



SWAMI KESHVANAND INSTITUTE OF
TECHNOLOGY, MANAGEMENT & GRAMOTHAN

वार्षिक अंक - 54



BY
RAJASTHAN TECHNICAL
UNIVERSITY (RTU), KOTA



CONSECUTIVELY FOR 6th YEAR

THE SKIT TIMES



*"Keep your thoughts positive because your thoughts become
your words. Keep your words positive because your words
become your behavior. Keep your behavior positive
because your behavior becomes your habits. Keep
your habits positive because your habits become your values.
Keep your values positive because your values
become your destiny."*

By Mahatma Gandhi



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VISION

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

MISSION

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

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THE EDITOR SPEAKS

HUMAN VALUES AND ITS RELEVANCE IN TECHNICAL EDUCATION

It is said that 'Education is something that is left after you have forgotten all that you learnt in school'. Human Values not only teaches us about ethics but also creates a right understanding about other aspects such as material, societal, psychological, aesthetic, and spiritual. A melodious synchronization of all these values helps us evolve into a true human being.

The issues in professional ethics are becoming very complex in the current scenario. The unethical practices are rapidly increasing and their impact is far-reaching. Corruption in diverse manifestations is afflicting all the professions like a virus. Hence, there is a dire need that the objectives of education should be clearly defined and be made understood to the students especially those of professional and technical courses like Engineering, Management, Medicine, Law etc. As the population of the world is increasing exponentially, the service of technocrats to the human race is becoming more and more important. It is desirable that engineers should develop a good and practical sense of human values, so that, they can play a productive role in the development of society.

Adequate research effort is needed to evolve and implement the models of such an education. Inculcation of right understanding at all the four levels- from self to entire existence, and development of competence to live in accordance with it forms the core of humanistic education

Dr. Anupriya Singh
EDITOR-IN-CHIEF

- MESSAGES -



Shri Jaipal Meel
Director

As India moves on with its robust economic growth and indispensable participation in the global socio-economic progress, the need to create globally adaptable, culturally rooted and well-versed technocrats becomes all the more essential.

Our commitment is to provide conducive and encouraging environment for the growth of quality education, effective industry- academia interface and constructive research. All these efforts ensure enhanced employability of our students and enable them to keep abreast with the latest global technological advancement so that SKITians are in a position to lead the leaders.

I congratulate all the students and faculty for their conscientious and prompt efforts culminating into this commendable progress of SKIT.



Prof S.L Surana
Director Academics

Excellence is a virtue that needs to be imbibed, inculcated and practiced in order to achieve sustainable growth in the present sharp edged world.

There is a dire need of investment in promoting research and development activities and upholding the standards of related paraphernalia and attracting and retaining the best talent in teaching fraternity so that the quality standard of teaching- learning process can be made globally competitive.

The industry should also come forward more vigorously to bridge the gap between industry and academia and provide the students with onsite experience because industry is the ultimate stakeholder that is going to exploit the talent and skill-set of the technocrats-in-making.

My greetings to the editorial board to keep the good work.



Prof. Ramesh Kumar Pachaar
Principal

Learning should be based on doing things. Students should interact with their environment to adapt and learn. Albert Einstein has rightly said, "The only source of knowledge is experience." In keeping with the spirit, SKIT is dedicated to creating personally mature, professionally equipped and service-oriented graduates.

We strongly believe in academic excellence and do not compromise on teaching standards and discipline which play an important role in making the lives of students.

I heartily congratulate the entire team for bringing out the annual issue of SKIT TIMES which is indeed a tedious and herculean task.

- COVER STORY -

Universal Human Values & Ethics Committee (2022-23)

In a bid to foster a culture of universal human values and ethics among students, the Universal Human Values and Ethics Committee (UHVEC) organizes a series of impactful activities aimed to instill moral and ethical principles, to promote personal growth, and to enhance the overall well-being of the students. The committee's efforts include orientation workshops for B.Tech I year students, Faculty Development Programs (FDP) on Universal Human Values (UHV), Sinjara Utsav, Yoga Day celebration, Teacher's Day etc. UHVEC celebrates all the commemorative days and organizes workshops on code of conduct.

The orientation workshop held for the first-year B.Tech students for the session 2022-23 proved to be an insightful and transformative experience. Led by renowned experts in the field of human values and ethics, the workshop introduced the students with the fundamental principles such as empathy, integrity, and respect for diversity. Through interactive sessions and engaging activities, the students gained a deeper understanding of the significance of these values in their personal and professional lives.

Continuing its efforts to promote universal human values among faculty members, the UHVEC organized an FDP on UHV. Esteemed speakers and academicians shared their expertise on integrating ethics and values into the teaching-learning process. The program focused on empowering educators to be role models and mentors, guiding students to develop a strong moral compass.

One of the highlights of the UHVEC's activities was the vibrant Sinjara Utsav, which celebrated the diversity and cultural heritage of the institution. The event showcased various art forms, music, dance, and traditional cuisines from different regions. Through this celebration, the committee aimed to promote inclusivity, foster harmony, and encourage everyone to embrace and appreciate different cultures.

The UHVEC also actively participated in the annual Yoga Day celebration. Recognizing the immense physical, mental, and spiritual benefits of yoga, the committee organized a series of yoga sessions and workshops. Students were introduced to various yoga asanas, breathing exercises, and meditation techniques, which helped them develop a holistic approach towards their well-being.

Furthermore, the committee organized a special event on Teacher's Day to express gratitude and acknowledge the invaluable contributions of educators. Students actively participated in various activities, including heartfelt speeches, musical performances, and creative tributes to honour their teachers. The event served as a reminder of the profound impact teachers have on shaping the character and future of their students.

UHVEC firmly believes that cultivation of ethical principles and moral values not only shapes the students' personal growth but also help in nurturing a compassionate and responsible citizenry.

Prof. Archana Saxena
Convenor – UHVEC (2022-23)

CAMPUS PLACEMENTS 2023

HIGHEST PACKAGE 36 LPA

Cognizant	82	Concretio	7	SpanIdea	2
TCS	65	ICICI	7	Adobe	1
Hexaware Technologies	62	Jio Platform	7	Amazon	1
InTime Tec	51	ReNew Power	7	Chokhi Dhani Resorts	1
Pinnacle Infotech Solutions	41	Aviotron Aerospace	6	Corr Innovations	1
Infosys	36	Cloud Mentor	6	Decurtis	1
Metacube	33	Infoobjects	6	Digital Orix	1
Consultadd	32	Prism Johnson	6	Imagine Wings	1
Thrillophilia.com	29	Techinterio	6	IRA Engineering Industries	1
AurigaIT	25	Thinkvibes	6	Junglee Games	1
Cyntexa	25	Torrent Gas	6	Newgen Software Technologies	1
Hanu An Insight Company	23	Unthinkable Solutions	6	PropertyLoop	1
Celebal Technologies	22	Atrium	5	Q3 Technologies	1
Hei Power System	20	Habilelabs	5	Quinbay Technologies	1
Junomoneta Finsol	19	NAV	5	Saras Solutions	1
eInfochips	14	Polycab	5	Sarvika Technologies	1
Quantiphi	14	Telerad Tech	5	Shopflo Technologies	1
Airlinq	12	Briskminds Software Solutions	4	STP	1
Appcino Technologies	12	Juspay	4	Theme Engineering	1
Design2Occupancy	11	Nanoinformatrix	4	Yashram Lifestyle Brands	1
Innoraft	11	SARV	4	Zucol	1
Cape Electric	10	Vaibhav Global	4		
Sopra Steria	10	Axestrack Software	3		
AppPerfect	9	Byjus	3		
NESSCO	9	Jalan Technologies	3		
RoboMQ	9	Bout India	2		
SOTI Inc	9	Genus Innovation	2		
Genus	8	Odoo IN	2		
				TOTAL SELECTION	861
				Still continuing	

CAMPUS PLACEMENTS 2022

Cognizant	118	AppPerfect	6	Amica Financial Technologies	1
Infosys	64	Genus	6	Blazeclan Technologies	1
Thrillophilia	60	Minimalist	6	Carrier Corporation	1
InTime Tec	54	BigStep Technologies	5	eInfochips	1
Wipro	52	Concretio	5	Exotic Learning	1
TCS	40	Harman Kardon	5	Jio Haptik Technologies	1
Pinnacle Infotech Solutions	33	Adnate IT Solutions	4	Magic EdTech	1
Pratham Software	30	American Chase	4	Manikaran	1
AurigaIT	29	Indus Towers	4	Media Tech Temple	1
Celebal Technologies	29	SevenX	4	Nagarro	1
Metacube	27	Byju's	3	NeoSOFT Technologies	1
ATCS	25	Cloud Mentor	3	Pinaca Technologies	1
Unthinkable Solutions	21	Jalan Technologies	3	SpanIdea Systems	1
Cyntexa	19	KDK Software	3	Sysquare	1
Juspay	13	LiuGong	3	Toluna	1
RoboMQ	13	Tata Power	3	Vmware	1
Capgemini	12	Torrent Gas	3	ZNet Technologies	1
GR Infraprojects	11	Appcino	2	Autodesk	1
Quantiphi Analytics Solutions	11	Aviotron Aerospace	2		
Atrium	10	BNP Paribas	2		
Desire Energy Solutions	9	Gamix Labs	2		
Axestrack Software	8	Sophos Technologies	2		
Habilelabs	8	Teleperformance	2		
Jaro Education	8	Alsisar Impact	1		
MTX	8	Altimetrik	1		
				TOTAL SELECTION	814



BREAKTHROUGH

SKIT TOPS RANKINGS IN QUALITY INDEX VALUE FOR SIXTH YEAR

In the Quality Index Value (QIV) issued by RTU for the ranking of colleges, SKIT retained the first position for the sixth consecutive year. Shri Jaipal Meel, Director, SKIT expressed his elation at this spectacular feat and said, 'This is the result of the hard work of the entire team of SKIT and the dedication of the students.'

SKIT GOT AWARD FOR 'EXCELLENCE IN EDUCATION'

SKIT achieves another feather in its cap with 'Excellence in Education Award' by 'First India News' for its remarkable contribution in the field of technical education in Rajasthan. Mr. Aniruddh Mathur, Associate Professor, Dept. of Civil Engineering SKIT received the award from Dr. B.D. Kalla, Minister of Sanskrit Education, Rajasthan.



GLIMPSE OF AWARD CEREMONY

SKIT RECEIVED AWARD FOR 'EXCELLENCE IN TECHNICAL EDUCATION'

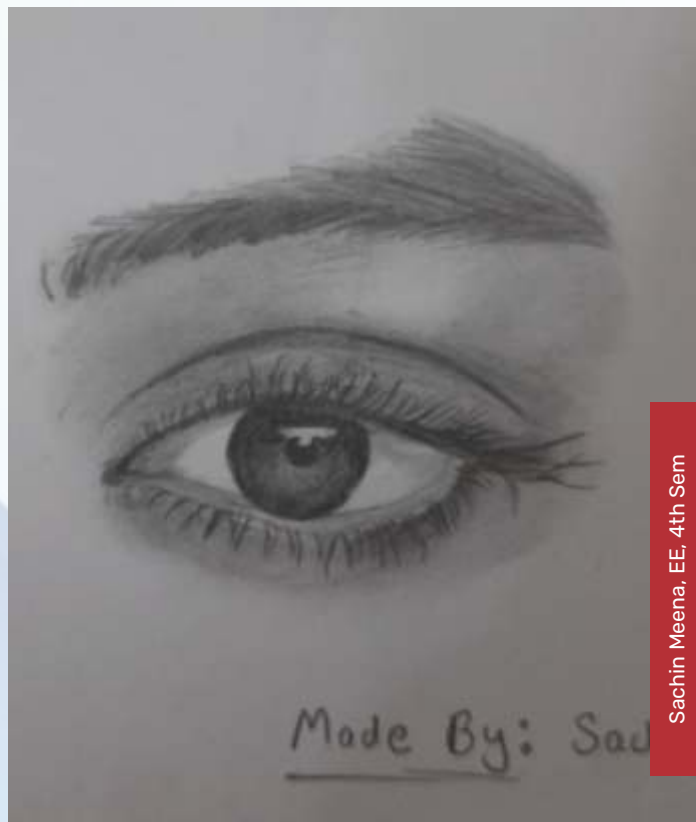
SKIT continued its journey of success by winning an Award for 'Excellence in Technical Education', 2023; an initiative by 'First India News' and supported by Bharat 24. Prof. Mukesh Arora, Head, Dept. of Electronics, SKIT received the award. Shri Jaipal Meel, expressed his gratitude on behalf of the entire SKIT family.



GLIMPSE OF CEREMONY

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.



Sachin Meena, EE, 4th Sem

NEWS FLASH

SKIT HONOURED FOR RENDERING SERVICE TO SOCIETY

SKIT got the honour for organizing regular and frequent blood donation camps on the occasion of 'World Blood Donors Day' on 14 June, 2023 at Sawai Mansingh Hospital. SKIT has always shown keen interest in doing social service under the umbrella of clubs like NSS, Gramothan Club and will continue to make efforts for the betterment and upliftment of the society. Dr. Brij Raj Shrama, Head, Dept. of Physics and Dr. Anurag Sharma, Associate Professor, Dept. of Chemistry received the award on behalf of SKIT.



GLIMPSE OF CEREMONY

PRAVAH- ANNUAL CULTURAL FEST OF SKIT ORGANIZED

The Annual Techno Cultural fest of SKIT was celebrated from 17 to 22 April, 2023 with the vision to be the grandest fest of India which effectuates the spirit of participation and celebration with the vigour of the young brigade of the national institutes. With the assistance of each branch of SKIT's family tree, more than 100 events were successfully organized under the umbrella of PRAVAH-2023. PRAVAH strives to provide a platform for students all across the nation, to showcase their talents in cultural, technical, non-technical, sports, and social areas where the journey of learning and growing together takes place.

PRAVAH started off with a grand inaugural of AAVEG 2023, the annual sports fest of SKIT on 17 April, 2023 which lasted for 3 days. It included championships of 12 different sports such as, Volleyball, Basketball, Badminton and many more. PRAVAH-2023 witnessed its opening on 18 April, 2023 with a lot of pomp and show.



The entry of fest in the college after 3 long years was enough to make everyone excited and overwhelmed. PravaH 2023 delivered what every single person of the college dreamed about. A series of fun packed events were surely the true highlight of the fest. Also, the students got their certificates of academic excellence on the last day of the fest which was also celebrated as ANNUAL DAY of the college. With a support of over 200 faculty members, 200 student coordinators and 400 volunteers, PRAVAH proved to be the most spell-bounding event of SKIT this year. Over 40 committees worked hand in hand to provide students from all across the nation, an experience for life. Many heartwarming events like Sur, Thirak, Kavyanjali, and Faculty Antakshari were held. For the first time, Punjabi singer Jassi Gil performed at SKIT at an event called celebrity night.

Many renowned names like Sh. Rajesh Kumar Sharma, Sh. Prabhat Mishra, Dr. CP Joshi and Sh. SK Singh were present to grace the 6 days long event. The event ended with a thousand of memories and a promise to cherish them next year again. Mr. Kailash Soni, Associate Professor, Dept. of CS, SKIT was the convenor of PravaH-2023.

WORKSHOP ON 'MINDING YOUR MIND: AN AWARENESS FOR EMOTIONAL WELL-BEING' ORGANIZED

A five-day workshop on emotional well-being was organized jointly by the Office of Student Affairs and the Universal Human Values & Ethics Committee from 1 to 5 February, 2023.

SKIT • SKIT • SKIT • SKIT • SKIT • SKIT • SKIT • SKIT •

GLIMPSE OF WORKSHOP

SKIT • SKIT • SKIT • SKIT • SKIT • SKIT • SKIT • SKIT • SKIT

GLIMPSE OF THE AWARD CEREMONY

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, convenor 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

EVENTS CONDUCTED BY FINE ARTS AND CRAFTS CLUB

The Fine Arts and Crafts Club organized a series of events in collaboration with the prestigious G-20 summit coordinated by faculty coordinators Dr Nidhi Sharma and Mr Gaurav Gupta.

EVENT 1: 'THE POWER OF A SKETCH'- SKETCHING CONTEST
The Sketching Contest was held on 7 December, 2022 at Soft Skills Cell, Civil block of SKIT. Artists harnessed the power of minimalistic strokes to evoke emotions and capture moments frozen in time. From delicate pencil sketches to bold ink compositions, the contestants demonstrated their skill in depicting the world around them. Vanshika Chawla (DS I Year) and Swati Lamba (DS I Year) were the winners.



EVENT2 : 'UNLEASHING THE IMAGINATION'- PAINTING CONTEST
The contest was held at Drawing Hall, CE block on 21 April, 2023. The event showcased a kaleidoscope of artistic styles, from abstract expressions to intricate portraits and breathtaking landscapes. The renowned artist Shri Sohan Jakhar and Mr.Shubham Khandelwal were the esteemed judges. Yash Thakur (ME III Year) and Pari Saraswat (DS II Year) were declared winners of the contest. The event was coordinated by the student coordiantor Yash Thakur (ME III year).

'SKIT MUSICAL FLAMES': AN IN HOUSE BATTLE OF BANDS ORGANIZED

SKIT Music Club organized an inhouse 'Battle of Bands' event on 5 April, 2023 in collaboration with Pravah Team at Gyan Mandir Auditorium. The auditions for the performance were

conducted through online mode. The event was a live jamming session by the different bands of college with modern equipment like guitars, drums, keyboard etc. The faculty coordinators were Dr. Manasvi Dixit, Ms. Sumita, Dr. Harpreet Singh Gill and Dr. Rishi Vyas.



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.



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.



'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.



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.

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.

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 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, Entrapreneur & 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 Shashtri 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.



“Not in doing what you like,
but in liking What you do is the
secret of happiness.”

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.



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.



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.



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.



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

FDP ON 'PYTHON 3.4.3' ORGANIZED

16 / SKIT TIMES / वार्षिक अंक - 54

BOOK CHAPTERS PUBLISHED

SKIT TIMES / वार्षिक अंक - 54 / 17

TITLE	: Plant Disease Detection Over Multiple Datasets Using AlexNet
AUTHOR/S	: Palika Jajoo, Mayank Kumar Jain, Sarla Jangir
PROCEEDING	: Proceeding of International Conference

on Information Management & Machine Intelligence. Association for Computing Machinery, New York, NY, USA

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.

BOOKS PUBLISHED

TITLE : The Impact of Thrust Technologies on Image Processing (Series: Technology in a Globalizing World)

EDITOR/S : Digvijay Pandey, Rohit Anand, Nidhi Sindhvani, Binay Kumar Pandey, Reecha Sharma, Pankaj Dadheech

PUBLISHER : Nova Science Publishers, New York, United States, 2023

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 Sindhvani, 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

FDPs ATTENDED

TITLE : Developing Potential-Emerging Technologies of Computer Science

DATE : 25 to 29 April, 2023

ATTENDED BY : Pankaj Dadheech

ORGANIZED BY : Sri Balaji College of Engineering and Technology, Jaipur.

TITLE : Raspberry Pi and its Interfacing

DATE : 27 February to 3 March, 2023

ATTENDED BY : Pankaj Dadheech, Nikhar Bhatnagar, Naveen Jain, Sanju Choudhary, Vipin Jain

ORGANIZED BY : Department of EE, SKIT in association with NITTTR, Chandigarh

TITLE : Machine Learning Application on Health Care

DATE : 16 to 20 January, 2023

ATTENDED BY : Sunil Dhankhar

ORGANIZED BY : SBCET, Jaipur

TITLE : Smart Grid Enabling Technologies for Sustainable Future (SGETSF-2023)

DATE : 13 to 17 March, 2023

ATTENDED BY : Sunil Dhankhar

ORGANIZED BY : SKIT, Jaipur

TITLE : Machine Learning: Concepts and Applications

DATE : 14 to 20 March, 2023

ATTENDED BY : Sunita Gupta, Vipin Jain, Sanju Choudhary

ORGANIZED BY : Kathua Campus, University of jammu

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

TITLE : Cyber Security Training for Educators

DATE : 26 to 30 September, 2022 & 6 to8 October, 2022

ATTENDED BY : Abha Jain, Shalini Pathak, Loveleen Kumar, Sumit Kumar

ORGANIZED BY : ICT Academy – Microsoft Philanthropy

TITLE : Python Programming

DATE : 13 to17 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 12Aug, 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 Engineeering 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 : Recent Trends of Machine Learning Applications in Grid Integrated Electric Vehicles (RTMLGEV-2023)
DATE : 31 January to 4 February, 2023
ATTENDED BY : Nikhar Bhatnagar, Naveen Jain, Sunita Gupta, Shalini Singhal
ORGANIZED BY : SKIT, Jaipur

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 : 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)

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.

SESSION ON : Sustainable Information and Optimization at International Conference on Sustainable Computing and Management (SUSCOM 2022)
CHAired 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)
CHAired BY : Pankaj Dadheech
DATE & VENUE : 17 to19 June, 2022 at Rajkiya Engineering College, Sonbhadra and Soft Computing Research Society

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

NAME : Tissue usingArtificial Intelligence
PATENT FILED DATE : Pankaj Dadheech
202221069895; 4 December, 2022
PATENT PUBLISHED DATE : 30 December, 2022

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

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

EXPERT TALK DELIVERED

TITLE : Recent Advancements in AI
DATE & VENUE : 30 March, 2023. At International Conference on Advanced Mathematics and Artificial Intelligence Organized by Poornima University, Jaipur.
DELIVERED BY : Pankaj Dadheech

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

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

NPTEL / mooKIT / IITBX / SWAYAM COURSE/S COMPLETED

COURSE/ TOPIC : Introduction to Automata, Languages and Computation
COMPLETED BY : Ashish Pant
DURATION & CATEGORY : January to April, 2023 (12-week). Awarded Topper+Gold Certificate

COURSE/ TOPIC : Machine Learning for soil and crop management
COMPLETED BY : Priyanka Sharma
DURATION & CATEGORY : January to April, 2023 (12-week). Awarded Elite+Silver Certificate

COURSE/ TOPIC : Cloud Computing and Distributed Systems
COMPLETED BY : Shirish Nagar
DURATION & CATEGORY : January to March, 2023 (8-week). Awarded Elite Certificate

COURSE/ TOPIC : Computer Networks and Internet Protocol
COMPLETED BY : Sumit Kumar
DURATION & CATEGORY : January to April, 2023 (12- week). Topper

COURSE/ TOPIC : Introduction to Embedded System Design
COMPLETED BY : Yogendra Gupta
DURATION & CATEGORY : January to April, 2023 (12-week). Awarded Elite Certificate

COURSE/ TOPIC : Computer Networks and Internet Protocol
COMPLETED BY : Mahender Kumar Beniwal
DURATION & CATEGORY : January to April, 2023 (12-week). Awarded Elite Certificate

COURSE/ TOPIC : Cloud Computing
COMPLETED BY : Pawan Kumar Patidar

DURATION & CATEGORY	: January to March, 2023 (8-week). Awarded Elite +Silver Certificate
COURSE/ TOPIC	: Computer Networks and Internet Protocol
COMPLETED BY	: Manish Bhardwaj
DURATION & CATEGORY	: January to April, 2023 (12-week). Awarded Elite Certificate
COURSE/ TOPIC	: Cloud Computing
COMPLETED BY	: Aakriti Sharma
DURATION & CATEGORY	: to April, 2023 (12- week). Awarded Elite Certificate
COURSE/ TOPIC	: Computer Networks and Internet Protocol
COMPLETED BY	: Neha Mathur
DURATION & CATEGORY	: January to April, 2023 (12-week). Successfully completed
COURSE/ TOPIC	: Blockchain andits Applications
COMPLETED BY	: Vikram Khandelwal
DURATION & CATEGORY	: January to April, 2023 (12 week). Awarded Elite Certificate
COURSE/ TOPIC	: Computer Networks and Internet Protocol
COMPLETED BY	: Nikhar Bhatnagar
DURATION & CATEGORY	: January to April, 2023 (12 week). Awarded Elite Certificate
COURSE/ TOPIC	: Introduction to Programming in C
COMPLETED BY	: Naveen Jain
DURATION & CATEGORY	: January to April, 2023 (8 week). Awarded Elite + Silver Certificate
COURSE/ TOPIC	: Introduction to Internet of things
COMPLETED BY	: Richa Rawal, Dr, S.R Dogiwal
DURATION & CATEGORY	: January to April, 2023 (12-week). Awarded Elite Certificate
COURSE/ TOPIC	: Introduction to Database Systems
COMPLETED BY	: Anjali Pandey
DURATION & CATEGORY	: January to April, 2023 (12-week). Awarded Elite Certificat
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	: OperatingSystem Fundamentals
COMPLETED BY	: Vipin Jain
DURATION & CATEGORY	: July to October, 2022 (12-week course). Awarded Elite Certificate.

Ph.D. AWARDED

THESIS TITLE	: An Efficient Approach for Automatic Text Summarization of Hindi Text
Ph.D. AWARDED TO	: Sunil Dhankhar
SUPERVISED BY	: Dr. Mukesh Kumar Gupta
INSTITUTE	: RTU, Kota
YEAR	: 2023

COURSES MENTORED

MENTOR/S	: COURSE/S
Anjali Pandey	: Database Management System
Nikhar Bhatnagar	: Computer Networks and Internet Protocol
Naveen Jain	: Introduction to Programming in C

FACULTY ACHIEVEMENT

- Dr. Nilam Choudhary has been appointed as a JointSecretary 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.
- Ms Priyanka Sharma and Dr. Pankaj Dadheech won the best paper award for their paper titled ‘Prediction of Crop Yield for Cultivation Relying on Soil and Environmental Traits using Numerous Feature Selection Methodologies’ presented

and published in the proceeding of the international conference on ‘Emerging Technologies in Computer Engineering: Industrial IoT and Cyber Physical Systems’ (ICETCE 2023) organized at SKIT, Jaipur from 3 to 4 February, 2023

GUEST EDITORS IN SPECIAL ISSUES OF JOURNALS

SPECIAL ISSUE	: AI-Enabled Internet of Everything (IoE) in NextGeneration 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



DEPARTMENT OF MECHANICAL ENGINEERING

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

An expert talk by Mr. Jitendra Tiwari (Education Expert) on 'Strategy to Crack GATE & Other Competitive Exams' was organized on 1 March, 2023. Mr Tiwari explained the importance of GATE Exam and shared his thoughts on various other aspects such as importance of self-made notes, various career opportunities, advantages of the growing demand of core branches in the government sector, immense opportunities in the PSU sector for Mechanical Engineering students and strategy to face different stages of recruitment (written test/GD/interview).

Vote of thanks was given by Dr. Chandan Kumar. About 100 participants (81 students and faculty) attended the event



GLIMPSE OF EXPERT TALK

WORKSHOP ON 'HEATING VENTILATION & AIR CONDITIONING' (HVAC) ORGANIZED

A three-day student workshop on 'Heating Ventilation & Air Conditioning' was organized from 16 to 18 March, 2023 . There were 5 sessions conducted on various themes of HVAC and efficient building design by experts from industries and other reputed consultants of India. The concepts of green building engineering, methods to decrease cooling loads in buildings, terms related to energy efficiency and carbon foot prints in connection to HVAC were taught in detail to the students. The workshop ended with a talk on career opportunity as consultant engineer in the field of HVAC and ECBC. About 100 students participated from different disciplines of SKIT college. Prof. Amit Kumar Bansal was the coordinator of the workshop.

EXPERT TALK ON 'E-VEHICLES' ORGANIZED

An expert talk on the topic 'E-Vehicles' by Mr. Kartik Muhal, CEO & Founder-UVIK Automobiles Pvt. Ltd. was organized by SKIT Incubation Cell and the Department of Mechanical Engineering on 20 March, 2023. Mr Kartik explained the importance and scope of research in the field of E-Vehicles and also discussed about the opportunities to secure career in this sector. The vote of thanks was given by Prof. Dheeraj Joshi, Head, Department of Mechanical Engineering. About 105 participants attended the talk.



GLIMPSE OF THE TALK

WORKSHOP ON 'DATA ANALYTICS' (SWDA) ORGANIZED

A five-day student centric workshop on 'Data Analytics' was organized from 4 to 8 April, 2023. The program was inaugurated by the Chief Guest Prof. G. S. Dangayach,

Department of ME, MNIT, Jaipur; Prof S. L. Surana, Director, Academics, SKIT and Prof Ashish Nayyar, Department of ME, SKIT. Prof. G. S. Dangayach explained the various domains of Data Analytics and its usefulness in Industry 4.0. IOT, Robotics, Manufacturing industry and Machine Learning. Prof S. L. Surana explained the applications of Data analytics in engineering, marketing, finance domain and its role in career advancement.

Hands-on practice sessions on basics of data analytics and hypothesis testing in MS-Excel were conducted by Dr. Gunjan Soni, Department of Mechanical Engineering, MNIT, Jaipur. Prof. Brijesh Awasthi, well known expert of Data Analytics explained the use of R-studio software in inferential statistics, Z test, paired t-test and various useful techniques of data analytics. Dr. Deepak Kumar explained the importance of Correlation & Regression analysis and ANOVA with hands- on practice in MS-Excel.

The vote of thanks was given by Prof. Dheeraj Joshi and the workshop was coordinated by Dr. Achin Srivastav.

FDP ON 'MODELLING & SIMULATION OF RENEWABLE ENERGY SYSTEMS' ORGANIZED

A one-week international Faculty Development Programme on 'Modelling and Simulation of Renewable Energy Systems-MASRES 2023' was organized from April 25 to 29, 2023 with an aim to apprise the participants of the advanced modelling and simulation software capable of offering an accurate and efficient model of renewable energy systems. Renowned experts Dr. M V Reddy, Senior Researcher, New Graphite World, Montreal, Hydro-Quebec, Canada; Dr. Alastair McDowell, Director, Energy Analysis and Engineering, Australia; Mr. Tushar Sharma, Vela Solaris AG, Switzerland; Dr. S. N. Patel, IIT, Indore; Dr. B. Tripathi, RTU, Kota; Prof. Dilip Sharma, Malaviya National Institute of Technology, Jaipur; and Dr. Sudhakar Kumarasamy, Universiti Malaysia Pahang, Malaysia talked on different aspects of modelling and simulation of renewable energy systems. There were over 400 registrations from all corners of the world. The FDP was coordinated by Dr. Chandan Kumar, Mr. Dinesh Kumar Sharma, and Mr. Ankit Agarwal.

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.



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.



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.



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.



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.

BOOKS PUBLISHED

BOOK	:	Butanol as a Biofuel (LAP Lambert Academic Publishing)
AUTHOR/S	:	Naveen Kumar Sain, Ashish Nayyar, Chandan Kumar
PUBLISHER	:	LAP Lambert Academic Publishing
BOOK	:	CFD Investigation of Shell and Tube Heat Exchanger
AUTHOR/S	:	Ashish Nayyar, Arun Beniwal
PUBLISHER	:	LAP Lambert Academic Publishing
BOOK	:	Green Hybrid Polymer Composite
AUTHOR/S	:	Raj Kumar
PUBLISHER	:	LAP Lambert Academic Publishing
BOOK	:	Study of Refrigerant Flow System
AUTHOR/S	:	Ankit Agarwal, Chandan Kumar, AmitJhalani
PUBLISHER	:	LAP Lambert Academic Publishing

BOOK CHAPTERS PUBLISHED

BOOK	:	Renewable Fuels for Sustainable Mobility
AUTHOR/S	:	Chandan Kumar, Praveen Saraswat
BOOK CHAPTER	:	A Bibliometric Review of Alcohol -Diesel Blend in CI Engines
PUBLISHER	:	Springer
BOOK	:	Emerging Trends in Energy Conversion and ThermoFluid 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

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE	:	A Postural Risk Assessment of Manual Dairy Farm Workers using REBA Technique
AUTHOR/S	:	Manoj Kumar Sain
PROCEEDING	:	Lecture Notes in Mechanical Engineering:

	:	Advances in Modelling and Optimization of Manufacturing and Industrial Systems: Select Proceedings of CIMS 2022
TITLE	:	Advantages and Applications of Natural Fiber Reinforced Hybrid Polymer Composites in Automobiles: A Literature Review
AUTHOR/S	:	Manoj Kumar Sain, Praveen Saraswat
PROCEEDING	:	Lecture Notes in Mechanical Engineering: Advances in Modelling an Optimization of Manufacturing and Industrial Systems: Select Proceedings of CIMS 2022
TITLE	:	Design and Development of a Touchless Hand Sanitizer Dispenser Machine
AUTHOR/S	:	Praveen Saraswat
PROCEEDING	:	Proceeding of international conference on Advancements in Smart Electronics, Materials and Communication Technologies (ICASEMCT-2023)
TITLE	:	A Review of Biomass as a Sustainable Fuel
AUTHOR/S	:	Naveen Kumar Sain, Chandan Kumar, Ashish Nayyar
PROCEEDING	:	IEI Proceeding, Insitution of Engineers and MNIT, Jaipur.
TITLE	:	Study of Additives-Diesel Fuel Blend
AUTHOR/S	:	Chandan Kumar, Achin Srivastav
PROCEEDING	:	IEI Proceeding, Insitution of Engineers and MNIT, Jaipur.
TITLE	:	Parametric Studies of Dry Abrasion Wear Behavior of Stone Industrial Waste Added (natural/synthetic) Fiber Reinforced Polymer Composites
AUTHOR/S	:	Vikash Gautam, Deepak Kumar
PROCEEDING	:	CPIE-2023, NIT, Jalandhar
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 (ICARIMA2022)
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	: Modelling and Simulation of Renewable Energy Systems (MASRES - 2023)
DATE	: 25 to 29 April, 2023.
ATTENDED BY	: Manu Augustine, Dinesh Kumar Sharma, Chandra Mohan Kumar, Sandeep Kumar Bhaskar, Sumita Hemrom, Sanjay Bairwa, Sunil Kumar, Naveen Kumar Sain
ORGANIZED BY	: Department of Mechanical Engineering, SKIT, Jaipur
TITLE	: Smart Grid Enabling Technologies for Sustainable Future (SGETSF2023)
DATE	: 13 to 17 March, 2023
ATTENDED BY	: Deepak Kumar, Dharmendra Hariyani, Monika Khurana, Sandeep Kumar Bhaskar, Sumita Hemrom, Sanjay Choudhary, Saurabh Gupta, Sanjay Bairwa, Sunil Kumar, Namita Soni, Yogesh Kumar Sharma, Manoj Kumar
ORGANIZED BY	: Department of Mechanical Engineering, SKIT, Jaipur
TITLE	: Machine learning Concepts and Applications.
DATE	: 14 to 20 March, 2023
ATTENDED BY	: Deepak Kumar,
ORGANIZED BY	: Department of Mechanical Engineering, University of Jammu.
TITLE	: Future Developments in Civil Engineering.
DATE	: 6 to 10 February, 2023
ATTENDED BY	: Vinay Singh Marwal, Sanjay Bairwa
ORGANIZED BY	: Anand International College of Engineering, Jaipur.
TITLE	: Industry 4.0 and Smart Manufacturing
DATE	: 27 Feb to 3 March, 2023
ATTENDED BY	: Achin Srivastav, Monika Khurana, Sandeep Kumar Bhaskar, Sumita Hemrom, Sanjay Choudhary, Sanjay Bairwa, Namita Soni, Yogesh Kumar Sharma
ORGANIZED BY	: Anand International College of Engineering, Jaipur
TITLE	: Machine Learning: Concepts and Applications
DATE	: 14 to 20 March, 2023
ATTENDED BY	: Achin Srivastav
ORGANIZED BY	: Department of Computer Science and IT, Kathua Campus, University of Jammu.

TITLE	: Recent Trends of Machine Learning Application in Grid Integrated Electric System
DATE	: 31 Jan to 4 February, 2023
ATTENDED BY	: Nitin Goyal, Chandan Kumar, Monu Gupta, Sanjay Choudhary, Saurabh Gupta, Trivendra Kumar Sharma, Manoj Kumar
ORGANIZED BY	: Department of EE, SKIT, Jaipur.
TITLE	: Smart Use of Renewable Energy Resources for Sustainable Future
DATE	: 21 to 25 February, 2023
ATTENDED BY	: Trivendra Kumar Sharma
ORGANIZED BY	: Department of ME, SKIT, Jaipur.
TITLE	: Innovations in Engineering Design and Management
DATE	: 20 to 25 February, 2023
ATTENDED BY	: Vikash Gautam
ORGANIZED BY	: Alliance University, Karnataka.
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, 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	: 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
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 : NITTTTR, 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.

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

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 : 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 : 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

SEMINARS ATTENDED

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.

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

NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : Production and Operation Management

COMPLETED BY : Dheeraj Joshi

DURATION & CATEGORY : January to April, 2023 (12 -week). Awarded Elite+Gold (Topper in1%)

COURSE/ TOPIC : Air Pollution and Control

COMPLETED BY : Chandra Mohan Kumar

DURATION & CATEGORY : January to April, 2023 (12 -week). Awarded Elite+Silver (Topper in5%)

COURSE/ TOPIC : Operations Management

COMPLETED BY : Dharmendra Hariyani

DURATION & CATEGORY : January to April, 2023 (12 -week). Awarded Elite+Gold (Topper in 1%)

COURSE/ TOPIC : IC Engines and Gas Turbines

COMPLETED BY : Prem Singh

DURATION & CATEGORY : January to April, 2023 (12 -week). Awarded Elite+Silver (Topper in 5%)

COURSE/ TOPIC : Environmental Impact Assessment

COMPLETED BY : Raj Kumar

DURATION & CATEGORY : January to April, 2023 (12 -week). Awarded Elite+Silver (Topper in 5%)

COURSE/ TOPIC : Computer Integrated Manufacturing

COMPLETED BY : Sunil Kumar

DURATION & CATEGORY : January to April, 2023 (12 -week). Awarded Elite+Gold (Topper in 5%)

COURSE/ TOPIC : Introduction to Abrasive Machining and Finishing Processes

COMPLETED BY : Vinay Singh Marwal

DURATION & CATEGORY : January to March, 2023 (8 -week). Awarded Elite+Gold (Topper in 1%)

COURSE/ TOPIC : Manufacturing Guidelines for Product Design

COMPLETED BY : Vinay Singh Marwal

DURATION & CATEGORY : January to March, 2023 (8 -week). Awarded Elite+Gold (Topper in 5%)

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

PATENTS PUBLISHED

TITLE : Automotic Robotic Sanitizer

NAME : Achin Srivastav

PATENT FILED DATE : Application No. 202311004379 A; 23 January, 2023

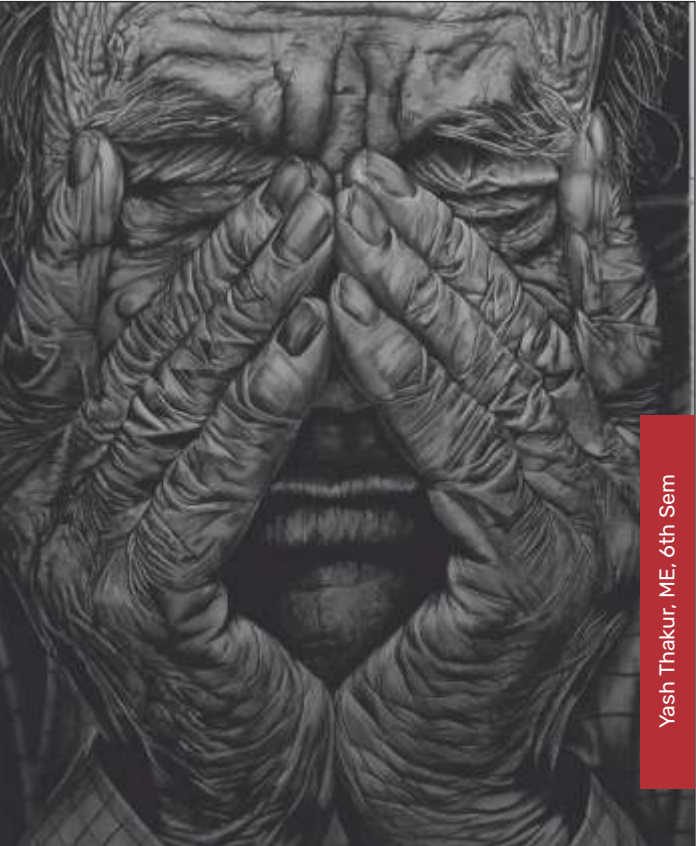
PATENT PUBLISHED DATE : 3 February, 2023

TITLE : Solar Distillation System

NAME : Amit Jhalani, Raj Kumar

PATENT FILED DATE : Application No. 365451 001; 5 June, 2022

PATENT PUBLISHED DATE : 24 March, 2023



DEPARTMENT OF ELECTRONICS & COMMUNICATION

SKIT HOSTED SECOND REGIONAL CONCLAVE OF STUDENTS' CHAPTER ON 'FUTURISTIC OPPORTUNITIES IN DIGITAL TRANSFORMATION'

SKIT hosted second Regional Conclave of Students' Chapter on 'Futuristic Opportunities in Digital Transformation' organized by the Institution of Engineers (India) in association with Rajasthan State Centre from 14 to 15 March, 2023. The inaugural ceremony was graced by the presence of the Chief Guest Prof. Rahul Banerjee, Director, LNMIT Jaipur; Guest of Honour Er. B. Brahma Reddy, FIE Chairman, AISC, IEI; Er. Sanjay Kumar, Chief General Manager, BSNL Rajasthan; Er. Gunjan Saxena, Chairman, IEI Rajasthan and Er. Sudesh Roop Rai, Hon. Secretary, IEI Rajasthan.

Expert speakers Er. Kishore Bhagtani, GM(CM), BSNL, Rajasthan; Dr. Satyasai Jagannath Nanda, MNIT, Jaipur and Prof. Manish Tiwari, Manipal University gave talks on different topics such as Evolution of Mobile Communications- Future Ahead, ChatGPT and Photonic Crystal Fibers respectively. A Paper presentation session was also conducted under the chair of Dr. Praveen Kr. Jain, Dy HOD, ECE and Dr. Vinay Kanungo of CS Department.

The second day of the conclave was marked by the organisation of intercollege events like Poster Competition and Model / Project competition based on digital transformation. The day ended with a panel discussion by dignitaries and presenting awards to the winner students under each category of project, model and poster competition.



GLIMPSE OF REGIONAL CONCLAVE

FDP ON 'RASPBERRY PI AND ITS INTERFACING' ORGANIZED

Faculty Development Programme on 'Raspberry Pi and its Interfacing' was organized in association with NITTTR, Chandigarh from 27 February to 3 March, 2023. The FDP was conducted in hybrid mode having both online and offline participants. The inaugural ceremony was graced by the presence of the Chief Guest Sh. Siddharth Pokharna, Sr. DDG, Department of Telecom, Rajasthan; Guest of Honor Dr. Peeyush Tiwari, Director, BIT Mesra, Jaipur Campus and Dr. Ritula Thakur, Associate Professor, NITTTR, Chandigarh.

On day-1, the session began with an introduction to Raspberry Pi by Dr. Ritula Thakur followed by a discussion on Python Programming for Raspberry Pi in the next session. The first and second sessions on day-2 started with installation of Node Red with Raspberry Pi by Mr. Ajay Godara, Founder & CEO, Enovate Skills, followed by a practice task in the third session by Dr. Ritula Thakur. On day-3, the first and second sessions started with some simulations performed on Node Red with Raspberry Pi by Mr. Ajay Godara, followed by a practice task in the third session by Dr. Ritula Thakur. On day-4, Mr. Snehanishu Shekhar from BIT Mesra, Jaipur Centre gave an expert talk on 'Raspberry Pi and Intelligent Instrumentation' followed by another expert talk on 'Raspberry Pi in IOT Applications' by Prof. Rajeev Mathur, Director, School of Engineering and Technology, JNU, Jaipur. In the third session, Dr. Amit Mahesh Joshi, MNIT, Jaipur enlightened the participants with his talk on 'IOT in Smart Healthcare'. The last day opened with a session by Dr. Payal Bansal, Associate Professor, Poornima College of Engineering, Jaipur on the topic 'Hardware Requirements for Module Interfacing using Raspberry Pi'. The FDP ended with a quiz for participants.



GLIMPSE OF FDP

INTERNATIONAL CONFERENCE ON 'ADVANCEMENTS IN SMART ELECTRONICS, MATERIALS AND COMMUNICATION TECHNOLOGIES' ORGANIZED

A two- day international conference (ICASEMCT-2023) was organized in association with CSIR-IMMT, InTEC-MAITRI, Bhubaneswar from 17 to 18 February, 2023. The conference was technically sponsored by IRIS-WORLD, JV Micronics and



GLIMPSE OF CONFERENCE

IETE, Jaipur Centre. ICASEMCT 2023 was inaugurated in the benign presence of the Chief Guest Dr. P.C. Panchariya, Director, CSIR-CEERI Pilani; Guest of Honor Prof. Mukesh Kumar, Professor, IIT Indore and Prof. Virendra Singh, IIT Bombay.

Dr. P.C. Panchariya briefed about the progress made in the field of semiconductor chips. He also enlightened the participants about the development of Smart Materials. The keynote lecture was given by Dr. Phichai Youplao, RMUTI, Thailand on 'Quantum Key Distribution'. Dr. Ravi Maddila, MNIT, Jaipur as the invited speaker talked on 'Opportunities in Optical Wireless Communications'. This was followed by paper presentation sessions. Dr. Amit Garg, Assistant Professor, IIIT Kota; Dr. Sunand Sinha, Asst. Prof., MNIT, Jaipur and Dr. Yogendra Gupta, SKIT, Jaipur were the session chairs. Prof. Mukesh Kumar, IIT, Indore and Prof. Virendra Singh, IIT, Bombay gave their expert talks on the importance of "Chip-scale Devices for Optical Communication & Interconnects" and "Issues in Designing Robust Smart System" respectively.

Day- 2 kicked off with a much awaited session of Dr. Sanju Tiwari, VCE, India. She emphasized on 'Semantic Modeling in IoT and eHealth Applications'. Followed by it, Dr. Jaiverdhan highlighted the importance of 'Circularly Polarized Antenna Designs- Recent Trends and Developments'. This was followed by paper presentation sessions. Dr. Tawfik Ismail, Nile University, Egypt threw light on 'Free-Space-Optical Quantum Key Distribution Systems'. 31 papers were presented in 4 different sessions and best presentation award was being awarded in each session. Journal of Polymer and Composite, Journal of Emergent Materials (Springer) and SKIT Research Journal graciously accepted to be the publication partners of ICASEMCT-2023.

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 Idwal 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.

ELECTRONICS & COMMUNICATION DEPARTMENT RECOGNIZED AS ‘CENTRE OF EXCELLENCE'

The Department of Electronics & Communication is recognized as 'Centre of Excellence' in the area of Antenna Microwave and RF Engineering by RTU, Kota from session 2022-23.

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. Kushmanda Saurab, IIT, Jammu. Dr. Kushmanda saurav took an expert session on the topic "Design of Circularly Polarized Antennaa for Microwave and Millimeter Wave Application". The event was coordinated by Ms. Kiran Rath, 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 most widely used advanced tools, strategies and techniques being 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 Idwal 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 introduce them with 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 provided by Dr. Monika mathur. Dr. Swati Arora told the students about ECA and co-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 stressed 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 Rath
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 Cs2TiBr6 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 basedon Square Ring Resonator
AUTHOR/S : Yazusha Sharma, Rukhsar Zafar
PROCEEDING: Materials Today Proceedings, Elsevier, ISSN: 2214-7853, July 2022

PAPERS PRESENTED IN CONFERENCES

TITLE : Tin Oxide (SnO2) based Thin Film Transistor: A Review
AUTHOR/S : Abhinandan Jain, Lalit Lata, Praveen Kumar Jain
CONFERENCE : International Conference on Advancements in Smart Electronics, Materials and Communication Technologies (ICASEMCT 2023)

TITLE : Cloud based Smart Energy Meter
AUTHOR/S : Pooja Choudhary, Manju Choudhary
CONFERENCE : International Conference on Advancements in Smart Electronics, Materials and Communication Technologies (ICASEMCT 2023)

TITLE	: VLSI Implementation of Swarn Unit for PSO algorithm	Materials and Communication Technologies (ICASEMCT 2023)
AUTHOR/S	: Vikas Pathak, Abhinandan Jain, Kiran Rathi, Rahul Pandey	
CONFERENCE	: International Conference on Advancements in Smart Electronics, Materials and Communication Technologies (ICASEMCT 2023)	
TITLE	: A Study of Deutsch Jozsa Algorithm on Computational Basis	
AUTHOR/S	: Priyanka Sharma, Rukhsar Zafar	
CONFERENCE	: International Conference on Advancements in Smart Electronics, Materials and Communication Technologies (ICASEMCT 2023)	
TITLE	: Nano-plasmonic Refractive Index Sensor based on Metallic Slit Loaded Stub Resonator	
AUTHOR/S	: Rukhsar Zafar, Yazusha Sharma	
CONFERENCE	: International Conference on Advances in Materials Science, Communication and Microelectronics	
TITLE	: Design and Development of a Touchless Hand Sanitizer Dispenser Machine	
AUTHOR/S	: Dinesh Kumar	
CONFERENCE	: International Conference on Advancements in Smart Electronics, Materials and Communication Technologies (ICASEMCT 2023)	
TITLE	: Towards Assessment and Attainment of Engineering Graduate Attributes in Outcome based Education (OBE)	
AUTHOR/S	: Praveen Kumar Jain	
CONFERENCE	: Future of Educational Innovation Workshop Series Data in Action	
TITLE	: PRAM Technology: A promising Non Volatile Memory Solution	
AUTHOR/S	: Lalit Kumar Lata, Praveen Kumar Jain	
CONFERENCE	: International Conference on Advancements in Smart Electronics, Materials and Communication Technologies (ICASEMCT 2023)	
TITLE	: Impact of Mole Concentration and Well Width on Band Gap and Optical Response of GaInP/AlGaInP Heterostrucutre	
AUTHOR/S	: Monika Mathur, J.P.Vijay	
CONFERENCE	: International Conference on Advancements in Smart Electronics,	
TITLE	: Hetro-Strucutre Thin Film Solar Cell-An Overview	
AUTHOR/S	: Swati Arora	
CONFERENCE	: International Conference on Advancements in Smart Electronics, Materials and Communication Technologies (ICASEMCT 2023)	
TITLE	: Performance Enhancement of Kesterite Cu ₂ ZnSn(S,Se) ₄ Thin Film Solar Cell	
AUTHOR/S	: Swati Arora, Satyendra Kumar	
CONFERENCE	: International Conference on Automation, Computing and Renewable Systems (ICACRS 2022) Tamil Nadu, India	
TITLE	: A Microstrip Patch Antenna with DGS in Ka Band for 5G Applications	
AUTHOR/S	: Suman Sharma, Mukesh Kumar Arora	
CONFERENCE	: International Conference on Advancements in Smart Electronics, Materials and Communication Technologies (ICASEMCT 2023)	
TITLE	: Composites of ZnOxMgO _{1-x} Thin Films	
AUTHOR/S	: Swati Arora, Ankita Sharma	
CONFERENCE	: International Conference on Information Management & Machine Intelligence (ICIMMI 2022)	
TITLE	: Design and Analysis of a Compact Size 4 element MIMO Antenna for Millimeter Wave 5G Communication Systems	
AUTHOR/S	: Suman Sharma, Mukesh Kumar Arora	
CONFERENCE	: International Conference on Advancements in Smart Electronics, Materials and Communication Technologies (ICASEMCT 2023)	
TITLE	: A Patch Antenna at 2.4 GHz Frequency for Bluetooth	
AUTHOR/S	: Suman Sharma, Mukesh Kumar Arora, Harshal Nigam,	
CONFERENCE	: International Conference on Recent Trends in Emerging Technologies (Materials & Communication Technologies)	
TITLE	: Hardware Implementation of Notch IIR Filter	
AUTHOR/S	: Vikas Pathak, Mamta Jain, Neeraj Jain, Sunil Lakhawat	

CONFERENCE	: International Conference on Advancements in Smart Electronics, Materials and Communication Technologies (ICASEMCT 2023)
TITLE	: Quantum Dots: A review
AUTHOR/S	: Kiran Rathi, Vikas Pathak
CONFERENCE	: International Conference on Advancements in Smart Electronics, Materials and Communication Technologies (ICASEMCT 2023)
TITLE	: Effects of Parasitic Elements in Microstrip Patch Antenna
AUTHOR/S	: Shubhi Jain
CONFERENCE	: International Conference on Advancements in Smart Electronics, Materials and Communication Technologies (ICASEMCT 2023)
TITLE	: Approximate Adder Circuits: A Comparative Analysis and Evaluation
AUTHOR/S	: Pooja Choudhary
CONFERENCE	: International Conference on Paradigms of Computing, Communication and Data Sciences
TITLE	: Photonic Crystal Sensor for the Detection of Red Blood Cells Clotting In Blood
AUTHOR/S	: Ankit Agrawal, Rahul Pandey, S.K. Bhatnagar
CONFERENCE	: International Conference on Innovations in High-Speed Communication and Signal Processing (IEEE-IHCSP)
TITLE	: Performance Enhancement of Kesterite Cu ₂ ZnSn(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	: Zn _{1-x} O _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	: Raspberry Pi and its Interfacing
DATE	: 27 February to 3 March, 2023
ATTENDED BY	: Shubhi Jain, Mamta Jain, Pallav Rawal, Gloria Joseph, Pooja Choudhary, Abhinandan Jain, Harshal Nigam,
ORGANIZED BY	: NITTTR
TITLE	: SGETSF
DATE	: 13 to 17 March, 2023
ATTENDED BY	: Shubhi Jain, J.P.Vijay, Mamta Jain
ORGANIZED BY	: SKIT, Jaipur
TITLE	: Recent Trends in Wireless Communication
DATE	: 24 to 28 April, 2023
ATTENDED BY	: Shubhi Jain
ORGANIZED BY	: NITTTR
TITLE	: Modelling and Simulation of Renewable Energy Systems
DATE	: 24 to 29 April, 2023
ATTENDED BY	: Shubhi Jain, Mamta Jain
ORGANIZED BY	: SKIT, Jaipur
TITLE	: Futuristic Opportunity in Digital Transformation
DATE	: 14 to 15 March, 2023
ATTENDED BY	: Shubhi Jain
ORGANIZED BY	: SKIT, Jaipur
TITLE	: Design of High-frequency Antennas for Real-time Antennas
DATE	: 14 to18 March, 2023
ATTENDED BY	: Harshal Nigam
ORGANIZED BY	: GMRIT
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 Idwal, 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

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 Advance 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 to29 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 Idawal, 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 Idawal, 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

WORKSHOPS ATTENDED

TITLE : RF and Microwave Components
DATE : 17 to 23 May, 2023
ATTENDED BY : Shubhi Jain
ORGANIZED BY : VIT-AP University

TITLE : RTMLGE
DATE : 31 January to 4 February, 2023
ATTENDED BY : Shubhi Jain , J.P.Vijay, Mamta Jain
ORGANIZED BY : SKIT, Jaipur

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

COURSE/ TOPIC : System Design Through Verilog
COMPLETED BY : Vikas Pathak
DURATION & CATEGORY : July to September, 2022 (8-week).
Awarded Elite + Silver Certificate

PATENTS FILED

TITLE : A Solar Security Camera System
NAME : Monika Mathur, Kiran Rathi, Rajni Idawal, 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)

SESSION CHAIRED

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

SESSION ON : Advanced Computing Techniques
CHAIRIED 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

Ph.D. AWARDED

THESIS TITLE : Design and Development of Reconfigurable Planar Antenna for Communication System

Ph.D. AWARDED TO : Pallav Rawal
SUPERVISED BY : Dr. Sanyog Rawat
INSTITUTE : Manipal University, Jaipur
YEAR : 2023

THESIS TITLE : Investigation of Metal Oxide Thin Film based Heterojunctions for Electronic and Sensing Application

Ph.D. AWARDED TO : Neeraj Jain
SUPERVISED BY : Dr. Renu Kumawat, Dr. Shashikant Sharma
INSTITUTE : Manipal University, Jaipur
YEAR : 2023

THESIS TITLE : Structural and Optical Gain Analysis of Nanoscale Heterostructure using Compound Semiconductors

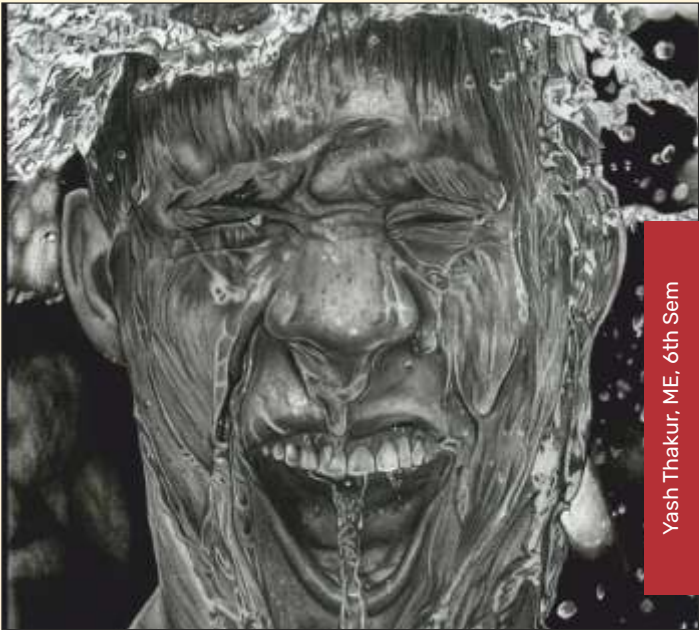
Ph.D. AWARDED TO : Jai Prakash Vijay
GUIDED BY : Amit Rathi & Kulwant Singh
INSTITUTE : Manipal University, Jaipur.
YEAR : 2022

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

FACULTY ACHIEVEMENT

- Ms. Priyanka Sharma led team is selected from level I to team level II in India's biggest robotics competition: ROBOFEST Gujrat 3.0
- Mr. Ankit Agrawal has been awarded NPTEL Discipline Star Jan-April, 2023. He is also selected as a translator for the AICTE's Hindi Translation Project.
- Dr. Monika Mathur has been given 'Eminent Engineer' award on World Telecommunication Day on 17 May, 2023 by Institution of Engineers Society, Rajasthan Section
- Ms. Swati Arora, Ms 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'.



Yash Thakur, ME, 6th Sem



Yash Thakur, ME, 6th Sem

DEPARTMENT OF ELECTRICAL ENGINEERING

SHORT-TERM COURSE ON 'ENERGY EFFICIENT AND DECARBONISATION TECHNOLOGIES' ORGANIZED

A short-term online course on 'Energy Efficient and Decarbonisation Technologies' was organized in collaboration with NITTTR Chandigarh from 5 to 9 June, 2023 with an aim to provide the participants a comprehensive understanding of energy efficiency and decarbonization.

Expert instructors from NITTTR Chandigarh shared insights on energy-efficient technologies in various sectors such as advanced building systems, smart grids, industrial processes and also talked about various courses on renewable energy sources like solar, wind, hydro, and geothermal technologies, Policy and regulatory frameworks supporting energy efficiency and decarbonization initiatives were also discussed emphasizing the importance of government interventions and international collaborations. The online mode facilitated interactive sessions, virtual group discussions, and access to resources for an engaging learning experience.



GLIMPSE OF SHORT TERM COURSE

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

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. Sarfarz Nawaz, Head, Electrical Engineering Department presented a vote of thanks.

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



GLIMPSE OF THE SEMINAR

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.



GLIMPSE OF THE INDUSTRIAL VISIT

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 department work culture. 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.



GLIMPSE OF THE INDUCTION PROGRAMME

INDUSTRIAL VISIT FOR III SEMSTER 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 the 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' at J.C.Bose Seminar Hall in virtual mode. 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 the 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 PARVEEN 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.

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	: Review and Outlook on Energy Transition
AUTHOR/S	: Suman Sharma, Jitendra Singh, Baibhav Bishal, Jinendra Rahul
PROCEEDING	: Proceeding of International Conference on Electrical Energy Systems (ICEES), 23 to 25 March, 2023

TITLE	: Multi-Objective Optimal Bidding Approach for both Small & Large Customers in Competitive power Market
AUTHOR/S	: Manisha Sani, Ajay Bhardwaj, Sarfaraz Nawaz
PROCEEDING	: Proceeding of International Conference for Convergence in Technology (I2CT), 7 to 9 April, 2023

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

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 (ICICCSP-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

PAPERS PRESENTED IN CONFERENCES

TITLE : Statistical Analysis of Integration of Renewable DGs in IEEE-9 Bus System using ETAP Simulation

AUTHOR/S : Pooja Jain, Ankush Tandon, Divam Pareek, Asheesh Verma

CONFERENCE : IEEE Devices for Integrated Circuit (DevIC), 7 to 8 April,2023

TITLE : Statistical Impact Analysis of Integration of different types of WTG on Radial Distribution System

AUTHOR/S : Ankush Tandon, Pooja Jain, Abhinav Goyal, Aditya Sharma, Anoop Gupta, Anmay Kapoor

CONFERENCE : International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT), 5 to7 April,2023

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 : Smart Grid Enabling Technologies for Sustainable Future

DATE : 13 to 17 March, 2023

ATTENDED BY : Abhishek Gupta, Prateek Kumar Singhal, Virendra Swaroop Sangtani

ORGANIZED BY : Department of EE, SKIT, Jaipur

TITLE : Modelling and Simulation of Renewable Energy Systems (MASRES - 2023)

DATE : 25 to 29 April, 2023

ATTENDED BY : Abhishek Gupta, Prateek Kumar Singhal

ORGANIZED BY : Department of ME, SKIT, Jaipur

TITLE : Universal Human Values & Ethics in Higher Education

DATE : 14 to 18 March, 2023

ATTENDED BY : Prateek Singhal

ORGANIZED BY : UHV&EC, SKIT Jaipur

TITLE : Recent Trends of Machine Learning Applications in Grid Integrated Electric Vehicles

DATE : 31 January to 4 February, 2023

ATTENDED BY : Virendra Swaroop Sangtani

ORGANIZED BY : Department of E.E, SKIT M & G, Jaipur

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)

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 : Recent Trends of Machine Learning Applications in Grid Integrated Electric Vehicles

DATE : 31 January to 4 February, 2023

ATTENDED BY : Prateek Kumar Singhal

ORGANIZED BY : Department of EE, SKIT, Jaipur

TITLE : Embedded Design with ATMEGA AVR Micro Controllers

DATE : 13to18 April, 2023

ATTENDED BY : Prateek Kumar Singhal

ORGANIZED BY : Department of EE, GPREC

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

TITLE : Modeling, Simulation and Optimization Tools for Electrical Engineering

DATE : 8 to 10 August, 2022

ATTENDEDBY : Abhishek Gupta, Vivek Sharma, Virendra Swaroop Sangtani

ORGANIZED BY : Department of EE, SKIT, Jaipur

TITLE : NeW IPR 2022 e- workshop

DATE : 13 to18 June, 2022

ATTENDED BY : Ankit Vijayvargiya

ORGANIZED BY : CSIR-IMMT,Bhubaneswar

STTP ATTENDED

TITLE : Energy Efficient and Decarbonisation Technologies

DATE : 5 to 9June, 2023

ATTENDED BY : Prateek Kumar Singhal

ORGANIZED BY : Department of EE, NITTTR, Chandigarh

NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : NBA Accreditation and Teaching-Learning in Engineering (NATE)

COMPLETED BY : Pooja Jain

DURATION & CATEGORY : January to April, 2023 (12-week). Awarded Elite Certificate &Silver Medal

COURSE/ TOPIC : NBA Accreditation and teaching and Learning in Engineering (NATE)

COMPLETED BY : Virendra Swaroop Sangtani

DURATION & CATEGORY : January to April, 2023 (12-week). Awarded Elite Certificate

COURSE/ TOPIC : Power System Engineering

COMPLETED BY : Virendra Swaroop Sangtani

DURATION & CATEGORY : January to April, 2023 (12 week). Awarded Elite Certificate

COURSE/ TOPIC : Power System Engineering

COMPLETED BY : Avadhesh Kumar Sharma

DURATION & CATEGORY : January to April, 2023 (12- week).

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

NITTT CERTIFICATE COURSES COMPLETED

COURSE : Module 1-8
COMPLETED BY : Deepak Saini
DURATION : January 2022 to February 2023.
Successfully Completed

COURSE : Module 1-8
COMPLETED BY : Vikas Mahala
DURATION : January 2022 to February 2023.
Successfully Completed

PATENTS PUBLISHED:

TITLE : A Secured Password based
Circuit Breaker System using
GSM Technology and a Method
there of
NAME : AnkushTandon, PoojaJain,
Sarfraz Nawaz
PATENT PUBLISHED DATE : Application No. 202311018334;
12 May, 2023

TITLE : A Smart System for
Controlling the Ignition
System and Location of a
Vehicle
NAME : Sarfraz Nawaz,
AnkushTandon, Pooja Jain
PATENT PUBLISHED DATE : Application No. 202311030887;
19 May, 2023

EXPERT TALK DELIVERED

TITLE : Integration of Renewable Energy
Systems: Issues and Challenges
DATE & VENUE : 13 to 17 March, 2023 at SKIT, Jaipur
DELIVERED BY : Virendra Swaroop Sangtani

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

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

M.TECH. SUPERVISED

DISSERTATION TOPIC : Utilisation of Renewable Energy
Resources to Enhance the Energy
of Electric Vehicles Station
NAME OF STUDENT : Ravi Sharma
GUIDED BY : Prateek Kumar Singhal

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 : Sarfraz Nawaz

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

WORKSHOP ON 'EFFECTIVE LEARNING THROUGH LABORATORY INVESTIGATION IN GEOTECHNICAL ENGINEERING' ORGANIZED

A five-day workshop for the Civil Engineering students of third
year was organized from 10 to 14 April,2023. During the
workshop, the students were given hands- on experience in
performing laboratory (Standard Proctor, Direct Shear, Triaxial
and Unconfined Compressive Strength tests) and field tests
(Standard Penetration Test) to estimate important engineering
properties of soil encountered in any construction project. In
addition, the participants were also trained to prepare the
geotechnical investigation report. The coordinators of the
event were Dr. Bharathi and Dr. Pooja Gupta.



EXPERT TALK ON 'USE OF RECLAIMED ASPHALT PAVEMENT (RAP) MATERIAL IN FLEXIBLE PAVEMENT' ORGANIZED

An expert talk on 'Reclaimed Asphalt Pavement (RAP) Material
in Flexible Pavement' by Dr. Maninder Singh, Assistant
Professor, Punjabi University, Patiala was organized on 3 May,
2023. The students got valuable insights about the benefits of
using RAP material in pavement construction and also its use
in the design and construction of flexible pavement. In the
present road construction scenario, the old bituminous
(dambar) pavement material is being reused up to 70% with a

general range of 30% in the construction of new bituminous
pavement. This practice is now adopted by National Highway
Authority of India (NHAI). The session was a great learning
experience for the students and provided them with an
opportunity to interact with an expert in the field. The
coordinator of the event was Dr. Ankit Sharma.



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.

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, Techmodec 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 widely used software tools used to design buildings and foundations. Dr. Bharathi M. and Dr. Sunita Tolani were the faculty coordinators of the event.

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	: Development and Applications of Special Concretes
DATE	: January to March, 2023 (8 -week).
ATTENDED BY	: Pooja Jain
ORGANIZED BY	: NPTEL
TITLE	: Universal Human values
DATE	: 14 to18 April, 2023
ATTENDED BY	: Bharathi M, Pooja Gupta, Abhishek Jain, Nandini Moondra, Rakesh Choudhary, Pawan Patidar, Gaurav Gupta
ORGANIZED BY	: SKIT, Jaipur
TITLE	: Recent Trends of Machine Learning Applications in Grid Integrated Electric Vehicles
DATE	: 31 January to 4 February, 2023
ATTENDED BY	: Ankur Mishra
ORGANIZED BY	: SKIT, Jaipur

TITLE	: Industry 4.0, as a Future
DATE	: 20 to 24 February, 2023
ATTENDED BY	: Ankur Mishra, Kishan Lal Jain
ORGANIZED BY	: Dr. D. Y. Patil Institute of Engineering, Management, and Research, Pune

TITLE	: Future Developments in Civil Engineering Electric Vehicles
DATE	: 6 to10 February, 2023
ATTENDED BY	: Ankur Mishra, Kishan Lal Jain, Jetender Babulal Jangid, Vikas Vyas, Pooja Gupta, Abhishek Jain.
ORGANIZED BY	: SKIT, Jaipur

TITLE	: Modelling and Simulation of Renewable Energy Systems (MASRES 2023)
DATE	: 25 to 29 April, 2023
ATTENDED BY	: D.K. Sharma, Kishan Lal Jain, Jetender Babulal Jangid, Vikas Vyas
ORGANIZED BY	: SKIT, Jaipur

TITLE	: Smart Grid Enabling Technologies for Sustainable Future
DATE	: 13 to 17 March, 2023
ATTENDED BY	: Kishan Lal Jain, Jetender Babulal Jangid, Gaurav Gupta
ORGANIZED BY	: SKIT M & G, Jaipur

TITLE	: Innovations in Water Treatment & Sustainable Infrastructure
DATE	: 29 May to 2 June, 2023
ATTENDED BY	: Vikas Vyas
ORGANIZED BY	: CEC, Jhanjheri, Mohali

TITLE	: Laboratory Practices in Soil Engineering
DATE	: 20 to 24 March, 2023
ATTENDED BY	: Jetender Babulal Jangid
ORGANIZED BY	: NITTTR, Chandigarh

TITLE	: Developing Life Skills among Students
DATE	: 24 to 28 April, 2023
ATTENDED BY	: Jetender Babulal Jangid
ORGANIZED BY	: NITTTR, Chandigarh

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
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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
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

WORKSHOPS ATTENDED

TITLE	: Geotechnical Earthquake Engineering
DATE	: 6 to 7 February, 2023
ATTENDED BY	: Bharathi M.
ORGANIZED BY	: IIT Bombay.
TITLE	: Structural Dyanmics and Earthquake Engineering
DATE	: 13 March,2023
ATTENDED BY	: Bharathi M.
ORGANIZED BY	: IIT Bombay.
TITLE	: Disaster Resilient Infrastructure Engineering

DATE	: 28 April,2023
ATTENDED BY	: Bharathi M.
ORGANIZED BY	: IIT Bombay.

NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC	: Concrete Technology
COMPLETED BY	: Kishan Lal Jain
DURATION & CATEGORY	: January to April, 2023 (12-week). Topper in 5%
COURSE/ TOPIC	: Development and Applications of Special Concretes
COMPLETED BY	: Pooja Jain
DURATION & CATEGORY	: January to March, 2023 (8-week). Topper in 5%
COURSE/ TOPIC	: Water and Waste Water Treatment
COMPLETED BY	: Vikas Vyas
DURATION & CATEGORY	: January to April, 2023 (12-week).
COURSE/ TOPIC	: Concrete Technology
COMPLETED BY	: Kishan Lal Jain
DURATION & CATEGORY	: January to April, 2023 (12-week). Topper in 5%
COURSE/ TOPIC	: Development and Applications of Special Concretes
COMPLETED BY	: Pooja Jain
DURATION & CATEGORY	: January to March, 2023 (8-week). Topper in 5%
COURSE/ TOPIC	: Water and Waste Water Treatment
COMPLETED BY	: Vikas Vyas
DURATION & CATEGORY	: January to April, 2023 (12-week).
COURSE/ TOPIC	: Geotechnical Engineering Laboratory
COMPLETED BY	: Prahlad Kumar
DURATION & CATEGORY	: July to August 2022 (4 -week). Successfully completed

Ph.D. AWARDED

THESIS TITLE	: Utilization of Micro Size Waste of Vitrified Porcelain Stoneware Tiles for Sustainable and Durable Concrete.
Ph.D. AWARDED TO	: Pooja Jain
SUPERVISED BY	: Dr. Rajesh Gupta & Dr. Sandeep Chaudhary (External Supervisor IIT Indore)
INSTITUTE	: Malviya National Institute of Technology (MNIT) Jaipur.
YEAR	: April, 2023

DEPARTMENT OF MANAGEMENT STUDIES

WORKSHOP ON 'IOT AND ROBOTICS FOR MANAGERS' ORGANIZED

A student centric national workshop on 'IOT and Robotics for Managers' was organized from 9 to 12 June, 2023 with an objective to introduce the students with concepts and techniques of IoT and importance of Robotics as a valuable tool for managers. Speakers Mr. Dinesh Kumar, Assistant Professor, ECE, SKIT; Ms. Kiran Rath, Associate Professor, ECE, SKIT; Mr. Ajay Dhanopia, Coordinator, Incubation Cell and Mr. Subhrojeet Gupta, Vice chairman, IIC gave talks on various topics such as IoT Protocol, Circuit Designing using PROTEUS Software, Micro controller and its Applications, Introduction about Incubation Cell, Role of Marketing for Innovative Projects etc. Students were also given hands-on practice experience on IOT and robotics software

Dr. Deepak Kumar, Dr. Achin Srivastav and Mr. Tarun Sharma were the coordinators of the workshop.



GLIMPSE OF WORKSHOP

INDUSTRIAL VISIT TO JAIPUR DAIRY ORGANIZED

The students of MBA were taken on an industrial visit to 'Jaipur Dairy', Jaipur on 23 February, 2023 with an objective to provide them a learning experience and to expose them to the working of a large-scale dairy plant. It helped them understand the importance of quality control, innovation, and marketing in the dairy industry.



GLIMPSE OF INDUSTRIAL VISIT

INDUSTRIAL VISIT TO HASTKALA, JAIPUR

An industrial visit to 'Hastkala, Jaipur was organized on 10 May, 2023 in order to provide the students practical knowledge and industry exposure. Regular industrial visits assist the students identify their potential area of work like finance, logistics, marketing, etc. It also help the students to know about the latest industry trends, rules and regulations



GLIMPSE OF WORKSHOP

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

A one-day national seminar on 'Analysis of Union Budget-2023' was organized on 11 February, 2023. Prof. S. L. Surana, Director (Academics) welcomed the guests and Dr. Ona Ladiwal, HOD, DMS briefed about the theme and the objectives of the seminar. Mr. Bharat Sharma, Founder and Director, Stocnerv was the Chief Guest of the seminar. In the keynote address, Mr. Bharat discussed about several points pertaining to budgetary reforms in India such as Taxation of deemed accrual of gift made to residents and not to ordinary residents, Provisions for taxation of start-up-amendment to section

80IAC and section 79, Payment to MSME – amendment to section 43B, impact etc. Mr. Manish Kukreja, Director, UPSkill Commerce Classes and CMA Akshay Sen were the other experts who talked on various topics such as increase in the per capita income, Direct Tax Provisions, changes proposed in the Income Tax Law, current year's economic growth etc.

This was followed by a panel discussion, wherein, the impact of budget on various sectors of the economy was discussed. Dr. Ajay Verma coordinated the event.

EXPERT TALK ON 'FINANCIAL EDUCATION FOR YOUNG CITIZENS' ORGANIZED

An expert talk on 'Financial Education for Young Citizens' was organized on 17 February, 2023 through an online platform. The speaker Dr. Sanjay Kumar Agarwal explained the students that financial education is a basic life skill that has a direct impact on personal well-being. Basics like money management, savings, investing and debt will lay a strong foundation for money habits if imparted from a young age. Dr. Ajay Verma was the coordinator of the event.

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.



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.

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.

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 called upon 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. Mr. T.S. Sharma said that the grooming of future managers starts from day one. Getting a job should not be the sole focus of the students, instead, they should look for the opportunities to create new ones. 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	: Dr. Ona Ladiwal
PATENT FILED DATE	: Application No. 202211053867 A; 20 September, 2022
PATENT PUBLISHED DATE	: 23 September, 2022



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.



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.

BOOKS PUBLISHED

TITLE : Communicative English for B.SC Nursing Students
AUTHOR/S : 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

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 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) 3rd- October 2022, Dubai, UAE

PAPERS PRESENTED IN CONFERENCES

TITLE : What is Gender: Encountering Diverse Facets of the Gender Variable
AUTHOR/S : Nidhi Sharma, Geetika Patni,

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

FDPs ATTENDED

TITLE : Life Skills Management
DATE : 17 to 21 April, 2023
ATTENDED BY : Nidhi Sharma
ORGANIZED BY : NITTTR, Chandigarh & MNIT, Jaipur

TITLE : Advanced Research Methodology in Humanities & Social Sciences

DATE : 1 to 7 August, 2022
ATTENDED BY : Nidhi Sharma
ORGANIZED BY : Reva University, Bangalore

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

SESSION CHAIRED

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

MOOC DESIGNED

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

FACULTY ACHIEVEMENT

- Dr. Neha Purohit has contributed as a resource person in developing a Massive Open Online Course (MOOC) on "English Grammar for Competitive Exams" a project by IIIT, Kota and funded by Directorate of Education, Govt. of Rajasthan.
- Dr. Divya Jyot Kaur was invited as a Guest speaker in International Webinar on 'Dynamic Optimism: The Art of Stress Management' on 17 May, 2023. She has also been appointed as reviewer in SAGE Open (SSCI) journal, SAGE Publications Inc., U.S.
- 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.



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.



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

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE : Circularly Polarized Patch Antenna with Gain Enhancement using Reflector
AUTHOR/S : B.R. Sharma
CONFERENCE : Proceedings of International Conference on Advances in Smart Electronics, Materials and Communication Technologies" (ICASEMCT-2023), ISBN: 978-81-954233-1 6, Organised by Department of Electronics and Communication Engineering, SKITM & G, Jaipur

TITLE : Asymmetrical Rectangular Slots and a Parasitic Patch for a Radio Beacon on a Nanosatellite
AUTHOR/S : B.R. Sharma
CONFERENCE : Proceedings of the 4th International Conference on Information Management & Machine Intelligence (ICIMMI '22), ISBN: 978-1-4503-9993-7, ACM Digital Library (ACM Conference Proceeding), Organised by PIET, Jaipur

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

CONFERENCE ATTENDED

TITLE : International Conference on Advances in Smart Electronics, Materials and Communication Technologies (ICASEMCT 2023)
DATE : 17 to 18 February, 2023
ATTENDED BY : B.R. Sharma
ORGANIZED BY : SKITM&G, Jaipur

FDPs ATTENDED

TITLE : Modelling and Simulation of Renewable Energy Systems (MASRES-2023)
DATE : 25 to 29 April, 2023
ATTENDED BY : B.R. Sharma, Komal Sharma, Manasvi Dixit, Rajiv Kumar
ORGANIZED BY : Department of Mechanical Engineering, SKITM & G, Jaipur

TITLE : Smart Grid Enabling Technologies for Sustainable Future
DATE : 13 to 17 March, 2023
ATTENDED BY : Komal Sharma, Manasvi Dixit
ORGANIZED BY : SKITM&G, Jaipur

TITLE : Curriculum Development in Light of NEP 2020 in HEI
DATE : 17 to 21 April, 2023
ATTENDED BY : Rajiv Kumar
ORGANIZED BY : Manipal University, Jaipur

TITLE : Emotional Intelligence
DATE : January to March, 2023 (8 Week)
ATTENDED BY : Komal Sharma
ORGANIZED BY : SWAYAM-NPTEL

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

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 : IP Awareness/Training program under National Intellectual Property Awareness Mission
DATE : 14 March, 2023
ATTENDED BY : B.R. Sharma
ORGANIZED BY : SKITM&G, Jaipur

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

NPTEL / mooKIT / IITBX / SWAYAM COURSE COMPLETED

COURSE/ TOPIC : Renewable Energy Tecchnology and their Uses
COMPLETED BY : Komal Sharma, Manasvi Dixit
DURATION & CATEGORY : 12- week Course offered by IGNOU, New Delhi

COURSE/ TOPIC : Emotional Intelligence
COMPLETED BY : Komal Sharma
DURATION & CATEGORY : January to March, 2023 (8-week NPTEL course). Awarded Elite Certificate and Silver Medal

COURSE/ TOPIC : Accreditation of Undergraduate Engineering Programme
COMPLETED BY : B.R. Sharma
DURATION & CATEGORY : 12- week Course offered by NITTR, Bhopal

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)

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

WORKSHOP ON 'APPLICATION OF MATHEMATICAL MODELLING IN ENGINEERING AND SCIENCES' ORGANIZED

A five-day international workshop on 'Application of Mathematical Modelling in Engineering and Sciences' (IWAMMES-2023) was organized from 18 to 22 April, 2023 by the Department in association with Gwalior Academy of Mathematical Sciences (GAMS) and technically sponsored by The Mathematics Consortium, Pune. The event was graced by the presence of the Chief Guest Prof. Renu Jain, Vice-Chancellor, Devi Ahilya Vishwavidyalaya. Eminent speakers from Johannes Kepler University, Austria; JNU, Delhi; Central University, Rajasthan; Pune University; IIT, Chennai; NIT's and other reputed universities shared their knowledge with the participants. The Chief Guest for the valedictory ceremony was Prof. V.P. Saxena, former Vice- Chancellor, Jiwaji University, Gwalior. Prof. Saxena appreciated the organizers for successful completion of workshop. The coordinators of the event were Dr. Sangeeta Gupta and Dr. Shalini Shekhawat

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.



BOOKS PUBLISHED

TITLE : Vector Calculus

AUTHOR/S : Nawal Kishore Jangid

PUBLISHER : College Book House

TITLE : 3 D Coordinate Geometry

AUTHOR/S : Nawal Kishore Jangid

PUBLISHER : College Book House

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).

PAPER 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

TITLE : Laplace Variational Iteration Method for Solving Fractional Wave like Equations.

AUTHOR/S : Deepika Jain , Sumit Gupta

CONFERENCE : ICMMAAC-22, JECRC University

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 : Teaching Pedagogy & Outcome based Education System in NEP 2020

DATE : 20 to 25 February, 2023

ATTENDED BY : Vijay Kumar Singhal

ORGANIZED BY : Govt. Degree College, Timarni, M.P.

TITLE : Modelling and Simulation of Renewable Energy Systems

DATE : 25 to 29 April, 2023

ATTENDED BY : Sumit Gupta

ORGANIZED BY : SKIT, Jaipur

TITLE : Universal Human values & Ethics in Higher Education

DATE : 14 to 18 March, 2023

ATTENDED BY : Amit Dadheech

ORGANIZED BY : SKIT, Jaipur

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

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 : 25to 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
DATE	: 18 to 22 July, 2022	ATTENDED BY	: Chandra Prakash Jain, Vivek Vijay, Vijay Kumar Singhal , Nawal Kishore Jangid
ATTENDED BY	: Surbhi Sharma	ORGANIZED BY	: AICTE, New Delhi
ORGANIZED BY	: CBCMT, Vellore Institute of Technology, Vellore, India		
		TITLE	: Python 3.4.3
TITLE	: Emerging Trends in VLSI Design & Practical Approach	DATE	: 8 to 12 August, 2022
DATE	: 1 to 6 August, 2022	ATTENDED BY	: Vijay Kumar Singhal, Surbhi Sharma, Jyoti Arora, Nawal Kishor Jangid, Chandra Prakash Jain, Sangeeta Choudhary, Vivek Vijay
ATTENDED BY	: Surbhi Sharma	ORGANIZED BY	: SKIT, Jaipur
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, AICTE

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

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
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TITLE	: 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 Kishor Jangid, Chandra Prakash Jain, Sangeeta Choudhary, Vivek Vijay
ORGANIZED BY	: SKIT, Jaipur

WORKSHOPS ATTENDED

TITLE	: Effective filling of NAAC AQAR-Streamlining Institutional performance
DATE	: 13to 18 March, 2023
ATTENDED BY	: Vijay Kumar Singhal
ORGANIZED BY	: IQAC, Vardhman College of Engineering, Hyderabad

TITLE	: Application of Mathematical Modelling in Engineering and Science
DATE	: 18 to 22 April, 2023
ATTENDED BY	: Amber Srivastava, Rohit Mukherjee, Sangeeta Gupta, Shalini Shekhawat Nawal Kishore Jangid,Chandra Prakash Jain, Vijay Kumar Singhal, Vivek Vijay, Sumit Gupta, Amit Dadheech, Pramila Kumawat, Jyoti Arora, , Deepika Jain, Surbhi Sharma
ORGANIZED BY	: SKIT in association with Gwalior Academy of Mathematical Sciences

TITLE	: Digital Training on Scientific and Patent Writing
DATE	: 1 to 5 May, 2023
ATTENDED BY	: Vivek Vijay
ORGANIZED BY	: Merck Innovation Lab, Bangalore

TITLE	: Applied Mathematics and Computing
DATE	: 12 to 16 June, 2023
ATTENDED BY	: Vivek Vijay
ORGANIZED BY	: Department of Engineering Mathematics and Computing, Madhav Institute of Technology and Science, Gwalior, Madhya Pradesh

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	DURATION & CATEGORY	: Singhal, Nawal Kishor Jangid 25 July to 19 October, 2022 (12-week)
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TITLE	: Basic Statistical Analysis and its Interpretation using SPSS	COURSE TOPIC	: Mathematics for Economics –I
DATE	: 2 to 5 July, 2022	COMPLETED BY	: Pramila Kumawat
ATTENDED BY	: Nawal Kishore Jangid	DURATION & CATEGORY	: 25 July to 14 October, 2022 (12-week)
ORGANIZED BY	: Global Institute of Statistical Solutions (GISS)		

TITLE	: Workshop on Intellectual Property Rights (IPRs) and IP Management for Start up	COURSE TOPIC	: Public Speaking
DATE	: 26 August, 2022	COMPLETED BY	: Chandra Prakash Jain, Deepika Jain
ATTENDED BY	: Pramila Kumawat	DURATION & CATEGORY	: 25 July to 19 October, 2022 (12-week)
ORGANIZED BY	: Intellectual Property Rights (IPR) Cell, SKIT, Jaipur		

TITLE	: International Workshop on Recent Trends in Modeling and its Applications	COURSE TOPIC	: Essential Mathematics for Machine Learning
DATE	: 4 to 8 September, 2022	COMPLETED BY	: Vivek Vijay, Vijay Kumar Singhal, Shalini Shekhawat
ATTENDED BY	: Sumit Gupta, Vivek Vijay, Chandra Prakash Jain	DURATION & CATEGORY	: 25 July to 19 October, 2022 (12-week)
ORGANIZED BY	: Department of Mathematics Postgraduate College Ghazipur, UP.		

TITLE	: Soft Skills
DATE	: 25 July to 19 October, 2022 (12-week)

TITLE	: Problem Solving through Programming in C
DATE	: 25 July to 19 October, 2022 (12-week)

TITLE	: Developing Soft Skills
DATE	: 12 July to 25 September, 2022

STTPS/SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

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

NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC	: Introductory Mathematical methods for biologists
COMPLETED BY	: Sangeeta Gupta
DURATION & CATEGORY	: January to March, 2023 (8 week). Topper

COURSE/ TOPIC	: Enhancing soft skill and personality
COMPLETED BY	: Sangeeta Gupta
DURATION & CATEGORY	: February to April, 2023 (8-week). Topper in 5%

COURSE TOPIC	: Mathematical Methods and its Applications
COMPLETED BY	: Chandra Prakash Jain, Vijay Kumar

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)

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

COURSES MENTORED

MENTOR/S	: COURSE/S
Swati Joshi	: Enhancing Soft Skills and personality
Surbhi Sharma	: Problem Solving through Programming in C
Sangeeta Gupta	: Enhancing Soft Skills and Personality
Surbhi Sharma (Top performing Mentor)	: Enhancing Soft Skills and Personality
Jyoti Arora (Top performing Mentor)	: Soft Skill Development
Chandra Prakash Jain, Deepika Jain	: Public Speaking
Surbhi Sharma	: Problem Solving through Programming in C
Surbhi Sharma, Jyoti Arora	: Soft Skills
Jyoti Arora, Surbhi Sharma	: Problem Solving Through Programming in C
Surbhi Sharma	: Introduction to Abstract and Linear Algebra

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



GLIMPSE OF THE WORKSHOP

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.

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 to 21 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

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

NPTTEL / mooKIT / IITBX / SWAYAM COURSE/S COMPLETED

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

SESSION CHAIRED

SESSION ON : Global Leadership and Innovative Management Practices by Faculty of Management and Commerce
CHAIRD BY : Poonam Ojha
DATE & VENUE : 10 to 11 April, 2023 by Faculty of Management and Commerce, Poornima University, Jaipur

SESSION ON : Global Leadership and Innovative Management Practices by Faculty of Management and Commerce
CHAIRD BY : Swati Joshi
DATE & VENUE : 10 to 11 April, 2023 by Faculty of Management and Commerce, Poornima University, Jaipur

COURSES MENTORED

MENTOR/S : Swati Joshi
COURSE/S : Enhancing Soft Skills and personality
Swati Joshi : Soft Skills
Poonam Ojha : Soft Skills

“The art of teaching is the art of assisting discovery.”

**DEPARTMENTS OF COMPUTER SCIENCE
ENGINEERING & INFORMATION
TECHNOLOGY**

TITLE : Entanglement Generation for Non-Local Photonic Qubits using Quantum Dot within the Optical Micro-Cavity

AUTHOR/S : Amit Kr. Sharma, Sharma, R. & Sharma, S. K.

JOURNAL : Opt Quant Electron

TITLE : Banking and Financial Analytics-An emerging Big Opportunity in Data Analytics

AUTHOR/S : Harpreet Singh Gill, Dr. Sunita Gupta

JOURNAL : Journal of Data Acquisition and Processing

TITLE : Heterogeneous Network-Based Inductive Matrix Methods for Predicting Biomedical Gene Disease

AUTHOR/S : Das, P., Loveleen Kumar, Degadwala, S., Alam, Md. N., Jakhmola, V., & Bhat,

JOURNAL : BioMed Research International

TITLE : Pronunciation Scoring with Goodness of Pronunciation and Dynamic Time Warping

AUTHOR/S : Kavita Sheoran, Arpit Bajgoti, Rishik Gupta, Nishtha Jatana, Geetika Dhand, Charu Gupta, Pankaj Dadheech, Umar Yahya, Nagender Aneja

JOURNAL : IEEE Access, Volume 11, pp. 15485-15495, 2023 (SCIE Indexed, Q1)

TITLE : Soft Computing in Smart Grid with Decentralized Generation and Renewable Energy Storage System Planning

AUTHOR/S : Rasheed Abdulkader, Hayder M.A. Ghanimi, Pankaj Dadheech, Meshal Alharbi, Walid El Shafai, Mostafa M. Fouda, Moustafa H. Aly, Dhivya Swaminathan, Sudhakar Sengan

JOURNAL : Energies, Volume 16, Issue no. 6:2655, pp. 1 20 (SCIE Indexed, Q1)

TITLE : A Hybrid Approach for Face Recognition using LBP and Multi Level Classifier

AUTHOR/S : Mukesh Kumar Gupta, Pankaj Dadheech,

ANKIT KUMAR, ASHOK KUMAR SAINI, NEHA JANU, SANWTA RAM DOGIWAL

JOURNAL : International Journal of Biometrics, Vol. 15, Nos. 3/4, pp. 359-388, 2023 (Scopus Indexed, Q4)

TITLE : Performance Optimisation of Face Recognition based on LBP with SVM and Random Forest Classifier

AUTHOR/S : Ashutosh Kumar, Gajanand Sharma, Rajneesh Pareek, Satyajeet Sharma, Pankaj Dadheech, Mukesh Kumar Gupta

JOURNAL : International Journal of Biometrics, Vol. 15, Nos. 3/4, pp. 389-408, 2023 (Scopus Indexed, Q4)

TITLE : Enhancing Data Security via the Application of Back- Propagation Feed-Forward Methods in Encryption

AUTHOR/S : Vikram Khandelwal, Sumit Kumar, Manish Bhardwaj, Richa Rawal

JOURNAL : Journal of Open Source Developments, Vol. 9 No. 3 (2022) Published: 2022-12-22

TITLE : Biogeography-based Optimization of Artificial Neural Network (BBO-ANN) for Solar Radiation Forecasting

AUTHOR/S : Ajay Kumar Bansal, Virendra Swaroop Sangtani, Pankaj Dadheech, Nagender Aneja and Umar Yahya,

JOURNAL : Applied Artificial Intelligence (SCIE Indexed,Q3)

TITLE : Machine Learning based Diagnosis for Diabetic Retinopathy for SKPD-PSC

AUTHOR/S : M. P. Thiruvenkatasuresh, Surbhi Bhatia, Shakila Basheer, Pankaj Dadheech

JOURNAL : Intelligent Automation & Soft Computing (SCIE Indexed, Q3)

TITLE : Improved Multi-Path Routing for Quality of Service on MANET

AUTHOR/S : M. Vargheese, Surbhi Bhatia, Shakila Basheer and Pankaj Dadheech

JOURNAL : Computer Systems Science and Engineering (SCIE Indexed, Q3)

TITLE : Optimized Resource Allocation and Queue Management for Traffic Control in MANET

AUTHOR/S : Ambika, Surbhi Bhatia, Shakila Basheer, Pankaj Dadheech

JOURNAL : Computer Systems Science and Engineering (SCIE Indexed, Q3)

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

TITLE : Real-Time Survivor Detection System in SaR Missions using Robots

AUTHOR/S : Kaushlendra Sharma, Rajesh Doriya, Saroj Kumar Pandey, Ankit Kumar, G. R. Sinha, and Pankaj Dadheech (2022)

JOURNAL : Drones

TITLE : Cyber-Internet Security Framework to Conquer Energy-Related Attacks on the Internet of Things with Machine Learning Techniques

AUTHOR/S : Anand Kumar, Dharmesh Dhabliya, Pankaj Agarwal, Nagender Aneja , Pankaj Dadheech, Sajjad Shaukat Jamal and Owusu Agyeman Antwi (2022)

JOURNAL : Computational Intelligence and Neuroscience

TITLE : An Enhanced Whale Optimization Algorithm for Clustering

AUTHOR/S : Hakam Singh, Vipin Rai, Neeraj Kumar, Pankaj Dadheech, Ketan Kotecha, Ganeshsree Selvachandran and Ajith Abraham (2022)

JOURNAL : Multimedia Tools and Applications

TITLE : Analysis of Network Slicing for Management of 5G Networks using Machine Learning Techniques

AUTHOR/S : Randeep Singh, Abolfazl Mehbodniya, Julian L. Webber, Pankaj Dadheech, G. Pavithra, Mohammed S. Alzaidi, and Reynah Akwafo (2022)

JOURNAL : Wireless Communications and Mobile Computing

TITLE : Web-Based News Straining and Summarization using Machine Learning Enabled Communication Techniques for Large-Scale 5G Networks

AUTHOR/S : Amita Arora, Ashlesha Gupta, Manvi Siwach, Pankaj Dadheech, Krishnaveni Kommuri, Majid Altuwairiqi and Basant Tiwari (2022)

JOURNAL : Wireless Communications and Mobile Computing

**DEPARTMENT OF MECHANICAL
ENGINEERING**

TITLE : 21 cm H-Line using Radio Telescope

AUTHOR/S : Sunil Kumar, Prem Singh, Md. Suhaib, Manoj Kumar Saini, Nikhil Sharma

JOURNAL : International Journal for Research in Applied Science & Engineering Technology (IJRASET)

TITLE : A Descriptive Statistical Analysis of Enablers for Integrated Sustainable-Green-Lean-Six Sigma-Agile Manufacturing System (ISGLSAMS) in Indian Manufacturing Industries

AUTHOR/S : Dharmendra Hariyani

JOURNAL : Benchmarking: An International Journal

TITLE : A Review: Aeronautical Components and Systems should have their Weight Reduced throughout the Design Process

AUTHOR/S : Raj Kumar

JOURNAL : International Journal of Advanced Engineering, Management and Science (IJAEMS), Vol. 9 (3)

TITLE : A Review of Enhanced Geothermal Systems with Emphasis on the use of Backfilling Materials

AUTHOR/S : Chandra Mohan Kumar, Amit Kumar Bansal, Sudesh Garg, Prem Singh, Madhukar Kumar

JOURNAL : International Journal for Research in Applied Science & Engineering Technology (IJRASET), vol. 11(4), pp. 1477-1480

TITLE : A Review on Feasibility of Diesel/ Biodiesel/ Ethanol/ Bio-ethanol blend as CI engine fuel

AUTHOR/S : Monika Khurana, Monu Gupta, Sumita, Nitin Goyal, Namita Soni

JOURNAL : International Journal for Research in Applied Science & Engineering Technology (IJRASET), vol. 8(4)

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

AUTHOR/S : Dharmendra Hariyani

JOURNAL : Cleaner Waste Systems, vol. 5

TITLE : Advantages and Applications of Sisal Fiber Reinforced Hybrid Polymer Composites in Automobiles: A Literature Review

AUTHOR/S : Manoj Kumar Sain, Praveen Saraswat

JOURNAL : Materials Today: Proceedings

TITLE : An Investigation of Ergonomic Risk for Work Related Musculoskeletal Disorders with Hand-Held Drilling

AUTHOR/S : Manoj Kumar Sain

JOURNAL : EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 10(01), pp36-42

TITLE : Automatic Stair Climbing Trolley	EXPERIMENTAL DESIGN
AUTHOR/S : Namita Soni, Nitin Goyal, Monika Khurana, Monu Gupta, Sumita	AUTHOR/S : Namita Soni, Monika Khurana, Monu Gupta, Sumita, Nitin Goyal
JOURNAL : International Journal for Research in Applied Science & Engineering Technology (IJRASET), Vol.11(3) pp. 1333-1339	JOURNAL : International Journal for Research in Applied Science & Engineering Technology (IJRASET), Vol. 11(4)
TITLE : Design, Fabrication and Testing of a Direct type Solar Dryer	TITLE : Ground Coupled Heat Exchanger- A Sustainable Alternative to Cool Air Conditioning Systems
AUTHOR/S : Ankit Kumar Agarwal, Brij Mohan Sharma, Sandeep Kumar Bhaskar, Arun Beniwal, Yogesh Kumar Sharma	AUTHOR/S : Chandra Mohan Kumar, Madhukar Kumar, Amit Kumar Bansal, Vishnu Jangid
JOURNAL : International Journal of Innovative Research in Science, Engineering and Technology, vol. 12(4)	JOURNAL : International Journal of Multidisciplinary Research in Science, Engineering, Technology & Management (IJMRSETM) vol. 10(3)
TITLE : Development of 3D Printed Bionic Arm Controlled by EMG Sensor	TITLE : Multi-attribute Decision-Making Tools for Selection of Pcms as Latent Heat Thermal Energy Storage Integrated with Solar-Driven Libr-H2O Vapor Absorption System
AUTHOR/S : Sudesh Garg, Amit Kumar Bansal	AUTHOR/S : Dinesh Kumar Sharma
JOURNAL : SKIT Research Journal.	JOURNAL : International Journal of Ambient Energy
TITLE : Effect of Diametric Ratio on Eigen Frequency of Functionally Graded Piezoelectric Round Disc	TITLE : Numerical Calculation of Heat Transfer in a Rectangular Channel with Triangular Vortex Generators in the Channel at Blade Angle 30° for Reynolds No. Of 800, 1200
AUTHOR/S : Trivedra Kumar Sharma , Prem Singh , Monu Gupta , Sanjay Choudhary	AUTHOR/S : Manoj Kumar, Sunil Kumar, Pramod Jain, Saurabh Gupta, MD. Suhaib, Nikhil Sharma
JOURNAL : International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 11(III) Mar 2023- pp.1967 1971	JOURNAL : International Journal for Research in Applied Science & Engineering Technology (IJRASET), Vol. 11(4)
TITLE : Effect of Operating Parameters of Hybrid TIG-MIG Welding on Mechanical Properties and Weld Bead Quality: A Review	TITLE : Performance Assessment of Solar PV Power Plant with Pvsyst Simulation Tool
AUTHOR/S : Brij Mohan Sharma, Vikash Gautam	AUTHOR/S : Sumita, Nitin Goyal, Namita Soni, Monu Gupta, Monika Khurana, Madhukar Kumar
JOURNAL : Materials Today: Proceedings	JOURNAL : International Journal of Scientific Research in Engineering and Management (IJSREM), vol. 7(4)
TITLE : Effect of Power Law Index Variation on Eigen Frequency of Functionally, Graded Piezoelectric Round disc	TITLE : Renewable Energy Utilization for Development of Portable Charging Station
AUTHOR/S : Trivendra Kumar Sharma, Monu Gupta, Raj Kumar, Prem Singh, Amit Jhalani	AUTHOR/S : Prem Singh, Achin Srivastav, Sudesh Garg, Trivendra Kumar Sharma, Chandra Mohan Kumar
JOURNAL : SKIT Research Journal	JOURNAL : SKIT Research Journal Vol. 13(1)
TITLE : Experimental Characterization of Mechanical Properties of Sic/Co Hybrid Reinforced 6061 Aluminum Metal Matrix Composites	TITLE : Selection of Parameters for Electro Chemical Machining (ECM) using Genetic Algorithm
AUTHOR/S : Monu Gupta, Trivendra Kumar Sharma, Nitin Goyal, Namita Soni, Monika Khurana	AUTHOR/S : Prem Singh, Trivendra Kumar Sharma, Md. Suhaib , Sunil Kumar
JOURNAL : International Journal of Innovative Science and Research Technology, vol. 8(3)	JOURNAL : International Research Journal of Innovations in Engineering and Technology (IRJIET), Vol. 7(4)
TITLE : Experimental Investigation of Slurry Erosion Wear Analysis of Epoxy Resin Reinforced with Aramid Woven Fabric with Taguchi	

TITLE : Solar Air Conditioning System	JOURNAL : Chandra Mohan Kumar , Vishnu Jangid
AUTHOR/S : Chandra Mohan Kumar, Trivendra Kumar Sharma	JOURNAL : International Journal of Advanced Research in Arts, Science, Engineering & Management (IJARASEM), vol. 10(2)
JOURNAL : International Journal For Research in Applied Science and Engineering Technology, vol. 11(5)	TITLE : Fabrication and Characterization of Homogenous and Functionally Graded Glass Fiber Reinforced Polymer Composites.
TITLE : Solar Power Green Energy leading to Net Zero Carbon Emissions	AUTHOR/S : Manoj Kumar Sain, Praveen Saraswat.
AUTHOR/S : Amit Kumar Bansal, Madhukar Kumar, Chandra Mohan Kumar , Vishnu Jangid	JOURNAL : Materials Today Proceeding, ISSN No. (Online) 22147853, volume 66, issue 8 (21 July, 2022)
JOURNAL : International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), 12(3)	TITLE : Experimental Investigation of Physical Properties of Homogenous and Functionally Graded Glass Fiber Reinforced Vinyl-Ester Composites.
TITLE : Sustainable Industries in India viz. Plastic, Wastewater, Metal, Food, Dye etc.	AUTHOR/S : Manoj Kumar Sain, Praveen Saraswat.
AUTHOR/S : Vishnu Jangid, Madhukar Kumar, Amit Kumar Bansal, Chandra Mohan Kumar	JOURNAL : SKIT Research Journal (1 July, 2022)
JOURNAL : International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET), vol. 6(3)	TITLE : A Postural Risk Assessment of Manual Dairy Farm Workers using NIOSH Lifting Equation
TITLE : Systematic Literature Review on Thermal and Acoustic Characteristics of Natural Fibre Polymer Composites for Automobile Applications	AUTHOR/S : Manoj Kumar Sain.
AUTHOR/S : Manoj Kumar Sain, Praveen Saraswat	JOURNAL : Evergreen (Volume 9, Sept. 2022)
JOURNAL : Materials Today: Proceedings	TITLE : A Descriptive Statistical Analysis of Barriers to the Adoption of Integrated Sustainable Green-Lean-Six Sigma-Agile Manufacturing System (ISGLSAMS) in Indian Manufacturing Industries.
TITLE : The Sustainability Development of Different Products Used and Green Engineering for Environmental Management	AUTHOR/S : Dharmendra Hariyani
AUTHOR/S : Madhukar Kumar, Amit Kumar Bansal, Chandra Mohan Kumar, Vishnu Jangid	JOURNAL : Benchmarking: An International Journal (08 July, 2022)
JOURNAL : International Journal of Innovative Science and Research Technology, vol. 12(3)	TITLE : Organizational Barriers to the Sustainable Manufacturing System: A Literature Review.
TITLE : Tribological Characterization of SiC/Co Hybrid Reinforced 6061 Aluminum Alloy Composites	AUTHOR/S : Dharmendra Hariyani
AUTHOR/S : Monu Gupta, Trivendra sharma,Raj kumar	JOURNAL : Environmental Challenges (Volume 9, 02 Sept, 2022)
JOURNAL : SKIT Research Journal Vol. 13(1)	TITLE : Investigation on Mechanical Durability Properties of High-Performance Concrete with Nanosilica and Copper Slag.
TITLE : Ultra Voilet Assisted Sanitization for COVID Infections using Robotic Platform	AUTHOR/S : Raj Kumar
AUTHOR/S : Sudesh Garg, Chandra Mohan Kumar, Dr. Prem Singh, Vinay Singh Marwal	JOURNAL : Journal of Nanomaterials (24 August, 2022)
JOURNAL : SKIT Research Journal Vol. 13(1)	TITLE : Thermogravimetric Analysis and Mechanical Properties of Pebble Natural Filler Reinforced Polymer Composites produced through a Hand Layup Technique.
TITLE : Waste Heat Recovery Systems - Make Clients Happy by Removing Recyclable Waste from Garbage Containers and Reducing from Landfills	AUTHOR/S : Raj Kumar.
AUTHOR/S : Madhukar Kumar, Amit Kumar Bansal,	JOURNAL : Advances in Material Science and Engineering (20 September, 2022)
	TITLE : Characterization of Homogenous Acid Catalyzed Biodiesel Production from Palm

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AUTHOR/S : Amit Jhalani, Dinesh Kumar Sharma
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TITLE : Cow-Urine Emulsified Diesel Fuel: Preparation, Stability, and Rheological Study for Diesel Engine Application
AUTHOR/S : Amit Jhalani
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TITLE : Design, Fabrication and Testing of Human Powered Water Purifier
AUTHOR/S : Amit Kumar Bansal, Chandra Mohan Kumar, Sudesh Garg, Madhukar Kumar
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TITLE : Fabrication and Characterization of Homogenous and Functionally Graded Glass Fiber Reinforced Polymer Composites
AUTHOR/S : Manoj Kumar Sain, Praveen Saraswat
JOURNAL : Materials Today: Proceedings, Vol. 66, Issue 8 (2022) pp. 3602-3608

TITLE : Musculoskeletal Health Problems and their Association with Risk Factors among Manual Dairy Farm Workers
AUTHOR/S : Manoj Kumar Sain
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TITLE : Analysis of Mechanical Properties of PP Composites Fabricated by Injection Molding: Composite Materials
AUTHOR/S : Deepak Kumar, Achin Srivastav, Vikash Gautam
JOURNAL : SKIT Research Journal, Vol. 12(2), 2022

TITLE : Dynamic Performance with Kinematic of Cleaning Unit in Thresher Machine
AUTHOR/S : Prem Singh, Achin Srivastav
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TITLE : Experimental Analysis of Blended Fuel with EGR on Agriculture based Diesel Engine
AUTHOR/S : Ashish Nayyar, Naveen Kumar Sain, Chandan Kumar
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AUTHOR/S : Chandan Kumar, Dinesh Kumar Sharma, Amit Jhalani
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TITLE : Ultrasonic Machining of Carbon Fiber-Reinforced Plastic Composites: A Literature Review
AUTHOR/S : Achin Srivastav, Deepak Kumar, Vikash Gautam
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TITLE : Effect of Operating Parameters of Hybrid TIG-MIG Welding on Mechanical Properties and Weld Bead Quality: A Review
AUTHOR/S : Brij Mohan Sharma, Vikash Gautam
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AUTHOR/S : Ashish Nayyar
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AUTHOR/S : Dharmendra Hariyani
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AUTHOR/S : Dharmendra Hariyani
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DEPARTMENT OF ELECTRONICS & COMMUNICATION

TITLE : Plasmonic Refractive Index Sensor based on High Birefringent Symmetrical Photonic Crystal Fiber
AUTHOR/S : Yazusha Sharma, Shruti Kalra, Rukhsar Zafar, Ritambhara,
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AUTHOR/S : Agarwal, A.; Mudgal, N.; Choure, K.K.; Pandey, R.; Singh, G.; Bhatnagar, S.K.,
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AUTHOR/S : Abhinandan Jain, Praveen Kumar Jain, Neeraj Jain
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AUTHOR/S : Kiran Rath
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AUTHOR/S : Mamta Jain, Shubhi Jain
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AUTHOR/S : KK Choure, A Saharia, N Mudgal, R Pandey, A Agarwal, M Prajapat, Ravikumar Maddila, Manish Tiwari, Ghanshyam Singh
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AUTHOR/S : Pallav Rawal, Sanyog Rawat
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AUTHOR/S : Shubhi Jain, P.K.Singhal
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AUTHOR/S : Neeraj Jain, Shashi Kant Sharma, Renu Kumawat
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AUTHOR/S : Namrata Saxena, Varshali Sharma, Ritu Sharma, Kamlesh Kumar Sharma, Sudha Gupta

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AUTHOR/S : Neeraj. Jain, S. K. Sharma, Renu Kumawat, P. K. Jain, D. Kumar, R. Vyas

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DEPARTMENT OF ELECTRICAL ENGINEERING

TITLE : Positioning and Sizing of PV-Based DG and Capacitor in Realistic Distribution Network and Verification through ETAP Simulation

AUTHOR/S : Ankush Tandon, Sarfaraz Nawaz

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AUTHOR/S : Abhishek Gupta and Ramesh Kumar Pachar

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AUTHOR/S : Abhishek Gupta, Sarjana Borana, Shriya Sharma, Shubham Banshiwal

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AUTHOR/S : Abhishek Gupta, Deekshant, Bhavya Deep Sharma, Bhavyanshu Shrimali, Deeksha Choudhary

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TITLE : Review on EV Charging Station based Renewable Energy System

AUTHOR/S : Ravi Sharma, Prateek K. Singhal

JOURNAL : International Journal for Rapid Research I Engineering Technology & Applied Science, Vol. 9; Issue 3 (2023) pp. 1-9

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AUTHOR/S : Ravi Sharma, Prateek K. Singhal

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TITLE : Arduino based Solar Inverter

AUTHOR/S : Prateek Singhal, Neha Faujdar, Neeraj Kumawat, Neeraj Choudhary, Nitish Singh

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AUTHOR/S : Prateek Kumar Singhal, Piyush Jangid, Mohit Sharma, Piyush Choudhary, Mohit Bugaliya

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AUTHOR/S : Suman Sharma , Baibhav Bishal, Neha Janu

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AUTHOR/S : Suman Sharma , Prerna Jain

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AUTHOR/S : Virendra Swaroop Sangtani, Anushka Porwal, Ankit Kumar, Ankit Sharma, Aashish Kaushik

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AUTHOR/S : Virendra Sangtani, Rohit Meerwal, Rahul Meena

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AUTHOR/S : Ajay Kumar Bansal, Virendra Swaroop Sangtani, Pankaj Dadheech, Nagender Aneja, Umar Yahya

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AUTHOR/S : Ankit Vijayvargiya, Bharat Singh, Rajesh Kumar, Usha Desai, Jude Hemanth

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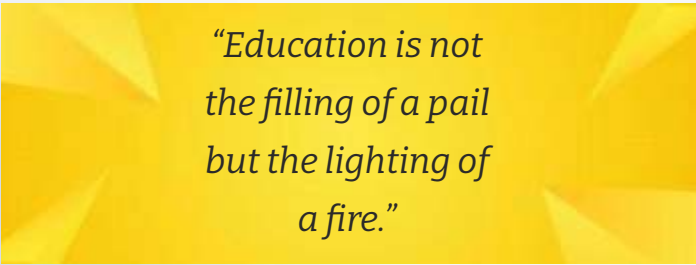
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AUTHOR/S : Cuddapah Anitha, Virendra Swaroop Sangtani, Ajay Kumar Bansal, Mahaveer Kannan R., R. Rajesh Sharma, Saravanan M. S

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TITLE : Mineralogical, Pozzolanitic and Microscopic Characterization of Dolomite Mine Overburden	AUTHOR/S : Nishant Sachdeva	JOURNAL : Materials Today Proceeding.	AUTHOR/S : Abhishek Jain & Rakesh Choudhary	JOURNAL : Journal of Cleaner Production, Journal of Cleaner Production, ISSN number: 0959 6526, Volume 367, 20 September 2022, 132969, DOI: https://doi.org/10.1016/j.jclepro.2022.132969	
TITLE : Pozzolanitic Reaction and Strength Activity Index of Dolomite Powder Incorporated Cement Mortar	AUTHOR/S : Nishant Sachdeva	JOURNAL : Materials Today Proceeding.	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 : Effect of Vibration Induced by Dynamic Tests on an Adjacent Building—Finite Element Investigations	AUTHOR/S : Bharathi M.	JOURNAL : Lecture Notes in Civil Engineering, July 2023	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.jobe.2022.104973
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TITLE : Planning of Affordable Housing for Slum Rehabilitation – A Review Approach	AUTHOR/S : Jetender Babulal Jangid	JOURNAL : TIJER - International Research Journal, Volume 10; Issue 4 (April 2023) pp. 60-64.	TITLE : Resistance of Fly Ash Blended Self-Compacting Concrete Incorporating	AUTHOR/S : Abhishek Jain	JOURNAL : Arabian Journal of Geosciences, volume 15, Article number: 1156 (2022) , ISSN number: 1866-7511, DOI: https://doi.org/10.1007/s12517-022-10424-8
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TITLE : Impact of Waste Iron Slag on Mechanical and Durability Properties of Concrete	AUTHOR/S : Kishan Lal Jain, Dinesh Kumar Sharma, Rakesh Choudhary	JOURNAL : Jordan Journal of Civil Engineering, Volume 17, No. 1, 2023	TITLE : A Study of Correlation Analysis of Sales and Working Capital At IFFCO	AUTHOR/S : Ona Ladiwal	JOURNAL : IJRAR Journal, Vol. 10; Issue 2 (2023)
TITLE : Impact of Clay Brick Dust on Durability Parameters of Bituminous Concrete	AUTHOR/S : Dinesh Kumar Sharma, Nishant Sachdeva	JOURNAL : Materials today, Science Direct	TITLE : E Commerce Market Places, A Pathway to Business Growth and to Enterprenures	AUTHOR/S : Ona Ladiwal	JOURNAL : IJRAR Journal, Vol. 10; Issue 2 (2023)
TITLE : Robustness of Self-compacting Concrete incorporating Bone-china Ceramic Waste					

TITLE : Growth and Instability of India's Agricultural Exports (Pre and Post Reform Period	AUTHOR/S : Ajay Verma	JOURNAL : IJIRSET Journal, Vol. II; Issue 11 (2023)
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TITLE : Advertisement Helps in Brand Recognition: A Case Study on Puma Company	AUTHOR/S : Tarun Sharma	JOURNAL : IJRAR Journal, Vol. 10; Issue 2 (2023)
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TITLE : Technology-Enabled Language Learning: Mediating Role of Collaborative Learning	AUTHOR/S : Journal of Language and Education, Scopus (Q2) vol. 9, Issue 1	JOURNAL : Divya Jyot Kaur
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
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DEPARTMENT OF PHYSICS

TITLE : Circularly Polarized Microstrip Patch Antenna for L Band Satellite Application	AUTHOR/S : B.R. Sharma	JOURNAL : International Journal of Research in Engineering and Science (IJRES), Volume: 11 Issue: 5, May 2023
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TITLE : Synthesis of Nickel Ferrite for Supercapacitor Application	AUTHOR/S : Rajiv Kumar	JOURNAL : Materials Today Proceedings (2022)

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TITLE : A reliable algorithm for a class of singular nonlinear two-point boundary value problems arising in physiology	AUTHOR/S : Sumit Gupta	JOURNAL : International Journal of Modeling, Simulation, and Scientific Computing
TITLE : Solving Triangular Fuzzy Linear Fractional Programming Problem	AUTHOR/S : Jyoti Arora, Surbhi Sharma	JOURNAL : Journal of Applied Mathematics and Statistical Analysis
TITLE : Solving Task Assignment using Branch and Bound theorem	AUTHOR/S : Jyoti Arora, Surbhi Sharma	JOURNAL : Journal of Applied Mathematics and Statistical Analysis

TITLE	:	Performance evaluation of ingenious crow search protein structure prediction
AUTHOR/S	:	Shalini Shekhawat
JOURNAL	:	Processes
TITLE	:	Development and Applications of Augmented Whale Optimization Algorithm
AUTHOR/S	:	Shalini Shekhawat
JOURNAL	:	Mathematics
TITLE	:	Certain Unified Integrals Pertaining to Kiryakova Multiindex -Mittag-Leffler Function
AUTHOR/S	:	Shalini Shekhawat
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TITLE	:	A Novel Approach to Fractional Epidemic Model through Elzaki Decomposition Method
AUTHOR/S	:	Deepika Jain, Sumit Gupta
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TITLE	:	Local Grey Predictor Based on Cubic Polynomial Realization for Market Clearing Price Prediction
AUTHOR/S	:	Shalini Shekhawat
JOURNAL	:	Axioms
TITLE	:	Prediction of Infectious Disease to Reduce the Computation Stress on Medical and Health Care Facilitators
AUTHOR/S	:	Shalini Shekhawat
JOURNAL	:	Mathematics
TITLE	:	Laplace Variational Iteration Method for Solving Fractional Wave like Equations
AUTHOR/S	:	Deepika Jain
JOURNAL	:	Journal of Computational Analysis and Applications, Vol.31, NO. 3, 2023, 377-399
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
JOURNAL	:	SKIT Research Journal

DEPARTMENT OF CHEMISTRY

TITLE	:	Study of Anti Corrosive behavior of 'Clove oil' on Copper in Acidic Medium
AUTHOR/S	:	Archana Saxena
JOURNAL	:	SKIT Research Journal. vol 13. issue 1 (2023), pp 57-60
TITLE	:	Electrochemical oxidation of textile effluents and further treatment by coupled system electrooxidation using Prosopis cineraria
AUTHOR/S	:	Poonam Ojha
JOURNAL	:	Indian Journal of Chemical Technology Vol.30 (2023), pp. 242-246
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
JOURNAL	:	Indian Journal of Chemistry, Vol. 61; July (2022) pp. 723-731
TITLE	:	A Review on Antibiotics Pervasiveness in the Environment and their Removal from Wastewater
AUTHOR/S	:	Sangeeta Vyas, Auju Gupta & Raj. K. Vyas
JOURNAL	:	Separation Science and Technology, (Taylor & Francis) DOI: 10.1080/01496395.2022.2110120



The Importance of a Good Time Table in a Student's Life

Time management is one of the most crucial skills that any student can possess. It is essential to prioritize tasks and create a plan that enables students to achieve their academic and personal goals. A well-designed time table is an effective tool that helps students manage their time efficiently, reduce stress, and improve their overall academic performance.

Creates a Sense of Discipline

A well-structured time table helps students to maintain a sense of discipline in their daily routine. It helps them to prioritize tasks and allocate time to each task efficiently. It also helps them to avoid procrastination and enables them to develop a habit of working consistently towards their goals. This sense of discipline reflects positively in their academic performance as well as their personal life.

Reduces Stress and Anxiety

The pressure to perform well in academics can be adverse for students. A good time table helps to reduce stress and anxiety by providing a clear and realistic plan for completing tasks. When students have a structured plan, they are less likely to feel strained, and they can work towards their goals with a clear mind. This, in turn, helps to improve their mental health and wellbeing.

Improves Time Management Skills

A well-designed time table helps students to develop effective time management skills. It enables them to plan their day efficiently, prioritize tasks, and allocate time to each task based on its importance. This skill is not only beneficial for academic success but also for personal and professional growth. Effective time management skills are highly valued in the workplace and can help students to excel in their future careers.

Enhances Productivity

A good time table helps students to increase their productivity by providing a clear plan for completing tasks within a fixed time period. It enables them to focus on one task at a time and avoid distractions. This, in turn, helps them to complete their tasks efficiently and with excellence. By improving their productivity, students can achieve their academic goals while also having time for personal pursuits.

Conclusion

A good time table is an essential tool for any student who wants to succeed academically and personally. It helps to create a sense of discipline, reduces stress and anxiety, improves time management skills, and enhances productivity. By implementing a well-designed time table, students can achieve their goals efficiently and effectively while also maintaining a healthy work-life balance.

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Electrifying the Future: The Growing Electric Vehicle Scenario in India

The automotive industry is undergoing a transformative shift towards sustainable transportation, and India is at the forefront of this revolution. With a rapidly growing population and increasing concerns about pollution and climate change, India has recognized the need to embrace electric vehicles (EVs) to create a cleaner and greener future. In this technical article, we will explore the key technological aspects driving the remarkable growth of the electric vehicle scenario in India.

Battery Technology Advancements

The heart of any electric vehicle is its battery technology. India has made significant strides in developing advanced lithium-ion batteries, which are crucial for the success of EVs. Domestic battery manufacturing not only reduces dependence on imports but also helps lower the overall cost of EVs. Indian companies are investing in research and development to improve battery performance, energy density, and charging speed. Efforts are also being made to explore alternative battery chemistries and solid-state batteries, which offer higher energy density and enhanced safety.

Charging Infrastructure

A robust charging infrastructure is essential to address prevailing anxiety and ensure the widespread adoption of EVs. India is making impressive progress in establishing a nationwide network of charging stations. The government, private entities, and startups are collaborating to set up both slow and fast-charging stations across urban areas, highways, and public spaces. Fast-charging technologies such as DC fast charging are being implemented to reduce charging time significantly. Additionally, smart charging solutions and grid integration are being explored to optimize charging efficiency and manage electricity demand.

Vehicle-to-Grid (V2G) Integration

India is actively exploring the integration of electric vehicles into the power grid through Vehicle-to-Grid (V2G) technology. V2G allows bidirectional energy flow between EVs and the grid, enabling EVs to serve as mobile energy storage units. During periods of high electricity demand, EVs can feed surplus energy back into the grid, thus supporting grid stability. V2G integration can also enable EV owners to monetize their vehicle's battery capacity by participating in grid services such as demand response and frequency regulation.

Lightweight Materials and Design Optimization

Efficient design and lightweight materials are crucial for enhancing the performance and range of EVs. Indian researchers and manufacturers are focusing on developing lightweight and high-strength materials such as carbon fiber composites and aluminum alloys to reduce the overall weight of EVs without compromising safety. Furthermore, computational simulations and optimization techniques are being employed to improve aerodynamics and minimize energy losses. These efforts aim to enhance the driving range and increase energy efficiency making EVs more attractive to consumers.

Intelligent Mobility Solutions

India's electric vehicle ecosystem is not limited to passenger cars alone. Electric two-wheelers, three-wheelers, and commercial vehicles are gaining traction. Startups are also working on innovative last-mile mobility solutions including electric rickshaws and delivery vehicles. These compact and efficient EVs are designed to cater to the specific needs of urban mobility helping to reduce congestion and air pollution in crowded cities.

Conclusion

Due to advancements in battery technology, development of a robust charging infrastructure, V2G integration, lightweight materials, and intelligent mobility solutions, the electric vehicle scenario in India is witnessing remarkable growth. With the government's support and favorable policies, India will become a global leader in the electric vehicle market. The convergence of technological innovations and a growing awareness of environmental concerns are driving the transition towards a sustainable and electrified future for India's transportation sector.

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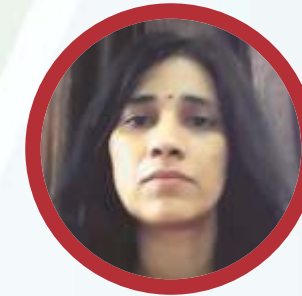


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॥ सृजन ॥

गाँव में पनपता शहर

शायद मुझे अब लौट जाना चाहिए वापस शहर की ओर,
गाँव को मरते देख शहर की ज़िन्दगी की ओर,

जब गया था तो गाँव गाँव था, वहाँ पनघट था, ग्वाले थे,
मंदिर में बैठी औरतों की चुगल थी, बच्चों का कलरव था,
खेल का मतलब पबजी नहीं,
साथ खेले जाने वाला गिल्ली—डंडा था

अब की बार गाँव गाँव नहीं रहा, वो तहस—नहस हो चुका है,
शहर से आती लहरों से, बेईमानी, कटुता और आलस्य से,

मुझे डर है,
ये शहर एक दिन मेरे गाँव को निगल जाएगा
सारे बचपन, जवानी और बुढ़ापे को प्रेम,
सरलता व सहिष्णुता को।

मुझे डर है
एक दिन ये गाँव शहर बन जाएगा,
और खो जाएगा धुएँ में उड़ते मार्गले के बीच।

क्या मैं इसे बचा सकती हूँ ?
क्या कुछ शेष है यहाँ बचाने को ?

मुझे डर है कि ये मेरे साथ ही खंडहर हो जाएगा,
इसलिए मुझे लगता है, मुझे लौट जाना चाहिए
फिर से शहर कि ओर

Ayushi Garg
CSE, II Sem

सब भीतर है

गीत माँगे अक्षर, संगीत माँगे ताल,
कहाँ से लाऊँ ये सब, किसके हैं ये पास
धरती मैया बोली पंछियों से ले लो अक्षर,
सीख लो नदियों—झरनों से ताल,
पर समझू कैसे इनकी वाणी,
मुझसे पृथक हैं ये सब प्राणी ।
अपना ज्ञान हटा, खाली हो कर बैठो,
फिर हर वाणी सुनाई देगी, अपने भीतर,
वहाँ ना कोई उलझन, ना कोई सुलझन होगी,
तुम खुद ही गीत, खुद ही संगीत, ऐसी गति होगी।
आज तक भी यही सिद्ध करता है,
हर पदार्थ तरंग रूप में होता है।

Dr. Pramila Kumawat
Professor, Dept. of Mathematics

ऐसा वक्त फिर आएगा

आँखे नम हैं,
खुशियाँ कम हैं।
आजकल हर तरफ
गम ही गम है।
घर खुशियों से खिलखिलाएगा,
ऐसा वक्त फिर आएगा।

तू हारना मत,
तू रुकना मत।
हालातो से डरकर,
कभी झुकना मत।
मुश्किल का बादल छट जाएगा,
ऐसा वक्त फिर आएगा।

हर तरफ अधेरा है,
बादलों का पहरा है।
तुम चिंता मत करना,
रात के बाद सवेरा है।
सूरज अपनी रोशनी फैलाएगा,
ऐसा वक्त फिर आएगा।

मुश्किल वक्त है,
बिगड़े हालात हैं।
ईश्वर पर भरोसा रखना,
वे हमारे साथ हैं।
उनके आशीर्वाद से सारा जग मुस्कुराएगा,
ऐसा वक्त फिर आएगा।

Palak Agarwal
AI, II Sem

कस्बों का प्रेम

कितना निर्मल व सुखद होता है
छोटे कस्बों में पनपता प्रेम
प्रेम ऐसा, जिसमे बंदिशें हज़ार
किन्तु एक चाय हज़ार पीड़ाओं पर भारी
मैं भले नहीं देख सकती अपनी छत से,
तुम्हारी छत पर
मैं नहीं देख सकती तुम्हें गाते हुए, हँसते हुए
किन्तु मैं देख सकती हूँ तुम्हें
त्योहारों पर,
दिवाली होली भिन्न—भिन्न सवारियों पर
मैं देख सकती हूँ
तुम्हारी ऊँची उड़ती पतंग के साथ झलकती तुम्हारी खुशी को
मैं देख सकती हूँ तुम्हें
अपनी खिड़की से
उस शांत मुस्कुराते चेहरे को
मैं देख सकती हूँ
इस कस्बे में पनपते निश्छल प्रेम को
तुम्हें, उन्हें और इन कहानियों को

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