING : Sustainable Energy, Grids and Networks

PAPER PRESENTED IN CONFERENCE

TITLE : A Cost-benefit Investigation of Capacitor Placement Problem using Grey Wolf Optimizer Algorithm
AUTHOR/S : Sarfaraz Nawaz, Mehul Mahrishi, Ekta Bhardwaj
CONFERENCE : International Conference on Emerging Technologies in Computer Engineering: Industrial IoT and Cyber Physical Systems (ICETCE-2023), SKIT, 3 to 4 February, 2023

FDPs ATTENDED

TITLE : Trends& Challenges in the Development of Electric Vehicles & Hybrid Electric Vehicles
DATE : 14 to 18 November, 2022
ATTENDED BY : Virendra Swaroop Sangtani, Abhishek Gupta, Suman Sharma, Vikas Ranveer Singh Mahala, Garvit Gupta, Pooja Jain
ORGANIZED BY : Lendi Institute of Engineering & Technology, AP, India

TITLE : Electric Vehicle Opportunities and Challenges
DATE : 16 to17 December, 2022
ATTENDED BY : Virendra Swaroop Sangtani
ORGANIZED BY : Dept. of Electrical Engineering, Jaipur Engineering College, Kukas, Jaipur

TITLE : Research Scope in Electric Vehicles (In collaboration with ANSYS)
DATE : 5 to 9 December, 2022
ATTENDED BY : Abhishek Gupta, Suman Sharma, Jitendra Singh, Vikas Ranveer Singh Mahala, Garvit Gupta, Pooja Jain
ORGANIZED BY : NITTTR, Chandigarh and SKIT, Jaipur

TITLE : Scilab
DATE : 5 to17 December, 2022
ATTENDED BY : Abhishek Gupta, Suman Sharma, Vivek Sharma
ORGANIZED BY : Spoken Tutorial, IIT Bombay and Dept. of ECE, SKIT, Jaipur

TITLE : Emerging Trends in Computational Intelligence
DATE : 19 to 23 December, 2022
ATTENDED BY : Abhishek Gupta, Avadhesh Kumar Sharma
ORGANIZED BY : Manipal University, Jaipur.

TITLE : Research Trends in Artificial Intelligence and Machine Learning for Engineering Challenges
DATE : 6 to 10 December, 2022
ATTENDED BY : Suman Sharma, Vivek Sharma
ORGANIZED BY : MNIT, Jaipur

TITLE : Power Electronics for Renewable Energy Applications
DATE : 31 October to 4 November, 2022
ATTENDED BY : Avadhesh Kumar Sharma, Pooja Jain
ORGANIZED BY : NITTTR, Chandigarh

TITLE : Recent Trends of Machine Learning Applications in Grid Integrated Electrical Vehicles
DATE : 31 January to 4 February, 2023
ATTENDED BY : Vikas Ranveer Singh Mahala, Garvit Gupta
ORGANIZED BY : SKIT, Jaipur (ATAL)

EXPERT TALK DELIVERED

TITLE : Electric Vehicles Opportunities and Challenges
DATE & VENUE : 16 to 17December, 2022 ; Jaipur Engineering College, Kukas, Jaipur
DELIVERED BY : Virendra Swaroop Sangtani

TITLE : Machine Learning Applications on Healthcare
DATE & VENUE : 17 January, 2023; SBCET, Jaipur
DELIVERED BY : Suman Sharma

TITLE : Latest Trends of MOSFET
DATE & VENUE : 12 November, 2022; Jaipur National University, Jaipur
DELIVERED BY : Jinendra Rahul

WORKSHOP ATTENDED

TITLE : Recent Trends of Machine Learning Applications in Grid Integrated Electric Vehicles
DATE : 31 January to 4 February, 2023
ATTENDEDBY : Abhishek Gupta, Avadhesh Kumar Sharma
ORGANIZED BY : Dept. of EE, SKIT, Jaipur

M.TECH. SUPERVISED

DISSERTATION TOPIC : Numerical Simulation Design of Improved Charge Controller and Multi level Converter Topology for Renewable Energy Applications
NAME OF STUDENT : Gaurav Singh Rathore
GUIDED BY : Jinendra Rahul (Guide), Jitendra Singh (Co-guide)

DISSERTATION TOPIC : Design a Clamped based Active Filter for the Single Stage Voltage Boost Power Grid connected System
NAME OF STUDENT : Shalini Verma
GUIDED BY : Bharat Modi

DISSERTATION TOPIC : An Improved Loss Sensitivity Approach for Optimal Allocation of DG at different Penetration Level
NAME OF STUDENT : Gunjan Sharma
GUIDED BY : Sarfaraz Nawaz

NPTEL / mooKIT / IITBX / SWAYAM COURSE COMPLETED

COURSE/ TOPIC : Electrical Machine II
COMPLETED BY : Bharat Modi
DURATION & CATEGORY : July to October, 2022 (12-week). Awarded Silver Certificate

COURSE/ TOPIC : Accreditation and Outcome based Learning
COMPLETED BY : Avadhesh Kumar Sharma
DURATION & CATEGORY : August to October, 2022 (8-week). Awarded Elite Certificate

COURSE/ TOPIC : Accreditation and Outcome based Learning
COMPLETED BY : Pooja Jain
DURATION & CATEGORY : August to October, 2022 (8-week). Awarded Elite+Silver Certificate

FACULTY ACHIEVEMENT

Prof. Ramesh Kumar Pachar and Mr. Abhishek Gupta got IEEE best paper award titled 'Application of Hybrid Signal Processing Technique in Protection of Series Compensated Transmission Line' published in the Proceedings of the 3rd IEEE International Conference on Communication, Computing & Industry 4.0 (C2I4-2022) held from 15 to 16 December, 2022 at CMR Institute of Technology, Bangalore, India.

DEPARTMENT OF CIVIL ENGINEERING

ICI FEST '22 ORGANIZED

ICI Fest '22 was organized from 26 to 27 November, 2022 with an aim to promote industrial collaboration. It comprised of the programmes, 'The Engineer's Saga' & 'The Student Ventures' for the industry persons and students respectively. Events like 'Charcha se Samadhan'- The Tech Talk & The Masters' Meet for students; inter college events like 'Brick O Brick', 'Joist Kwik', 'Bowling Alley', 'Crack the CAD' were held. The key highlight of the fest was the 'Civil Expo' which was an amalgam of technical evolution and innovation. Alumni Meet, 'Walkathon' and 'Cyclothon' were also organized with an objective to spread the message of road safety and health. The Fest was graced by the presence of Mr. Pawan Arora, Commissioner, Rajasthan Housing Board. The coordinators of the event were Mr Anirudh Mathur & Mr. Nishant Sachdeva.

WORKSHOP ON 'DESIGN AND DEVELOPMENT OF SELF-COMPACTING CONCRETE' ORGANIZED

A five-day student workshop on 'Design and Development of Self-compacting Concrete' (DDSCC- 2022) was organized from 9 to 14 December, 2022 in collaboration with NIRMAAN club of SKIT. Dr. Abhishek Jain briefed the participants about the workshop and gave an overview of the schedule of the Workshop. In the inaugural session, Dr. Rakesh Chaudhary welcomed the participants and explained the importance of Self- Compacting Concrete (SCC) and recent developments in construction industry.

GLIMPSE OF THE WORKSHOP

BOOK CHAPTERS PUBLISHED

BOOK	:	Effect of Slope Inclination on V-H and V-M Capacity Envelope of Skip Foundation on Undrained Clay Slope
AUTHOR/S	:	Bharathi M.
BOOK CHAPTER	:	Foundation and Forensic Geotechnical Engineering, Lecture Notes in Civil Engineering,
PUBLISHER	:	Springer, Singapore
BOOK	:	Metro Train-Induced Vibration Measurement on Buildings
AUTHOR/S	:	Bharathi M.
BOOK CHAPTER	:	Earthquakes and Structures, Lecture Notes in Civil Engineering,
PUBLISHER	:	Springer, Singapore

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE	:	Blast Resistance Capacity of Seismically Designed RC Building Frames
AUTHOR/S	:	Sunita Tolani
PROCEEDING	:	ASPS Conference Proceedings, Structural Engineering Convention-22, MNIT, Jaipur
TITLE	:	Effect of Vibration Induced by Dynamic Tests on an Adjacent Building – Finite Element Investigations
AUTHOR/S	:	Bharathi M.
PROCEEDING	:	Proceedings of 17th Symposium on Earthquake Engineering, IIT ROORKEE

PAPER PRESENTED IN CONFERENCE

TITLE	:	Blast Resistance Capacity of Seismically Designed RC Building Frames
AUTHOR/S	:	Sunita Tolani
CONFERENCE	:	Structural Engineering Convention-22, MNIT, Jaipur

FDPs ATTENDED

TITLE	:	Advancements in Concrete Technology
DATE	:	19 to 23 December, 2022
ATTENDED BY	:	Gaurav Gupta
ORGANIZED BY	:	BITM, Belagavi
TITLE	:	Emerging Trends in Computational Intelligence
DATE	:	19 to 23 December, 2022
ATTENDED BY	:	Ankur Mishra
ORGANIZED BY	:	Manipal University, Jaipur
TITLE	:	Recent Trends and Advancements in Computer Science & Engineering
DATE	:	21 to 25 November, 2022
ATTENDED BY	:	Ankur Mishra, Vikas Vyas
ORGANIZED BY	:	SKIT, Jaipur
TITLE	:	Advance Software in Civil Engineering
DATE	:	19 to 23 January, 2023
ATTENDED BY	:	Ankur Mishra, Kishan Lal Jain, Pooja Gupta, Jetender Babulal Jangid, Vikas Vyas, Sitaram Saini
ORGANIZED BY	:	AIET, Jaipur
TITLE	:	Future Developments in Civil Engineering
DATE	:	6 to 10 February, 2023
ATTENDED BY	:	Ankur Mishra, Kishan Lal Jain, Jetender Babulal Jangid, Vikas Vyas
ORGANIZED BY	:	Anand College, Jaipur

Ankit Gupta, 4th Sem, CSE

DEPARTMENT OF MANAGEMENT STUDIES

INDUSTRIAL VISIT TO 'JAIPUR RUGS FOUNDATION' ORGANIZED

The Department of Management Studies organized an industrial visit to 'Jaipur Rugs Foundation' for the students of MBA on 9 November, 2022 in order to provide the students an opportunity to exchange ideas, learn about new techniques, management and smooth running of an organization.

GLIMPSE OF THE INDUSTRIAL VISIT

NATIONAL SEMINAR ON 'NURTURING FUTURE LEADERS' ORGANIZED

One -day national seminar on 'Nurturing Future Leaders' was organized on 12 December, 2022. Mr. Akshaya Goyal, Executive Director, BNI Foundation was the expert speaker for the first session, wherein he discussed about the role of a leader and the desirable skills a leader should have. This was followed by the talk of Ms. Neelam Mittal, Regional Coordinator, BNI Foundation, Jaipur. She emphasized that no one is born a leader, but we all work our way up to become leaders. The second session of the seminar was on skill development of youth for 'Industry 4.0 and Beyond'. In this, Ms. Anshu Harsh, Regional Coordinator, BNI Foundation and Mr. Jaswindra Singh Uppal from Green Field E Resources and President, BNI Moonstone were the expert speakers. They discussed about the qualities of a good leader, the need of the leader to focus on the long term goal while working with co -workers, the definition of a successful leader and the role & responsibilities of emerging leaders. Ms. Meenakshi Solanki, Foundation Coordinator, BNI Onyx and Ms. Vandana Garg, Foundation Coordinator, BNI Moonstone were the experts for the third session on 'Ethical Leadership'. This was followed by the fourth session of the national seminar in

which Ms. Kirti Jain, Secretary/Treasurer, BNI Onyx and CEO of Nutrition Hai Zaruri; Mr. Kush Vaishnav, Mentor Coordinator of BNI Moonstone & CEO, Kreative Kites and Ms. Saloni Sodhani, Vice President, BNI Moonstone & CEO, OM Caters shared the hurdles they faced in their entrepreneurial journey.

The seminar concluded with a valedictory ceremony. Dr. Atul Gupta, Dy. HOD proposed the vote of thanks. The seminar was coordinated by Dr. Ona Ladiwal and Dr. Atul Gupta.

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GLIMPSE OF THE SEMINAR

INTERNATIONAL CONFERENCE ON 'ROLE OF BUSINESS MANAGEMENT AND SOCIAL INNOVATION IN SUSTAINABLE DEVELOPMENT' ORGANIZED

A two- day international conference on 'Role of Business Management and Social Innovation in Sustainable Development' was organized from 12 to 13 January, 2023. The honoured guests were Dr. Rajeev Naruka, CEO of restaurant Pink Adrak; Mr. Akshay Goyal, Executive Director BNI, Jaipur & Mrs. Ranoo Shrivastava, President, Forti Women's Wing. Mr. Akshay Goyal shared his ideas on exporting, foreign currency & the green field project and also discussed about the philosophy of 'givers gain' which his company BNI follows. Mrs. Ranoo Shrivastava stressed on the importance of setting up priorities, creating the opportunities and making one's moral values strong. The keynote lectures were followed by paper presentations. The conference was coordinated by Dr. Ona and Dr. Maneesha Kaushik.

NATIONAL SEMINAR ON 'ANALYSIS OF UNION BUDGET-2023' ORGANIZED

One-day national seminar on 'Analysis of Union Budget-2023' was organized on 11 February, 2023 for the students of Management studies. The Chief Guest, Mr. Bharat Sharma, Founder and Director, Stocnerv set the tone for the discourse by raising several points pertaining to budgetary reforms in India such as certainty and continuity in the policy decisions ease of compliances, new tax regime for taxation at concessional rates for individual and HUF and for new manufacturing co-operatives setup, taxation of deemed accrual of gift made to residents provisions for taxation of start-up–amendment to section 80IAC and section 79 and Payment to MSME–amendment to section 43B. CMA Akshay Sen and Mr. Manish Kukreja, Director, UPSkill Commerce Classes were the keynote speakers. They discussed about the direct tax provisions, fiscal deficit, income tax law, and increase in the per capita income.

The student oriented panel discussion was also organized in which panelists discussed the impact of budget on various sectors of economy. Students presented their views with full enthusiasm. The seminar concluded with a valedictory ceremony. Dr. Atul Gupta, Dy. HOD and event coordinator proposed the vote of thanks.

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GLIMPSE OF THE INDUSTRIAL VISIT

Gargi Gupta, Ist Sem, IT

DEPARTMENT OF BASIC SCIENCES & HUMANITIES

DEPARTMENT OF ENGLISH

PULSE : PROGRAMME FOR UNDERSTANDING AND LEARNING SPOKEN ENGLISH ORGANIZED

A three-week 'Programme For Understanding And Learning Spoken English-PULSE' was organized by the Department of English as a part of induction programme for the newly inducted B.Tech first year students from 7 to 26 November, 2022 with an objective to train them in the four skills of language learning to make them industry ready. The coordinators of the programme were Dr Neha Purohit, Prof. Krishna Sharma, Dr Anupriya Singh and Dr Shipra Malik.

GLIMPSE OF THE PROGRAMME

BOOKS PUBLISHED

TITLE	:	Communicative English for B.SC Nursing Students
AUTHOR	:	Sheeba Anjum
PUBLISHER	:	NeelKanth Publishers (India)
TITLE	:	Human Values
AUTHOR/ S	:	Krishna Dayal Sharma, Anupriya Singh, Priyanka Bhaskar and Shipra Malik
PUBLISHER	:	RBSA Publishers (India)

BOOK EDITED

TITLE	:	Technology Trends in Higher Education
EDITOR/S	:	Dr. Diptirani Rath, Ms. Divya Jyot Kaur, Mr. K.Biplob Singha, Dr. Sayeda Khanam Pathan, Ms. Sharika T.R.
PUBLISHER	:	A2Z EDU Learning Hub LLP

MOOC DESIGNED

COURSE	:	English Grammar for Competitive Exams
DESIGNED AND DELIVERED BY	:	Ms. Divya Jyot Kaur
PROJECT BY	:	IIIT, Kota

FACULTY ACHIEVEMENT

Dr. Nidhi Sharma has contributed as a resource person in developing a Massive Open Online Course (MOOC) for 'English Grammar for Competitive Exams' and 'Professional Communication Skills' designed by Data Analytics as a joint venture between IIIT Kota and the Directorate of Education, Government of Rajasthan.

Dr.Nidhi Sharma has also been appointed as the reviewer in Cogent Arts and Humanities, Scopus Journal published by TAYLOR & FRANCIS, UK

DEPARTMENT OF PHYSICS

WORKSHOP ON 'LEARNING PHYSICS THROUGH SIMPLE EXPERIMENTS' ORGANIZED

A two-day student workshop on 'Learning Physics through Simple Experiments' (LPSE-2023) was organized in collaboration with Indian Association of Physics Teachers, Rajasthan Chapter (IAPT-RC6) from 24 to 25 January, 2023. Prof. Y. K. Vijay, President, IAPT-RC6 was the Chief Guest; and Dr. Vipin Kumar Jain, J K Lakshmipat University was the Guest of Honor. Prof. Vijay discussed about the fundamentals of Quantum Physics through simple experiments, while Dr. Vipin Kumar Jain explained the basics of electronics and optics through self-developed models. The sessions were interactive and participants learned by performing the experiments themselves. Dr. Komal Sharma, Dr. Manasvi Dixit and Mr. Rajiv Kumar were the coordinators of the event.

GLIMPSE OF THE WORKSHOP

WORKSHOP ON 'VIRTUAL PHYSICS LAB' ORGANIZED

A three-day student workshop on 'Virtual Physics Lab' was organized from 31 January to 2 February, 2023. About 350 students attended the workshop. Mr. Rajiv Kumar and Mr. Pawan Kumar Jain introduced the students with the objective and philosophy of virtual lab developed by IITs and other reputed institutes. All the sessions were interactive and participants learned a lot by performing the experiments themselves. Mr. Rajiv Kumar, Mr. Pawan Kumar Jain and Dr. Ajay Kumar Sharma were the coordinators of the event.

GLIMPSE OF THE WORKSHOP

PAPERS PRESENTED IN CONFERENCES

TITLE : Size Reduction of a Circularly Polarized Ring Slot Antenna using Asymmetrical Rectangular Slots and a Parasitic Patch for a Radio Beacon on a Nanosatellite
AUTHOR/S : B.R. Sharma, Vinita Mirdha, Deepak Bhatnagar,
CONFERENCE : International Conference on Information Management & Machine Intelligence (ICIMMI 2022), Poornima Institute of Engineering & Technology, Jaipur; 23 to 24 December, 2022

FDPs ATTENDED

TITLE : Emerging Trends in Computational Intelligence with Hands on Session
DATE : 19 to 23 December, 2022
ATTENDED BY : B.R. Sharma, Komal Sharma, Manasvi Dixit
ORGANIZED BY : Manipal University, Jaipur

TITLE : Recent Advancements in Science & Engineering
DATE : 26 to 30 December, 2022
ATTENDED BY : B.R. Sharma
ORGANIZED BY : Regional College for Education Research and Technology, Jaipur

NPTEL/moo KIT/ IITBX/SWAYAM COURSE/S COMPLETED BY FACULTY

COURSE/ TOPIC : Accreditation and Outcome Based Learning
COMPLETED BY : Rishi Vyas
DURATION & CATEGORY : August to October, 2022 (8-week), Awarded Elite Certificate and Silver Medal (SWAYAM NPTEL)

COURSE/ TOPIC : Applied Optics
COMPLETED BY : Manasvi Dixit
DURATION & CATEGORY : July to October, 2022 (12-week), Awarded Elite Certificate and Silver Medal (SWAYAM NPTEL)

COURSE/ TOPIC : Classical Electromagnetism - 2 (Magnetostatics)
COMPLETED BY : B.R. Sharma, Rishi Vyas, Komal Sharma, Rajiv Kumar, Manasvi Dixit, Ajay Kumar, Pawan Kumar Jain
DURATION & CATEGORY : August to December, 2022, (Centre for Continuing Education, IIT, Kanpur)

DEPARTMENT OF MATHEMATICS

SEMINAR ON 'MATHEMATICAL MODELING IN ENGINEERING SCIENCES' ORGANIZED

A one-day seminar on 'Mathematical Modeling in Engineering Sciences' was organized on the occasion of the Foundation Day of Gwalior Academy of Mathematical Sciences on 12 December, 2022. The Chief Guests of the event were Prof. V.P. Saxena, former Vice Chancellor, Jiwaji University, Gwalior and Prof. Praveen Agarwal, Vice Principal, Anand International College of Engineering.

Professor Saxena highlighted the importance of Mathematical Models and explained, that apart from natural science and technology, they are also used in social sciences like Economics, Sociology and Political Science.

He also gave a lecture on 'Mixed Boundary Value Problem and Saxena I function'. Professor Agarwal discussed about Mathematical Modeling and Special Functions in very simple and easy words. Prof. Amber Srivastava, HOD Mathematics proposed the vote of thanks.

GLIMPSE OF THE SEMINAR

BOOKS PUBLISHED

TITLE : Engineering Mathematics-I, Engineering Mathematics-II, Advanced Engineering Mathematics-I, Advanced Engineering Mathematics-II, (2022)

AUTHOR/S : Dr Amber Srivastava, Dr Rohit Mukherjee
PUBLISHER : Genius Publications (India).

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

PAPERS PRESENTED IN CONFERENCES

TITLE : Investigation of Oldroyd-B fluid Flow and Heat Transfer over a Stretching Sheet with Non-linear Radiation and Heat Source
AUTHOR/S : Surbhi Sharma
CONFERENCE : ICRWDIM-2022, Department of Mathematics, University of Rajasthan

TITLE : Solution of Space Time Fractional Equation by Natural Transform Decomposition Method
AUTHOR/S : Sangeeta Choudhary
CONFERENCE : ICRWDIM-2022, Department of Mathematics, University of Rajasthan

CONFERENCE ATTENDED

TITLE : International Conference on Real World Domains and Interfaces in Mathematics: Challenges Tools & Strategies
DATE : 17 to 18 December, 2022
ATTENDED BY : Surbhi Sharma, Sangeeta Choudhary
ORGANIZED BY : Department of Mathematics, University of Rajasthan

FDPs ATTENDED

TITLE : Research Methodology using SPSS
DATE : 31 December, 2022 to 6 January, 2023
ATTENDED BY : Surbhi Sharma
ORGANIZED BY : Suresh Gyan Vihar University, Jaipur

TITLE : Directorate of Teacher Empowerment Center
DATE : 19 to 23 December, 2022
ATTENDED BY : Vijay Kumar Singhal
ORGANIZED BY : Manipal University, Jaipur

TITLE : Emerging Trends in Computational Intelligence
DATE : 19 to 23 December, 2022
ATTENDED BY : Sangeeta Choudhary, Shalini Shekhawat, Jyoti Arora
ORGANIZED BY : Manipal University, Jaipur

TITLE : Spoken Tutorial on Scilab
DATE : 5 to 17 December, 2022
ATTENDED BY : Shalini Shekhawat
ORGANIZED BY : SKIT, Jaipur

NPTEL / mooKIT / IITBX / SWAYAM COURSE COMPLETED

COURSE TOPIC : Mathematical Methods and its Applications
COMPLETED BY : Chandra Prakash Jain, Vijay Kumar Singhal, Nawal Kishor Jangid
DURATION & CATEGORY : 25 July to 19 October, 2022 (12-week)

COURSE TOPIC : Mathematics for Economics -I
COMPLETED BY : Pramila Kumawat
DURATION & CATEGORY : 25 July to 14 October, 2022 (12-week)

COURSE TOPIC : Public Speaking
COMPLETED BY : Chandra Prakash Jain, Deepika Jain
DURATION & CATEGORY : 25 July to 19 October, 2022 (12-week)

COURSE TOPIC : Essential Mathematics for Machine Learning
COMPLETED BY : Vivek Vijay, Vijay Kumar Singhal, Shalini Shekhawat
DURATION & CATEGORY : 25 July to 19 October, 2022 (12-week)

COURSE TOPIC : Soft Skills
COMPLETED BY : Surbhi Sharma
DURATION & CATEGORY : 25 July to 19 October, 2022 (12-week)

COURSE TOPIC : Problem Solving through Programming in C
COMPLETED BY : Jyoti Arora
DURATION & CATEGORY : 25 July to 19 October, 2022 (12-week)

COURSES MENTORED

MENTOR/S		COURSE/S
Chandra Prakash Jain, Deepika Jain	:	Public Speaking
Surbhi Sharma	:	Problem Solving through Programming in C
Surbhi Sharma, Jyoti Arora	:	Soft Skills

DEPARTMENT OF CHEMISTRY

WORKSHOP ON 'VIRTUAL CHEMISTRY LAB' ORGANIZED

A workshop on 'Virtual Chemistry Lab' was organized from 6 to 11 February, 2023 with an objective to create a virtual learning space that will enable students to conduct experiments individually or in groups via internet. In this continuous learning process, the students and the teachers learned a lot about the theories of volumetric analysis. Prof. Vinita Sharma coordinated the event.

GLIMPSE OF THE WORKSHOP

WORKSHOP ON 'VOLUMETRIC ANALYSIS AND QUALITY DETERMINATION OF LUBRICANTS AND COAL' ORGANIZED

A workshop on 'Volumetric Analysis and Quality Determination of Lubricants and Coal' was organized for the students of I year from 9 to 10 February, 2023 with an objective to educate the students through practical demonstration of titration procedures like Redox titration, Acid-Base titration, Complexometric method, Iodometric method, External Indicator method, and Double Indicator method. This was followed by another session in which the students were made to learn the handling of Redwood Viscometer, Pensky Martein apparatus, Flash and Fire Point apparatus, Hot Air Oven and Muffle Furnace. Dr. Poonam Ojha and Dr.Anurag Sharma were the coordinators of the event.

GLIMPSE OF THE WORKSHOP

EXTENSION LECTURES SERIES ON 'ENGINEERING CHEMISTRY' ORGANIZED

The extension lecture series on 'Engineering Chemistry' was organized for B.tech. I semester students from 7 to 10 February, 2023. The expert speakers Prof. Purnima Nag, Jaipur National University, Jaipur; Prof. Sarita Choudhary, VGU, Jaipur and Dr. Meena Nemiwal , MNIT gave lectures on various topics such as Modern and Alternative Fuels, Cement and Glass Manufacturing, Advanced Techniques of Water Purification, Mechanism of RO Purification etc. Around 400 students participated in the programme. Dr. Swati Joshi was the coordinator of the event.

GLIMPSE OF EXTENSION LECTURES SERIES

PAPERS PRESENTED IN CONFERENCES

TITLE	:	Review on Disinfection of Water by Nanomaterials
AUTHOR/S	:	Poonam Ojha
CONFERENCE	:	International Conference on Emerging Trends in Environmental Sustainability (ICETES-2023), 20 to 21 January, 2023; Agarwal PG College, Jaipur
TITLE	:	Role of Green Nanomaterials on Water Remediation
AUTHOR/S	:	Poonam Ojha
CONFERENCE	:	International conference on Green Energy & Sustainable Environment Practices (GESEP-2023), 30 to 31 January, 2023; University of Rajasthan, Jaipur
TITLE	:	Nanomaterials for Water Reclamation
AUTHOR/S	:	Swati Joshi
CONFERENCE	:	International conference on Emerging Trends in Environmental Sustainability (ICETES-2023), 20 to21 January, 2023; Agarwal PG college, Jaipur
TITLE	:	Nanomaterials: Water Remediation
AUTHOR/S	:	Swati Joshi
CONFERENCE	:	International conference on Green Energy & Sustainable Environment Practices (GESEP-2023) 30 to 31 January, 2023; University of Rajasthan, Jaipur

NPTEL / mooKIT / IITBX / SWAYAM COURSE/S COMPLETED

COURSE/ TOPIC	:	Soft Skills
COMPLETED BY	:	Swati Joshi
DURATION & CATEGORY	:	July to October, 2022 (12-week)

COURSES MENTORED

MENTOR/S	:	COURSE/S
Swati Joshi	:	Soft Skills
Poonam Ojha	:	Soft Skills

Universal Human Values

Universal human values are the fundamental principles and beliefs that are shared by people all around the world, regardless of their cultural, religious and social background. These values are an intrinsic part of human nature and shape our perceptions, behaviors, and attitudes towards ourselves and others.

Some of the universal human values include:

1. Respect: Respect is the foundation of all human interactions. It involves recognizing the inherent worth of each individual, irrespective of their differences. Respecting the choices, opinions, and beliefs of others helps in promoting harmonious coexistence among people.

2. Compassion: Compassion is the act of showing kindness, understanding, and empathy towards those in need. It shows that we care and value the lives of others, regardless of their situation or background.

3. Honesty: Honesty is essential in building trust and credibility. It involves being truthful and transparent in all your dealings while also respecting the privacy of others.

4. Responsibility: Responsibility is the obligation to take care of one self and others. It involves making ethical decisions, being accountable for one's actions, and taking the initiative to contribute positively to society.

5. Fairness: Fairness is critical in promoting equality and justice. It involves treating everyone equally, and without bias, discrimination or favoritism, irrespective of their background, race, or status.

6. Forgiveness: Forgiveness is the ability to overlook the faults and mistakes of others, without seeking retribution or revenge. It involves showing empathy, compassion, and a willingness to move past the hurt, with a view to healing relationships and promoting reconciliation.

7. Gratitude: Gratitude involves recognizing and appreciating the beauty and goodness in life, while also expressing thanks for the kindness and blessings that one has received.

Universal human values are essential in promoting peaceful coexistence, social justice, and human dignity. While various cultures, religions and societies may have different expressions of these values, the underlying principles remain the same. By practicing these values in our daily lives, we can contribute to making the world a better, more just and compassionate place for all.

Prof. Archana Saxena, Convenor, UHVEC

सृजन

ख्वाहिश

ख्वाबों के पिटारे में बस एक ख्वाहिश है।
बंदिशों से आजादी बस इतनी फरमाइश हैं।।

कुछ हैं उलझने मन में, तो कुछ हैं बंधन जीवन में,
कुछ पास होकर भी दूर हैं, तो कुछ दूरियों को मिटाने की आजमाइश है।
बंदिशों से आजादी बस इतनी फरमाइश हैं।।

ये तपिश क्रोध की है नहीं, ये आग विरोध की है नहीं
जिंदा तो मैं हूँ ना अब भी, ये तो फकत अरमानों की दफनाइश हैं।
बंदिशों से आजादी बस इतनी फरमाइश हैं।।

मत कहो तुम महान मुझे, हाँ नहीं भाता ये जहान मुझे,
कोमल कह दे जरा अब सब से,
भीड़ की नहीं, लोगो की ख्वाहिश हैं।
बंदिशों से आजादी बस इतनी फरमाइश हैं।।

ख्वाबो के पिटारे में बस एक ख्वाहिश है।
बंदिशों से आजादी बस इतनी फरमाइश हैं।।

Komal Kanwar Korawat
6th Sem, Civil Engineering

अस्तित्व

और फिर आज ला-इल्म सी एक बात दिल में घर कर गयी
तुम अपनी जिंदगी का मरकजी-किरदार किसी और को क्यों बनाने में लग गयी ?
जो कोई खयाल बनकर आए भी
तो उसे महज खयाल ही रहने दो
उसे चाँद बना कर अपने माथे पर क्यों सजाने लग गयी ?
तुम यूँ ही तो अच्छी हो
अपने रंग में ही तो जचती हो
किसी और के रंग में रंग अपना अस्तित्व क्यों खोने लग गयी ?
तुम बहुत नायाब हो
कीच में खिलते कमल के समान हो
देखेंगे भेड़िये तुम्हे नोच -खाने को
मगर याद रखना तुम इस जंगल में भद्रकाली का एक निशान हो
तुम जीवन की प्रेरणा बनकर उभरो
इस समाज की स्त्री-कल्पना बनकर उभरो
उभरो तुम ऐसे जैसे हीरा निकलता है कोयले की खदान से
रहमत बनो ऐसे जैसे पानी मिलता है किसी प्यासे गांव से
तुम आखिर क्यों लोगो के अंतर्मन का एक हिस्सा बनकर रह गयी ?
तुम आखिर क्यों अपना अस्तित्व खोने लग गयी ?

Ayushi Garg
I Sem, CSE

वह बहुत छोटी थी

घर में जन्मी थी नन्ही गौरैया,
देख भयभीत हो गई उसकी मैया !!

आस-पास था कौवों का डेरा,
ऊपर से फिर घना अंधेरा !!

मुरझा ना जाए मेरी कोमल कली,
बड़ी मुश्किलों से है जिंदगी मिली !!

रखा बचाकर सबसे माँ ने, पर अब बिटिया हुई सयानी थी,
अब तक तो था प्राक्कथन, पर अब शुरू हुई उसकी कहानी थी !!

पहली बार फैलाए पर, घोंसले से निकली बाहर है
बड़ा है आसमां, कमजोर है पर
मालूम है उसे भी शाम को जल्दी लौटना है घर!!

आज उसे भी ये दुनिया दिख रही थी,
धीरे धीरे औरों से मिलना वो भी सीख रही थी !!

पूरी भी न हुई थी, उड़ान अभी बाकी थी !
अभी अभी तो वो नादान घोंसले से बाहर झांकी थी!!

नोच गया एक झुंड कौवों का, उसके सपनों की दुनिया को,
बेढंग और कमजोर कह दिया, लोगों ने उस चिड़िया को !!

नहीं देखा फिर किसी ने भी, की वह कितना रोती थी,
जिसने भी यह व्याख्यान सुना, बोला चिड़िया छोटी थी !!

गलती थी दरिंदों की भी कुछ,
या सच में चिड़िया छोटी थी ?
क्या सच में चिड़िया छोटी थी ?

Komal Kanwar Korawat
6th Sem, Civil Engineering

घर की नीव : पिता

एक छोटी कमाई में कई सपनो को
पूरा करना होता है।।
यूँ ही नहीं जब शाम को घर लौटकर सबका
पेट भरना होता है।।
कष्टों में खुद को भूखा रख घर के मुखिया का
फ़र्ज़ अदा करना होता है।।
दुखों को खुशियों में छुपा कर रखना
होता है।।
अपने सपनों को बच्चो के सपनों में
ढूंढना होता है।।
परिवार के समक्ष शीला बन कर तत्पर
रहना होता है।।
जिसका वित्त व गौरव उसका कुटुंब हो।
वो है पिता।।

Tisha Saini
I Sem, ECE

POEMS

TEENAGE

End of my teenage.
End of an era.
End of a line &
End of a para.

It was all not smooth..
It was all not rough...
It was all not honest..
It was not all bluff...

The lines to my aim..
didn't go all straight...
I could have got them..
If I didn't fall for the bait...

Still a lot to achieve...
Still a lot to find...
Still a lot to do...
For me and for the mankind...

Well thanks to all those who were there
and to Those who are...
You are still near to my heart
than you are far...

Removing all grudges which I use to hold...
It takes too much heart, but I am going to play it bold...

Shikhar Gupta
4th year, CSE

BEAUTIFUL MORNING

As the door opened,
The dawn touched her cheeks,
With its magical, pristine fingers
Greeting with a sunshine smile,
Sets straight the complex curves of life
As a fresh whiff of air blows off,
The gathered dust of time
Layered, on the internal visage

The happy nodding of the leaves,
Gears up the bogged down spirit
And dances away,
The sorrows with delight
The magic of the white clouds
Drifting freely in the sky

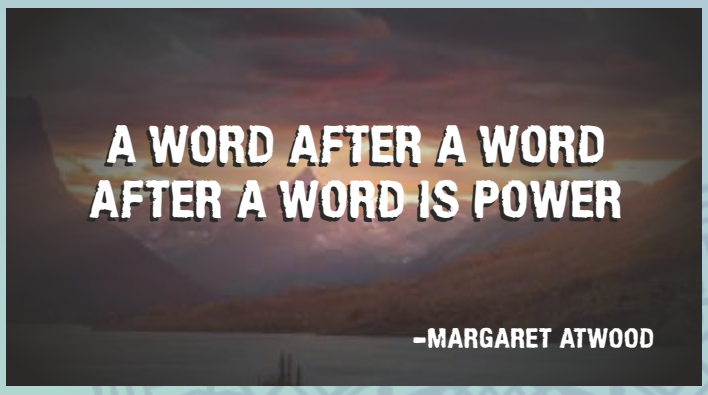
Scuds away the soul,
Into a complacent, candid serenity

Ripples of pure water
Stir the practical heartbeat
With noble and warm emotions
Forgotten long ago!
The celestial symphony,
In the soulful notes of Nature,
Tune a fragment into the whole
Manifesting the divine

Shoving aside the frivolities of life,
She feels eternal bliss
As she delights upon the ambrosia,
From Her vast cup
The sufferings and sorrows,
Dissipate from her mind
Like the steam from her cup,
Mingling into the mystical air.

Dr. Shipra Malik
Associate Prof.,
Department of English

Gargi Gupta, Ist Sem, IT



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