

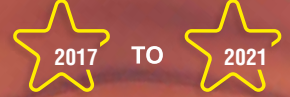


SWAMI KESHVANAND INSTITUTE OF
TECHNOLOGY, MANAGEMENT & GRAMOTHAN

वार्षिक अंक - 51



BY
RAJASTHAN TECHNICAL
UNIVERSITY (RTU), KOTA



CONSECUTIVELY FOR 5th YEAR



THE SKIT TIMES



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VISION

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

MISSION

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

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THE EDITOR SPEAKS

Holistic Education

The holistic education of a human being pertains to five aspects: the physical, the vital, the mental, the psychic and the spiritual. All these five aspects are interrelated and must follow each other chronologically complementing one other until the end of one's life.

The physical education should be based upon a minimum knowledge of the human body, of its structure and its functioning. As the child develops, he must gradually be taught to observe the functioning of his internal organs so that he may control them more and more, and ensure that this functioning remains normal and harmonious.

The vital education is the most indispensable. It should begin at an early age as soon as the child is able to use his senses. The children should be made to understand that the goal of life is not to secure personal happiness, but to be awakened progressively to the truth-consciousness. In this way children will be saved from many bad habits and harmful influences. This vital education has two aspects- the first concerns the development and use of the sense organs and the second to the progressing awareness and control of the character culminating in the transformation of the character.

The concept of mental education is not rightly understood in the present times. Instead of true schooling, a child is made to undergo years of methodical training which is more like cramming. A true mental education leads to the development of power of concentration, thought control and mental silence. Today, children are suffering from constant dispersion of their thoughts. The educator should help the children to develop the faculty of more and more complete absorption in the work at hand. Helping the child to develop love for learning is the most precious gift that one can give to a child.

Psychic & Spiritual Education

Every human being harbours within him the faculty of a greater consciousness which goes beyond the boundaries of his present life. In all exceptional beings, it is always this consciousness that governs their lives and organises both the circumstances of their existence and their individual reaction to these circumstances. A good many children are under its influence, which shows itself very distinctly at times in their spontaneous actions and even in their words. Unfortunately, since parents most often do not know what it is and do not understand what is happening in their child, their reaction to these phenomena is not a good one and all their education consists in making the child as unconscious as possible in this domain and concentrating all his attention on external things.

We should strive to provide this kind of holistic education to our children.



'Education's purpose is to replace an empty mind with an open one.'

-Malcolm Forbes

It is the need of the hour that the academia, the society and the industry stand together and share their commitment, enthusiasm and expertise in order to create responsible, progressive and skilled citizens. In keeping with this spirit, SKIT has not only been focusing on providing holistic education that caters to techno-industry advancement but also value-based education and environment.

It is not about merely teaching etiquette, but it is also about teaching them 'industry-ready skills' to face the challenges placed before them in the dynamic corporate environment, thus bridging the gap between education and industry.

We at SKIT do not just polish stones, we carve them.

I congratulate the entire team of SKIT TIMES for bringing out the annual issue. Wishing you all the very best in all times to come.

Jaipal Meel
Director



'Give a man a fish and you feed him for a day; teach a man to fish and you feed him for a lifetime.'

—Maimonides

With an objective to provide highest quality and holistic education, the vision of SKIT is founded on hard work, a strong emphasis on team work and a high level of responsibility in all walks of life. This visionary culture allows and impresses upon our faculty and students to transform the present-day challenges into stepping stones by accepting responsibilities to work for the betterment of the society and the nation at large.

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. These are the springboards on which we operate.

I heartily congratulate the entire team for bringing out the annual issue of SKIT TIMES which is a mirror of the year long activities of the institution.

Best Wishes

Prof S.L Surana
Director Academics



Always keep looking forward. 'You can never plan the future by the past.'

—Edmund Burke

Over the years the college magazine has provided an opportunity to the faculty and the students to share their topics of interest and ideas. It has also helped in keeping the members updated about the heterogenous activities that are regularly organised in various fields. I feel extremely happy to see the annual issue of SKIT TIMES. Publishing a magazine is indeed a tedious and herculean task. The contribution of the all by making a significant addition to the college magazine through their articles, sketches, poems etc., is appreciable.

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

Ramesh Kumar Pachaar
Principal

SKIT WOMEN CELL CREATING GENDER AWARENESS

According to the traditional notion, genders are fixed categories. However, this concept was challenged by Judith Butler who claimed that 'Identity is performatively constituted.' Butler defined gender as a social role performed/enacted by the individuals, and validated and accepted by society. According to Butler, the meaning of gender depends on the cultural framework within which it is performed, and hence it defies fixities and universalities, because gender is a continuous performance, acquiring new meaning with each repeated performance. Since gender is now considered as a social construct, it is mutable and alterable by political and social reform that would ultimately bring an end to women's subordination. Gender issues are focused on the relationship between men and women in society.

The actions and attitudes of men towards women play an essential role in achieving gender equality. The society should be made to understand that masculine and feminine roles are not biologically fixed but socially constructed.

Women empowerment plays an important role in achieving this gender equality. It includes increasing a woman's sense of self-worth, her decision-making power, her access to opportunities and resources, her power and control over her own life inside and outside the home, and her ability to effect change.

SKIT established 'Women Grievance and Redressal Committee' in the year 2007 which was later transformed to 'Women Development Cell' in the year 2018. The objective of the cell is to create gender awareness among faculty, staff and students by organizing events such as workshops, seminars, conferences etc. Several such programmes like webinars on 'Health and Hygiene' & 'Common Gynaecological Problems in Females'; workshop on 'Stress Management with Yoga', talk on 'Empowered woman-safe woman' etc. were organized by the Women Cell.

We should make efforts to sensitize our society towards the fact that the differences between men and women should not be drawn on rigid ideas of biology but based on gender. This change in ideology will result in a paradigm shift in the understanding of the biological categories of 'man' and 'woman'.

CAMPUS PLACEMENTS 2022

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



CAMPUS PLACEMENTS 2021

Cognizant	139
Infosys	102
TCS	87
ATCS	42
Metacube	31
Pinnacle Infotech Solutions	28
ICICI	27
InTime Tec	25
Swiflearn	23
Byju's	19
Jaro Education	17
G R Infraprojects	14
elInfochips	10
MTX	10
Accenture	7
Bigstep	7
Billdesk	7
Appinventiv Technologies	6
Celebal Technologies	7
Concretio	6
Innraft Solutions	6
Meditab Software	6

Genus	5
Juspay	5
Wonder Cement	5
AAIS Global	4
Bosch	4
Habilelabs	4
Technoforte	4
Torrent Gas	4
Axestrack Software	3
Infogain	3
Rivigo	3
Vodafone Idea	3
Wipro Hr Services-NIIT	3
AppPerfect	2
Atrium	2
Cogitate Technology	2
Decurtis	2
DianApps	2
Eternal Third Eye	2
Jalan Technology	2
Newgen Software Technologies	2

PlanetSpark	2
Robomq	2
Synorig	2
Wiley mthree	2
Wipro	1
Amadeus Software Labs	1
Capgemini	1
Delhivery	1
Hashnode Technologies	1
Hexaware Technologies	1
Joveo Technologies	1
Navi Technologies	1
NCR Corporation	1
OneBanc	1
Punchh Tech	1
Rampwin Technologies	1
Repos Energy	1
Sopra Steria	1
Thrillophilia.com	1
DXC Technology	1
WeVois Labs	1
TOTAL SELECTION	718



BREAKTHROUGH

SKIT RECEIVED A++ Grade BY NAAC

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur has scored 3.67 grade points out of 4 and received A++ grade in the first cycle of National Assessment and Accreditation Council (NAAC). With this accolade, it has become the only technical college in Rajasthan to achieve the highest possible grade in the very first cycle. The peer team of NAAC visited SKIT during May 27-28, 2022 and assessed the institute on the basis of seven parameters related to all aspects of teaching- learning, research- innovation, placements, extension and support activities.

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
 An Autonomous Institution of the University Grants Commission

Quality Profile

Name of the Institution: Swami Keshvanand Institute of Technology, Management and Gramothan
 Place: Ramnagar, Jagatpura, Jaipur, Rajasthan

Criteria	Weightage (W _i)	Criterion-wise Weighted Grade Point (G _i W _i)	Criterion-wise Grade Point Average (G _i W _i /W _i)
I. Curricular Aspects	300	306	1.02
II. Teaching-Learning and Evaluation	300	1285	4.28
III. Research, Innovations and Extension	120	425	3.54
IV. Infrastructure and Learning Resources	100	375	3.75
V. Student Support and Progression	120	425	3.54
VI. Governance, Leadership & Management	092	340	3.70
VII. Institutional Values and Best Practices	100	367	3.67
Total	1012	3626	3.67

Institutional CGPA = $\frac{\sum(G_i W_i)}{\sum W_i} = \frac{3626}{1012} = 3.67$

Grade = **A++**

Date: May 31, 2022

S. C. Sharma
Director

* This certificate is valid for a period of five years with effect from May 31, 2027.
 ** An Institutional CGPA of five points is the range of 3.01 - 4.00 (Grade A+ grade),
 3.20 - 3.40 (Grade A grade), 3.40 - 3.60 (Grade A- grade), 3.70 - 3.80 (Grade B+ grade),
 3.90 - 4.00 (Grade B grade), 3.00 - 3.20 (Grade C+ grade), 3.10 - 3.30 (Grade C grade),
 3.40 - 3.60 (Grade D+ grade), 3.50 - 3.70 (Grade D grade).

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
 An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

The Executive Committee of the National Assessment and Accreditation Council is pleased to declare

Swami Keshvanand Institute of Technology, Management and Gramothan
 Ramnagar, Jagatpura, Jaipur,
 affiliated to Rajasthan Technical University, Rajasthan as

Accredited

with CGPA of 3.67 on four point scale
 at A++ grade
 valid up to May 30, 2027

Date: May 31, 2022

S. C. Sharma
Director



SKIT RECEIVED AAA+ GRADE FROM CAREER 360

One of another proud moment for SKIT as it received AAA+ Grade from Career 360 ranking in 2022. The main objective of Career 360 ranking is to help the students decide the top ranked colleges where they can seek admission. The parameters employed to rate colleges are relevant to the aspirants and are pre-requisites for colleges for providing intellectual ecosystem.

START-UP PROJECTS SELECTED BY MSME

Out of the 257 projects, three start-up projects of SKIT have been selected by the Ministry of MSME, Govt. of India. These projects will be granted aid by the government in the current financial year. Shri Jaipal Meel, Director, SKIT congratulated the students and the faculty associated with the projects on their achievement.

FELICITATION OF STUDENTS BY BANK OF BARODA

One of the premier banks of India, the Bank of Baroda felicitated the students of SKIT on 22 June, 2022 in a ceremony organized at the college. Students were given cash prize of Rs 31000/- on the basis of their performance in academics, sports and overall performance. Kirti Kothari, CS Branch was awarded in the category of academic topper, Amit Godara, ECE Branch in the category of sports and Mansi Pareek, CS Branch was awarded as an all-rounder. Shri Surja Ram Meel, Chairman, SKIT; Shri Jaipal Meel, Director, SKIT; Prof. Sangeeta Vyas, Head student Affairs graced the occasion and congratulated the winners.



Glimpse of the BOB

FREE COVID-19 VACCINATION CAMPS ORGANIZED

Free vaccination camps were organized jointly by the Medical and the Health Department, Govt. of Rajasthan at SKIT, Jaipur on 7 January and 23 February, 2022. These vaccination camps were open for all people in the age groups 15 to 18 and 18+. Shri Jaipal Meel (Director, SKIT) and Prof. Ramesh Pachar (Principal, SKIT) inaugurated the camps. Mr. Ankush Tandon and Mr. Avadesh Sharma were the faculty coordinators for these camps. People from Jagatpura, village Dantli and the students of SKIT got the first and the second doze of either Covishield or Covaxin. Dr. Hiteshika Mehar coordinated the team of doctors at these camps.



Vaccination Camp at SKIT

WORKSHOP ON 'LEVERAGING SCIENCE DIRECT PLATFORM FOR MAXIMUM IMPACT' ORGANIZED

The Central Library, SKIT organized an online workshop on 'Leveraging Science Direct Platform for Maximum Impact' on 20 January, 2022. The workshop discussed on how to get maximum impact factor for the research papers by using science direct platform. Librarians from various colleges and institutes, research scholars and faculty of the college participated in the workshop and learnt the basics of publishing their research utilizing various research platforms.

FREE MEDICINE CAMP AT SKIT

The Government of India launched 'Azadi ka Amrit Mahotsav' to commemorate 75th year of Independence of India. The Ministry of AYUSH inaugurated various programs under its ambit. One such program involved large scale distribution of AYUSH prophylactic medicine and Homeopathy medicine 'Arsenic Album 30'. These medicines have been found effective as prophylactics against



Medicine Distribution Camp at SKIT

COVID-19. In this regard, Central Research Institute of Homeopathy, Sector- 26, Pratap Nagar, Jaipur, an autonomous body under Central Council for Research in Homeopathy, New Delhi (under Ministry of AYUSH) organized a free Homeopathy medicine distribution camp on January 19, 2022 at SKIT, Jaipur.

'AAGAZ': ORIENTATION PROGRAMME FOR B. TECH. I YEAR STUDENTS

SKIT conducted the Orientation Programme, 'Aagaz' for B.Tech first year students on 11 November, 2021. Due to ongoing pandemic, the programme was organized in virtual mode on Cisco WebEx online platform. Prof. R. A Gupta, Vice Chancellor, RTU, Kota graced the inaugural ceremony as the Chief Guest and Mr. Surendra Lamba (IPS) was invited as the Guest of Honour. They were welcomed by Shri Surja Ram Meel, Chairman, SKIT.



AAGAZ: Inaugural Ceremony

The induction cum orientation programme was illuminated with knowledge by the words of the Chief Guest, Prof. R. A Gupta. He inspired the students and explained the new policies of the RTU to the freshers. Prof. Ramesh Pachar, Principal, SKIT apprised the newcomers of the infrastructure of the college. He also introduced the students with the mission and vision of the college. This was followed by the address of Mr. Surendra Lamba (IPS), an alumnus of SKIT. He threw light on the importance of continuous learning in human life. The inaugural ceremony ended with vote of thanks proposed by Prof. Rohit Mukherjee, In charge B.Tech First Year. He wished the students a great learning experience at SKIT.

SKIT TOPS RANKINGS IN QUALITY INDEX VALUE FOR FIFTH YEAR

SKIT, Jaipur maintained the top position continuously for the fifth time in Quality Index Value rankings released by the Rajasthan Technical University, Kota for the 2021-22 session. Shri Jaipal Meel, Director, SKIT dedicated the success to the team efforts of the SKIT family.

EDUCATION EXCELLENCE AWARD TO SHRI JAIPAL MEEL

SKIT added one more feather in its cap as Shri Jaipal Meel, the Director of the institute, received Education Excellence Award from the honorable Governor of Rajasthan for his outstanding & valuable contribution in the field of imparting technical education.



Glimpse of Award to Shri Jaipal Meel

AWARD FOR 'EXCELLENCE IN PLACEMENTS'

SKIT got the award for 'Excellence in Placements' 2021 in Engineering Segment by First India. SKIT has been maintaining an excellent placement record crossing the mark of 550 in 2021. Shri



Glimpse of IPR CELL Established In Skit

Jaipal Meel, Director, SKIT dedicated the award to the hard work of the students as well as the faculty.

IPR CELL ESTABLISHED IN SKIT

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has taken a giant leap towards research and development with the establishment of Intellectual Property Rights Cell in the institute premises. The inauguration of IPR cell was held on 19 August, 2021. Dr. Savita Choudhary is the Convenor of IPR cell. The Co-conveners are Dr. Praveen Jain and Dr. Rishi Vyas. The prime objective of IPR Cell is to disseminate knowledge on registering patents in India and abroad thereby encouraging faculty members and research scholars to go for patentable works. The members of IPR Cell are Dr. Lalit Gehlot, Dr. Neha Janu, Dr. Manasvi Dixit, Dr. Sunita Gupta, Ms. Pooja Choudhary, Dr. Ravish Pandey, Mr. Ankit Vijayvargiya, Mr. Praveen Saraswat and Dr. Abhishek Jain.



The first event of IPR cell was conducted on 'Intellectual Property Rights and Innovations' on the occasion of inaugural of IPR cell. Around 400 participants registered and participated in this event. The chief guest of the seminar Dr. Manu Sikarwar, Project Director, DST(Raj.) conveyed that Rajasthan was the first state in India to start the state level IPR policy center with which many educational and research institutes including University of Rajasthan have already been collaborating for all IPR related issues. The guest of honor of this event, Dr. D. K. Palwalia, Dean, IPR Cell, RTU (Kota) suggested the steps for revenue generation from the IPR cell. He encouraged the participants for filing patents on their innovative ideas.

SKIT RANKED 'AA' IN SWAYAM NPTEL RATINGS 2021

SKIT has achieved 'AA' rating for third consecutive time in NPTEL Local Chapter rating 2021. The institute has been ranked 18th



SKIT RANKED FIRST IN 'MAXIMUM NUMBER OF NPTEL STARS' CATEGORY

SKIT has been ranked first in 'Maximum number of NPTEL stars' category. SKIT is the only institute in Rajasthan to get position in NPTEL rankings.



STUDENT AND FACULTY TOPPERS IN NPTEL

89 students and faculty members have topped various courses in January-April, 2021 & JULY- December, 2021 Sessions.

COURSE	NAME	TOPPER%
Experimental Physics II	Rajiv Kumar (Faculty)	Topper of the course
Digital Circuits	Mamta Jain (Faculty)	of 1%
Introduction to Algorithms and Analysis	Deepa Modi (Faculty)	of 1%
Soft Skills	Krishna Dayal Sharma (Faculty)	of 1%
Soft Skills	Neha Purohit (Faculty)	of 1%
Soft Skills	Sheeba Anjum (Faculty)	of 1%
Operations Management	Achin Srivastav (Faculty)	of 1%
Introduction to Algorithms and Analysis	Nidhi Srivastav (Faculty)	of 2%
Emotional Intelligence	Shanu Tripathi (Faculty)	of 2%
Mathematics for Economics I	Vivek Vijay (Faculty)	of 5%
Manufacturing Systems Technology I And II	Achin Srivastav (Faculty)	of 5%
Enhancing Soft Skills and Personality	Dr Nidhi Sharma (Faculty)	of 5%
Operations Management	Dr Dheeraj Joshi (Faculty)	of 5%
Programming in Java	Vishal Kumar Nama (Student)	of 1%
Short Fiction in Indian Literature	Srishti Kulshrestha (Student)	of 1%
Programming in Java	Vinay Bansal (Student)	of 1%
Soft Skills	Pratiksha Sharma (Student)	of 1%
Programming In Java	Vikalp Jain (Student)	of 1%
Soft Skills	Lakshita Natani (Student)	of 1%
Programming, Data Structures and Algorithms Using Python	Chhavi Jangid (Student)	of 1%
Construction Methods and Equipment Management	Abhinav Goyal (Student)	of 1%
Enhancing Soft Skills and Personality	Srishti Kulshrestha (Student)	of 1%
Enhancing Soft Skills and Personality	Ashu Agarwal (Student)	of 1%
Enhancing Soft Skills and Personality	Chhavi Sharma (Student)	of 1%
Problem Solving through Programming in C	Pratiksha Sharma (Student)	of 1%
Introduction to Algorithms and Analysis	Akshita Sharma (Student)	of 1%
Programming in Java	Devanshu Soni (Student)	of 2%
Problem Solving through Programming in C	Yuvraj Singh Naruka (Student)	of 2%
Developing Soft Skills and Personality	Amit Mehra (Student)	of 2%
Data Base Management System	Yashvir Singh Nathawat (Student)	of 2%
Speaking Effectively	Karan Sabnani (Student)	of 2%
Problem Solving through Programming in C	Rakshita Jadoun (Student)	of 2%
Enhancing Soft Skills and Personality	Yaman Kumar Malik (Student)	of 2%
Enhancing Soft Skills and Personality	Jigyasa Singh (Student)	of 2%
Programming in Java	Komal Soni (Student)	of 2%
Problem Solving through Programming in C	Nikita Gupta (Student)	of 2%
Problem Solving through Programming in C	Jayesh Singh (Student)	of 2%
Programming in Java	Ritesh Sharma (Student)	of 5%
Programming in Java	Jagrati Sharma (Student)	of 5%
Programming in Java	Sonali Kumawat(Student)	of 5%
Programming in Java	Harsh Sharma (Student)	of 5%
Digital Circuits	Mishu Pushpendra Jain (Student)	of 5%
Problem Solving through Programming in C	Kush Vasaniya (Student)	of 5%

COURSE	NAME	TOPPER%
Programming in Java	Gaurav Jangid (Student)	of 5%
Programming in Java	Arpita Dubey (Student)	of 5%
Developing Soft Skills and Personality	Shagun Agarwal (Student)	of 5%
Developing Soft Skills and Personality	Jigyasa Singh (Student)	of 5%
Soft Skills	Yaman Kumar Malik (Student)	of 5%
Soft Skills	Prateek Gaur (Student)	of 5%
Soft Skills	Purvi Harpalani (Student)	of 5%
Big Data Computing	Pranav Parashar (Student)	of 5%
Soft Skills	Ritika Agarwal (Student)	of 5%
Soft Skills	Anjali Sharma (Student)	of 5%
Soft Skills	Harsh Vardhan Goel (Student)	of 5%
Soft Skills	Akhilesh Chaturvedi (Student)	of 5%
Big Data Computing	Neetu Agrawal (Student)	of 5%
Soft Skills	Aman Bhargava (Student)	of 5%
Soft Skills	Ashu Agarwal (Student)	of 5%
Advanced Machining Processes	Hemant Yogi (Student)	of 5%
Soft Skills	Chhavi Sharma (Student)	of 5%
Soft Skills	Naman Goyal (Student)	of 5%
Data Base Management System	Kushal Rawat (Student)	of 5%
Remote Sensing and GIS	Jenisha Devnani (Student)	of 5%
Programming in C++-	Gautam Kumar Jain (Student)	of 5%
Data Base Management System	Mishu Pushpendra Jain (Student)	of 5%
Data Base Management System	Chhavi Jangid (Student)	of 5%
Speaking Effectively	Neha Maheshwari (Student)	of 5%
Soft Skill Development	Devanshu Soni (Student)	of 5%
Soft Skill Development	Akshay Verma (Student)	of 5%
Microprocessors and Microcontrollers	Neha Maheshwari (Student)	of 5%
The Joy of Computing using Python	Kushal Rawat (Student)	of 5%
Programming in Java	Shubham Nagar (Student)	of 5%
Problem Solving through Programming in C	Umang Mathur (Student)	of 5%
Enhancing Soft Skills and Personality	Pratyush Chhipa (Student)	of 5%
English Language for Competitive Exams	Ayush Podar (Student)	of 5%
Programming in Java	Mukul Jangid (Student)	of 5%
Psychology of Stress, Health and Well-Being	Shiv Maheshwari (Student)	of 5%
Problem Solving through Programming In C	Shailendra Singh (Student)	of 5%
Enhancing Soft Skills and Personality	Purvi Harpalani (Student)	of 5%
Enhancing Soft Skills and Personality	Monay Chhattani (Student)	of 5%
Enhancing Soft Skills and Personality	Jayesh Singh (Student)	of 5%
The Joy of Computing using Python	Lalit Kumawat (Student)	of 5%
Problem Solving through Programming in C	Aayushi Sharma (Student)	of 5%
Problem Solving through Programming In C	Lakshita Natani (Student)	of 5%
Enhancing Soft Skills and Personality	Kanishk Pratap Singh Rathore (Student)	of 5%
Product Design and Manufacturing	Yogendra Singh (Student)	of 5%
Enhancing Soft Skills and Personality	Giritra Saraswat (Student)	of 5%
Programming in Java	Khushi Malasiya (Student)	of 5%
Properties of Materials (Nature and Properties of Materials: III)	Divya Arora (Student)	of 5%

'NORTH-EAST INDIA': A CONFLUENCE OF CULTURES PORTRAYING THE BEAUTY OF UNITY IN DIVERSITY ORGANIZED

An online event 'North-East India' was organized by the ECA Cell in collaboration with Ek Bharat Shrestha Bharat Club on 14 March at 6:00 p.m. on Google Meet. The program aimed at shaping the national identity of different cultural groups and acknowledging the dynamics of race relations – as it is between India's mainland population and the people of north-east India.

The motive of the event was to make students aware of how unity in diversity increases the morale of people at workplaces, organizations, and community and helps to increase coordination, relationships, and teamwork among people, thus improving performance, work quality, productivity, and lifestyle. Participants were asked to present poems, stories, or anecdotes about their cultural heritage. From trying 'Dal Bati' in the college mess to visiting the places of historical importance in Jaipur, students from the north-east studying in our college also shared how they have experienced the beauty of the confluence of their culture with the Rajasthani culture.



The event was hosted by Aayushman Mishra and was coordinated by Akshat Surana and Disha Tyagi. E- Certificates were issued to all the participants.

CLUB ORIENTATION ORGANIZED

ECA Cell conducted 'Club Orientation' on 21 November, 2021. SKIT offers 24 clubs and 10 student chapters. In order to make the newcomers aware of these clubs, ECA cell conducted 'Club Orientation' for the session 2021-22. The event started with a welcome note followed by the introduction of ECA cell by the student coordinators. Individual clubs were invited for their presentations with a brief introduction by the student coordinators of the respective clubs. The club presentations were followed by the introduction about student chapters. The event concluded with the vote of thanks by the student coordinator.



GLIMPSE OF CLUB ORIENTATION

'BITIYA': EVENTS ON NATIONAL GIRL CHILD DAY ORGANIZED

The National Girl Child Day is celebrated in India every year on 24 January. It was initiated in 2008 by the Ministry of Women and Child Development and the Government of India in order to spread public awareness about inequities that girls face in the Indian society.

To support this great initiative, two online events under the title 'BITIYA' were organized by the ECA Cell on 24 January, 2022. The first online event was Poster -Making and Slogan-Writing competition. It was an opportunity for the students to showcase their talents by acknowledging and enlightening the rights a girl owns and to promote awareness about the inequalities that a girl child faces and to educate people about girl's education. Another event was organized for the faculty members of SKIT. They were asked to post their pictures with their daughters.

The objective of both the events was to celebrate this day as an auspicious day and to make everyone aware about the fact that we are the children of one God and all are equal. There was a considerable participation in both the activities.



GLIMPSE OF BITIYA EVENT

SWACHHTA PAKHWADA 2021

"Swachhata Pakhwada" as a part of "Swachhata Abhiyan" was initiated, with the objective of bringing a fortnight of intense focus on the issues and practices of Swachhata. To support this great initiative of Govt. of India and to create awareness about the need of cleanliness, ECA cell had organized many events during the observation of swachhta pakhwada from 1 to 15 September, 2021. In this 15 day event, activities like pledge ceremony, plantation, cleanliness drive, poster making, slogan writing, speech, debate and poetry competition, guest talk, ideathon, quiz and extempore were conducted.



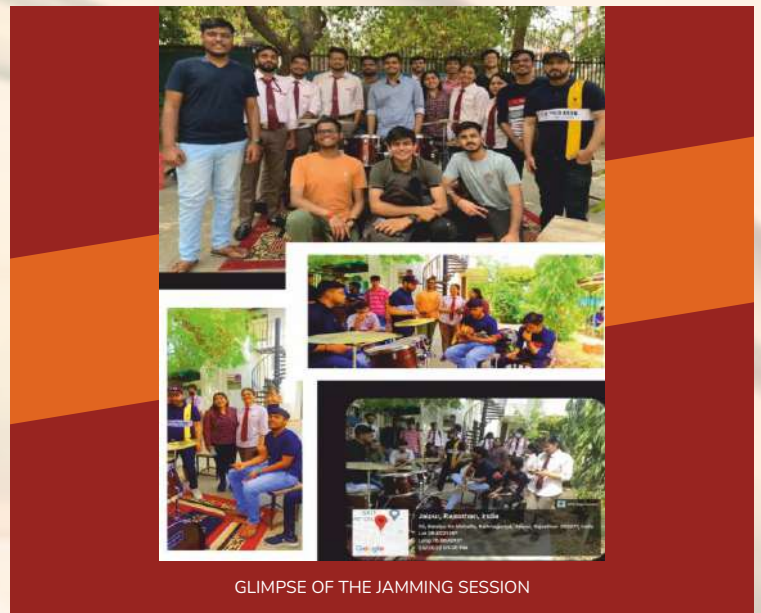
SWACHHTA PAKHWADA 2021

The guests and invited speakers of this 15-day event were Ms. Shipra Sharma (RAS), Shri Jaipal Meel (Director, SKIT), Prof. (Dr.) Rohit Mukherjee (In-Charge, B.Tech-I Year, SKIT) and Dr. Pooja Goyal (Vrikshawali Foundation). E-certificates were given to all the participants.

EVENTS ORGANIZED BY MUSIC CLUB

EVENT 1: JAMMING SESSION – 'RANG-E-SAUGAT'

On the festival Holi, an offline group jamming session – 'Rang-e-Saugat' was organized by the Music club on 23 March, 2022 at SKIT Tea Post. The theme of the event was 'Holi' in which the club members showed their musical talents. It was an open session which required no pre- registrations. The objective of this event was to encourage other students to sing and join the club band. It was a delightful activity enjoyed and appreciated by everyone.



GLIMPSE OF THE JAMMING SESSION

EVENT 2: 'BIGUL'-A TRAINING WORKSHOP

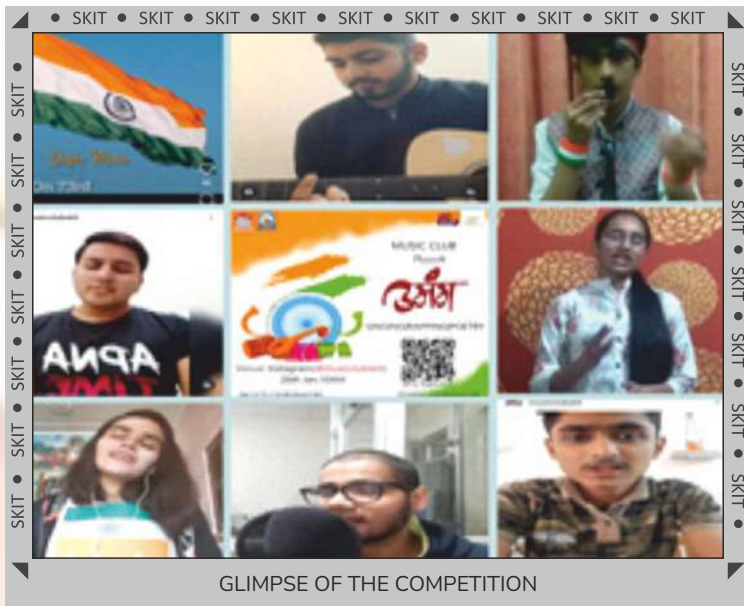
An offline group singing event 'BIGUL': A Training Workshop was organized by the Music Club from 30 November to 25 December, 2021. In this event, the club members were divided into five teams. Each team was under the supervision of two mentors, out of which one was vocalist and other one was instrumentalist and then they were given a song to present.

The videos were posted on the official Instagram page of Music Club, SKIT @musicclubskit. The event was of great success and each participant got a different learning experience.



EVENT 3: 'UMANG'- INTRA COLLEGE SINGING & POETRY COMPETITION

An online music competition 'UMANG' on the theme of patriotism under the categories of Singing, Rapping and Poetry was organized by the Music Club on 26 January, 2022. The 18 short videos of the participants (solo singing and poetry) were posted on the official Instagram page of the Music Club, SKIT @musicclubskit. The best three videos were judged by the faculty coordinators of the Music Club and winners were announced under the categories of Singing and Poetry.



GLIMPSE OF THE COMPETITION



GLIMPSE OF THE COMPETITION

EVENTS ORGANIZED BY DANCE CLUB

EVENT 1: 'FOOTLOOSE' DANCE COMPETITION

The Dance Club organized an intra-college dance competition 'FOOTLOOSE, 2022'. The competition took place in two rounds:



GLIMPSE OF DANCE COMPETITION

the first round was the audition round which was conducted on 28 March, 2022, and the final round on 30 March 2022. Both the rounds were conducted in the Gyan Mandir Auditorium. The competition had two categories – solo and duet. Participants were given a time limit of three minutes and three and a half minutes for solo and duet categories respectively. The dance performances included well-known dance styles like folk, hip-hop, traditional, and contemporary.

In the solo dance category Ms. Vidushi Pareek of B.Tech. IV Year (ECE) got the first prize and Mr. Shivam Gautam of B.Tech. I Year (CSE) got the second Prize. In duet dance category Ms. Pritisha Jain and Ms. Kareena Khanna of B.Tech. II Year (CSE) won the competition.

The program was hosted by Awani Jain and Aayushman Mishra; and coordinated by Vinit K. Shah, Mehak Jain, Vaibhav Jain, Yayati, Eshita Goyal, Shradha Jain, Devanshi Dadhich, Preksha Gupta, Akshat Surana, Chirag Jain, Hardik Sharma, Atishayee Singh and Trivi Jain under the guidance of the chief coordinator of the Dance Club Ms. Nikhar Bhatnagar, and the chief coordinator of the ECA-Cell Dr. Komal Sharma.

EVENT 2: INTRA -COLLEGE DANCE COMPETITION 'UTSAV'

SKIT Dance Club organized an intra- college dance competition 'UTSAV' on Ganpati theme in an online mode on 22 September, 2021. A series of energetic performances by participants were showcased for the students on zoom meeting and the winners were decided on the basis of voting by the audience. Khushi Punia, Shagun Agarwal and Sakshi Khandelwal stood first, second and third respectively. The faculty coordinator was Ms Nikhar Bhatnagar.

EVENTS ORGANIZED BY SKIT GRAMOTHAN CLUB

EVENT 1: AYURVEDIC MEDICAL CAMP ORGANIZED

An Ayurvedic Medical Camp was organized by the Gramothan Club of SKIT at Sajal Praxhar School, Jagatpura Kacchi Basti, Jaipur on 7



GLIMPSE OF THE CAMP

March, 2022 from 12:00 p.m. to 2:00 p.m. The guest of honor Dr. Ramesh Kumar Sharma (Ph.D.-Ayurveda, M.D.-Ayurved Vachaspati, Ayurvedacharya, Ayurveda Office, Govt. Ayurveda Aushadhalaya, Jaipur) along with faculty coordinators Ms.Kiran Rathi and Dr. Shubhi Jain & student participants reached the school and launched the camp. About 100 children were checked and provided with appropriate medication. Free medicines and first-aid kits were given to the school with the objective to provide initial medical care to underprivileged children with common health issues.

EVENT 2: SUMMER CARNIVAL

The summer carnival was organized at Sajal Prakhar School, Jagatpura Kacchi Basti, Jaipur on 4 April, 2022 from 11:00 a.m. to 1:00 p.m. Faculty co-ordinators Ms.Kiran Rathi and Ms. Rukhsar Zafar along with student coordinators reached the school and initiated the carnival in which about 120 children were provided food and were given different types of gifts. Various types of activities were also organized. The children enjoyed a lot during the whole program.



GLIMPSE OF THE CARNIVAL

EVENT 3: CLOTHES DONATION DRIVE-2

The donation collection started from 21 November, 2021 and continued for 4 days. This donation drive was organised on 24 November, 2021 from 1:30 to 4:30 p.m. All the student participants along with the faculty coordinators went to Baba Ramdev Kachhi Basti, Sultan Nagar and Gujar ki thadi, Jaipur.

EVENTS ORGANIZED BY ECO FRIENDS CLUB

EVENT 1: ESSAY WRITING COMPETITION ON 'SUSTAINABLE DEVELOPMENT'

The Ecofriends club of SKIT organized an essay writing competition on 'Sustainable Development' on 25 May, 2022. The students enthusiastically participated in the event and expressed their views in the form of an essay. 13 students participated in the event and three of them were declared winners.



GLIMPSE OF ESSAY WRITING COMPETITION

EVENT 2: POSTER -MAKING COMPETITION

The club organized a Poster -Making competition on 'India after Covid Impact' on 15 December, 2021. The objective was to know the views of the students about the growth and development of India in covid time and also to test their creativity.



ORGANIZED BY ECO FRIENDS CLUB

EVENTS ORGANIZED BY NSS CLUB

EVENT 1: SPECIAL CAMP AT VILLAGE DANTLI ORGANIZED

A 7- day special camp was organized by the National Service Scheme Club of SKIT at a village named Dantli, Tehsil Sanganer, Jaipur from 22 to 28 March, 2022. The objective of the camp was to establish an interface with the village community, to build rapport with the community members and to develop understanding of the village in order to develop a long term institutional relationship with the community thereby contributing to the upliftment of the people therein.

There were about 50 volunteers in the camp. Students from all branches and all years participated with great zeal. The camp began with the inaugural function organized at the college and was finally flagged off by the Principal, Prof. Ramesh Pachar and the Nodal Officer, Dr. Anurag Sharma boosting up the confidence of the students. The camp was funded by the Government of Rajasthan..



GLIMPSE OF THE CAMP

The major activities undertaken during the seven days were- Meeting with Villagers and Panchayat Representatives, Prabhat Pheri, Rally on Water Conservation, Yoga, Rally on Nasha Mukti, Seminar on 'Basic First Aid for Animals', Awareness about Bio-degradable Wastes, Cleaning of nearby Yards, Gift Distribution to School Kids and Awareness Programs on Sanitary Napkins, Government Schemes, Scholarships for girls, Banking, Swachchh Bharat Abhiyaan, Swine flu Awareness, Aids Awareness, and Awareness regarding New Technology in Irrigation.

EVENT 2: TREE PLANTATION DRIVE

The NSS unit of SKIT organized a Tree Plantation Drive on 1 January, 2022 at Ramnagariya, Jagatpura, Jaipur. Dr Anurag Sharma was the Program Officer. He addressed the volunteers and apprised them of the importance of trees in human life. The volunteers planted around 100 trees which included Neem, Peepal, Banyan etc.



TREE PLANTATION DRIVE

EVENTS ORGANIZED BY SCIENCE & TECHNOLOGY CLUB

EVENT 1: BOOTCAMPS ON C++/JAVA ORGANIZED

Bootcamps on C++ and JAVA were organized by S&T Club from May 28 to July 23, 2021. More than 30 students participated in these bootcamps. Students were provided live sessions, assignments and practice questions. Participants were given the facility of 24x7 doubt support on S&T Club's official Discord Server. E-Certificates were provided to all the active participants on completion of the bootcamps. The tutors for the bootcamps were Kush Vasaniya (2nd Year, CSE) for C++ and Keshav Pareek (2nd Year, CSE) for JAVA.

EVENT 2: BOOTCAMP ON DSA ORGANIZED

A bootcamp on Data Structures & Algorithms for Beta- Community (2nd Year) was organized by the core team members of S&T Club from August 11 to September 2, 2021. More than 90 students participated in this bootcamp. This bootcamp aimed to familiarize the students with the concepts of data structures. E-certificates were also provided to all the participants for their active participation. The tutors for the bootcamp were Ritesh Sharma (3rd Year, CSE), Rohit Verma (3rd Year, CSE) and Chirag Jain (2nd Year, CSE).

EVENT 3: WEBINAR ON CYBER SECURITY

A webinar on Cyber Security was organized on 8 October, 2021 in association with Zeetron Networks, Jaipur. More than 90 participants participated in the event. This webinar helped the students to learn the importance of cyber security in this digitally evolving world. The mentor for this webinar was Mr. Siddharth Sharma, Senior Security Analyst, Zeetron Networks who shared his knowledge on the topic and answered all the queries asked by the students. E-certificates were provided to all the participants.

EVENT 4: WEBINAR ON CLOUD COMPUTING

A webinar on Cloud Computing was organized on 15 October, 2021 in association with Zeetron Networks, Jaipur. More than 100 participants participated in the event. This webinar helped the students to gain basic knowledge about cloud computing, cloud services and data centers. The mentor for this webinar was Mr. Ronak Samriya, Senior Engineer, Zeetron Networks. He explained the importance of 'Cloud' in the present scenario. E-certificates were provided to all the participants.

EVENTS ORGANIZED BY EK BHARAT SHRESTHA BHARAT CLUB

EVENT 1: CHARCHA@EKTA -AN ONLINE WEBINAR

On the occasion of 146th birth anniversary of Sardar Vallabhai Patel which is celebrated as National Unity Day, Ek Bharat

Shreshtha Bharat Club of SKIT organized a webinar on 31 October, 2021 via Google Meet. Shri Somkant Ji Sharma (State Secretary, HSS Foundation Rajasthan) was invited as the speaker and chief guest of the event. He motivated the youth with his valuable words. He encouraged the students and make them aware of the lifestyle and thoughts of Sardar Vallabhai Patel.



Glimpse of the webinar

EVENT 2: WEBINAR ON NATIONAL YOUTH DAY

An online webinar on National Youth Day was conducted by EBSB Club on 12 January, 2022 on Google meet. Dr. Shailendra Ji (Social worker) was the guest speaker of the event. Dr. Shailendra began his talk with the words of Swami Vivekanand Ji, 'Strength is Life, Weakness is Death. Expansion is Life, Contraction is Death. Love is Life, Hatred is Death. He also shared a small story of Swami Vivekanand Ji. He motivated the youth present in the webinar.



GLIMPSE OF 'NATIONAL YOUTH DAY'

TRAINING PROGRAMME ON 'DRONE' ORGANIZED

Robotics Club conducted a 5- day online training programme on 'DRONE' from 1 to 5 February, 2022 under the SPICES scheme of AICTE. The event provided the students practical exposure in the field of robotics and hands on session on designing and fabrication and testing of drone for disaster management and many more applications.

CODING COMPETITION BY TECH INNOVA CLUB

To enhance the competitive programming culture and to make the students familiar with programming and coding, Tech Innova Club

organized a coding competition under Code Chef Local Chapter, on 4 October, 2021. The students were given 6 programming problems with varying difficulty levels to be solved in a duration of 2 hours. 45 students participated in the competition. The top three performing students- Oswin Rozario, Dhairya Upadhyay and Manu Pareek were given appreciation certificates. A team of faculty and student coordinators and volunteers conducted the event.



GLIMPSE OF THE CODING COMPETITION

INDUSTRIAL TRAINING PROGRAM ON 'ROBOTICS: INTRODUCTION TO INNOVATION'

SKIT, Jaipur organized a 15- day industrial training program on 'Robotics: Introduction to Innovation' under AICTE-scheme for Promoting Interests, Creativity and Ethics among Students (SPICES) from 1 to 15 September, 2021 This training program was jointly organized by the Robotics Club, SKIT and the Enovate Skill, a start-up of NITTTR Chandigarh under the Ministry of HRD, Govt. of India.

The training was inaugurated by Dr. Mukesh Arora, HOD-ECE. He welcomed the participants and the training instructor, Mr. Ajay Godara, CEO, Enovate Skill. Mr. Ajay Godara spoke about various aspects of technical education to fill the gap between Industry & Academia. In this training program, students learned the various aspects of automation, drone making, testing and troubleshooting. Mr. Godara emphasized, that in near future, the usage of drones will be increased manifold. Training was well designed as per industry skill requirement. 140 students of B.Tech. participated in this training program. Dr. Dheeraj Joshi, HOD-ME motivated the students to utilize the acquired knowledge in their project work. The event was coordinated by Mr. Brij Mohan Sharma, Mr. Lalit Kumar Lata, Ms. Pooja Choudhary and Mr. Sudesh Garg.

EVENTS ORGANIZED BY EMBEDDED CLUB

EVENT 1: HANDS-ON PRACTICAL EXPOSURE ON 'ATMEGA16 & ARDUINO'

A lecture series on 'Hands-On Practical Exposure on Atmega16 and Arduino' was organized by Embedded club in the last three weeks of April, 2021 for providing hands-on practical exposure on

Atmega16 and Arduino. Udyan Srivastava & Shubham Udasaria coordinated this event. On the first day (15 April, 2021), the basics of Atmega16 and Arduino were discussed. Besides this, Relay Interfacing and its application areas were also talked about. On the Second Day (26 April, 2021), Ultrasonic Sensor Interfacing and its application areas were discussed. On the third day (29 April, 2021), Basics of Embedded C Programming and thinking process for generating code depending upon particular application were taught.

EVENT 2: IN-HOUSE TRAINING ON 'EMBEDDED SYSTEMS'

A five- day in-house training for III semester was organized by Embedded Club from 11 to 15 September, 2021. The objective of the training was to give exposure about embedded systems & recent trends in this field. The students were made familiar with the fundamentals of Arduino IDE & Arduino uno as well as the Proteus software. Approximately 123 students participated in the event. The resource persons were the faculty coordinators of the club- Prof. S.N.Vijayvergia, Ms. Priyanka Sharma and Mr. Vikas Pathak; Club Coordinator, Mr. Udyan Srivastava & Club Volunteer, Mr. Shubham Udasaria. Ms. Rajni Idwal coordinated the event.

EVENTS ORGANIZED BY RENEWABLE ENERGY CLUB

EVENT 1: PRESENTATIONS ON 'RENEWABLE ENERGY IN INDIA: CURRENT STATUS AND CHALLENGES'

Renewable Energy Club, SKIT organized online presentations on the topic 'Renewable Energy in India: Current Status and Challenges' in June 2021. Students of all years participated in the event.

EVENT 2: QUIZ COMPETITION ON 'CLEAN ENERGY'

The club organized an online quiz competition on 'Clean Energy' on



the occasion of Gandhi Jayanti in October 2021. Students of all years participated in the event. A quiz of 30 questions was conducted on an online platform using google form. Participants were asked to submit the quiz in 30 mins. 66 students participated in the event. Certificates were awarded to the participants and winners as decided by the jury.

DEPARTMENTS OF

COMPUTER SCIENCE ENGINEERING & INFORMATION TECHNOLOGY

FDP ON 'ARDUINO-AN OPEN-SOURCE ELECTRONICS MICROCONTROLLER' ORGANIZED

A Faculty Development Program on 'Arduino-An Open-Source Electronics Microcontroller' was organized jointly by Spoken Tutorial, IIT Bombay and the Departments of CS & IT under the Center of Excellence for Internet of Things (IoT-COE), Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur from 22 to 26 March, 2022. The objective of the program was to make the participants understood the structure of Arduino microcontroller, its components IDE and its applications. Its main focus was to explore the research opportunities and challenges of using Arduino. 35 participants from SKIT registered and completed the event. The coordinators of the event were Dr. Sunita Gupta, Ms. Nidhi Srivastav and Mr. Mehul Mahrishi

FACULTY DEVELOPMENT PROGRAMME ON 'COMPUTER VISION AND IMAGE PROCESSING' ORGANIZED

A one week International Faculty Development Program on 'Computer Vision And Image Processing' was successfully organized by the Departments of CS & IT under the aegis of IQAC & PAQIC from 31 Jan to 4 Feb, 2022. The objective of the program was to introduce the participants with the fundamentals of Computer Vision and Image Processing, Scene Reconstruction, Object & Event Detection Video Tracking, Object Recognition, 3D Pose Estimation, Learning, Indexing, Motion Estimation, Visual Serving, 3D Scene Modeling and Image Restoration, Image Classification - Decision Tree, Principal Component Analysis, MATLAB GUI : Image Conversion,

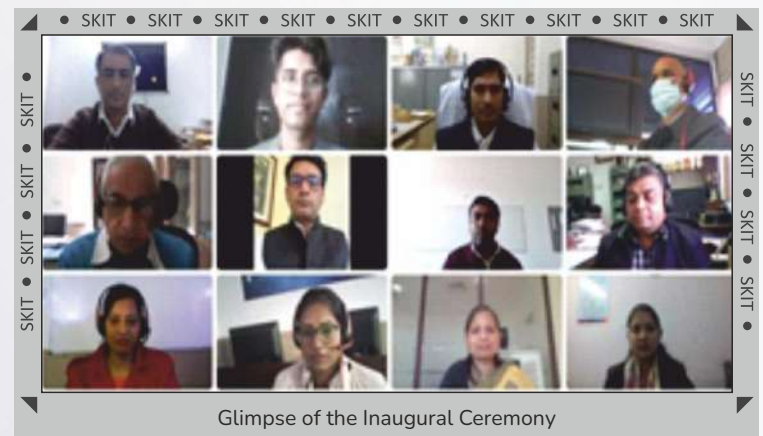


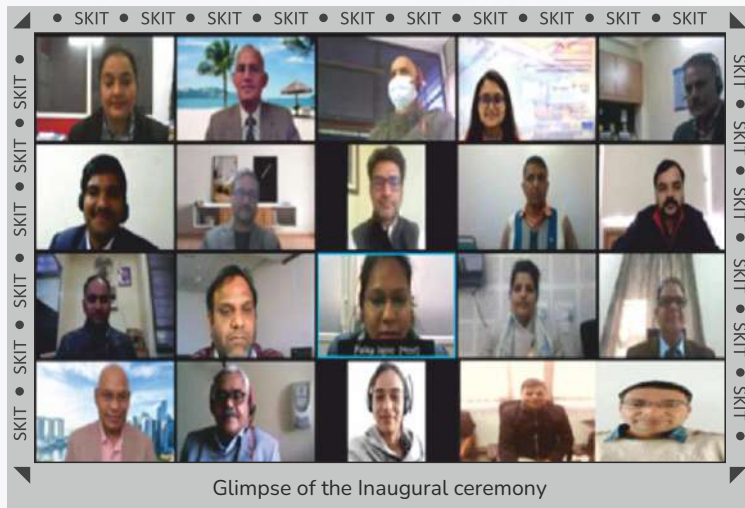
Image Filtering Techniques, Applications of Computer Vision and Image Processing. More than 400 participants registered for the event. Dr. Gaurav Aggarwal from Uzbekistan and various other eminent speakers from reputed institutions and industries across the globe shared their technical knowledge. The coordinators of the FDP were Mr. Harpreet Singh Gill, Ms. Rubal Deep Gill, Ms. Nikhar Bhatnagar and Ms. Priyanka Sharma

INTERNATIONAL CONFERENCE ON 'EMERGING TECHNOLOGIES IN COMPUTER ENGINEERING: COGNITIVE COMPUTING AND INTELLIGENT IoT' ORGANIZED

An international conference on 'Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT' was organized by the IoT-RC, RTU recognized Centre of Excellence of CSE and IT departments from 4 to 5 Feb, 2022.

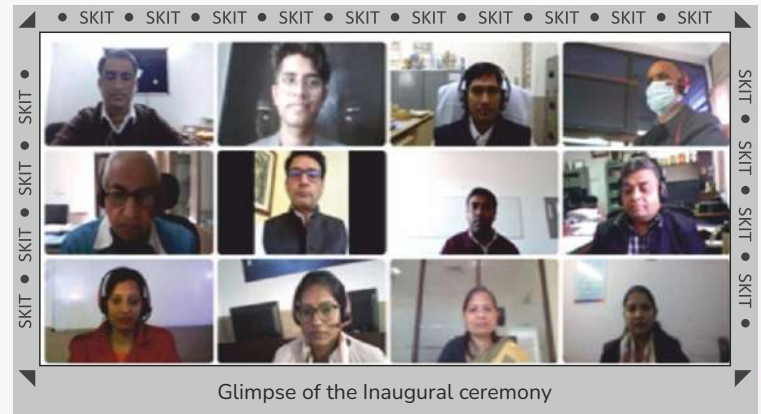
Prof C.M Choudhary and Prof Anil Chaudhary were the Organizing Chair. The Conference Chair was Prof. Arun K. Somani, Associate Dean for Research, College of Engineering, Iowa State University, USA and the General Chair was Prof. Seeram Ramakrishna, Vice President, Research Strategy. The Chief guest of the conference was Prof. R.A. Gupta, Hon'ble Vice-Chancellor, Rajasthan Technical University (RTU), Kota and the Guest of Honor was Dr. Mani Madhukar, Program Manager, Global University Programs, IBM Research, India. Shri Jaipal Meel (Director, SKIT), Prof S.L. Surana (Director Academics, SKIT) and Prof. Ramesh Pachar (Principal, SKIT) were also present during the conference inaugural session.

Ms. Anjana Sangwan, Secretary, ICETCE-2022 presented the summary report of the conference. 229 Papers from 8 countries were received and with a 25% acceptance rate, 58 papers were selected for publication. Conference publication partner was Springer ICCIS series and contributors were IBM, Infosys Campus Connect and Naturals Group.



INTERNATIONAL FDP ON 'COMPUTER VISION AND IMAGE PROCESSING' ORGANIZED

With an objective to introduce participants with the fundamentals of 'Computer Vision & Image Processing and Scene Reconstruction', a one week international Faculty Development Program was organized by the Departments of CSE & IT under the aegis of IQAC & PAQIC at SKIT from 31 January to 4 February, 2022. Various topics like 'Object & Event Detection', 'Video Tracking', 'Object Recognition', '3D Pose Estimation', 'Learning', 'Indexing' etc. were discussed in the FDP. More than 400 participants from various educational institutes across India and outside India registered for the event. The coordinators of the FDP were Mr. Harpreet Singh Gill, Ms. Rubal Deep Gill, Ms. Nikhar Bhatnagar and Ms. Priyanka Sharma.



NATIONAL WORKSHOP FOR NON-TEACHING STAFF ORGANIZED

A one-week national workshop on 'Basics of Cyber Security, MS Office 365 & Work Etiquette' was organized by the Departments of CSE & IT under the aegis of IQAC and PAQIC from 20 to 24 Dec, 2021 for non-teaching staff. The workshop was technically supported by the Computer Society Chapter, IEEE, Delhi Section. The workshop aimed at introducing non-teaching staff with the recent advancements in technological world and to enhance their presentation and documentation skills through training, performance and evaluation. More than 100 participants from various educational

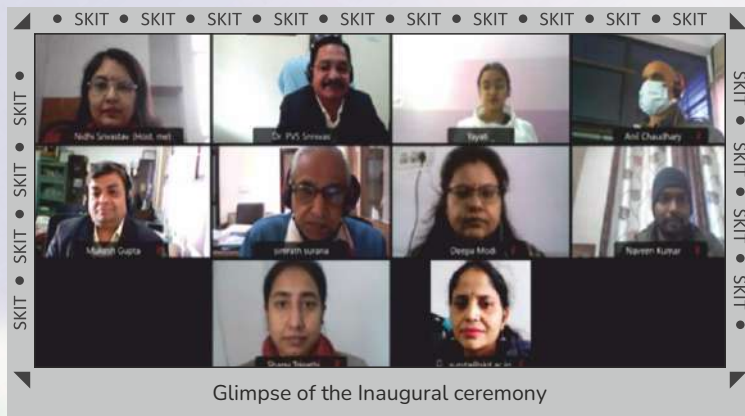


institutes across India registered for the event. Various eminent speakers from industry and academia like Infosys, Microsoft, IBM and IEEE shared their technical knowledge in the workshop. The conveners of the workshop were Dr. Sunita Gupta, Ms. Nidhi Srivastav. The coordinators of the workshop were Dr. Meenakshi Nawal, Ms. Kajal Mathur.

INTERNATIONAL FDP ON 'RESEARCH APPLICATIONS IN THE FIELD OF ARTIFICIAL INTELLIGENCE' ORGANIZED

An online one-week international Faculty Development Program on 'Research Applications in the field of Artificial Intelligence' was organized by the Departments of CSE & IT under the aegis of IQAC & PAQIC from 4 to 8 January, 2022. The program intended to introduce the participants with the fundamentals of Artificial Intelligence, its applications, research opportunities and challenges associated with it.

Dr. Saurabh Gupta (USA), Dr. Abdul Razak (UK), Dr Pramod Gaur (UAE) and various eminent speakers from reputed institutions and industries across the globe shared their technical knowledge with the participants. More than 200 participants from various



educational institutes across India and outside India registered for the event. The coordinators of the FDP were Dr. Sunita Gupta, Ms. Nidhi Srivastav, Ms. Shanu Tripathi and Ms. Deepa Modi.

FDP ON 'OUTCOME-BASED EDUCATION: A PARADIGM FOR ASSESSMENT & ACCREDITATION'

A five-day FDP on 'Outcome-Based Education: A Paradigm for Assessment & Accreditation' was jointly organized by the Department of Computer Science and Engineering & the Department of Information Technology, SKIT, Jaipur under the aegis of IQAC & PAQIC from 24 to 28 August, 2021. The program had the primary objective of creating awareness about Outcome Based Education (OBE) among faculty and peer groups. The chief guest of



the event was Col. B. Venkat, Director, Faculty Development Cell, AICTE, New Delhi. Ms. Shubha Gupta, Digital & Mobile Client Services and Excellence (CSE) Leader (CIC India), IBM, India; Mr. Jaipal Meel, Director, SKIT; Prof Anil Chaudhary, HOD-IT and Prof. Mukesh Kumar Gupta, HOD-CSE were also the part of the inaugural ceremony along with the participants and the organizing team. The FDP was convened by Dr. Pankaj Dadheech, and Mr. Mehul Mahrishi. Coordinators were Ms. Deepa Modi and Ms. Shanu Tripathi.

STUDENT WORKSHOP ON 'PROGRAMMING IN PYTHON'

The Departments of Computer Science and Information Technology organized a five-day student workshop on "Programming in Python" for B. Tech I Year Students from AI, CSE, IT and ECE discipline from 16 August to 20 August, 2021. The workshop was designed to impart basic knowledge of Python and to create awareness among the students about the future prospects in Python programming. This workshop aimed to educate students from the basics of writing to running Python scripts. Emphasis was placed on features unique to Python, such as tuples, array slices, and output formatting. 191 students participated in the



programme. The event was coordinated by Ms. Palika Jajoo, Mr. Ganpat Singh Chauhan and Mr. Neeraj Garg.

BOOK CHAPTERS PUBLISHED

- BOOK : Software Defined Networking for Ad Hoc Networks
- AUTHOR/S : Kirubasri G., Sankar S., Pandey D., Pandey B.K., Nassa V.K., Dadheech P.
- BOOK CHAPTER : Software-Defined Networking-Based Ad hoc Networks Routing Protocols
- PUBLISHER : EAI/Springer Innovations in Communication and Computing book series (EASICC). Springer
- BOOK : Cyber Security and Network Security, Series: Advances in Cyber Security
- AUTHOR/S : Binay Kumar Pandey, Digvijay Pandey, Subodh Wairya, Gaurav Agarwal, Pankaj Dadeech, Sanwta Ram Dogiwal and Sabyasachi Pramanik
- BOOK CHAPTER : Application of Integrated Steganography and Image Compressing Techniques for Confidential Information Transmission
- PUBLISHER : Scrivener Publishing LLC, Wiley
- BOOK : Artificial Intelligence in Industrial Applications: Learning and Analytics in Intelligent Systems
- AUTHOR/S : Tapesh Kumar, Mehul Mahrishi, Gaurav Meena
- BOOK CHAPTER : A Comprehensive Review of Recent Automati Speech Summarization and Keyword Identification Techniques
- PUBLISHER : Springer, Singapore
- BOOK : Machine Intelligence-Based Trend Analysis of COVID-19 for Total Daily Confirmed Cases in Asia and Africa
- AUTHOR/S : Yibeltal Meslie, Wegayehu Enbeyle, Binay Kumar Pandey, Sabyasachi Pramanik, Digvijay Pandey, Pankaj Dadheech, Assaye Belay, Ashwini Saini
- BOOK CHAPTER : Methodologies and Applications of Computational Statistics for Machine Intelligence, pp 164-185
- PUBLISHER : IGI Global

BOOKS PUBLISHED

- TITLE : Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT
- AUTHOR/S : Valentina E. Balas, G. R. Sinha, Basant Agarwal, Tarun Kumar Sharma, Pankaj Dadheech, Mehul Mahrishi
- PUBLISHER : CCIS Series by Springer, CCIS Volume No. #1591, Springer Cham, Switzerland, Denmark.
- TITLE : IoT: Understanding the Fundamentals, Operations and Applications
- AUTHOR/S : Pankaj Dadheech, Sanwta Ram Dogiwal
- PUBLISHER : AGPH Books (Academic Guru Publishing House), India.
- TITLE : A Handbook on Image Processing and Wireless Communication
- AUTHOR/S : Nikhil Ranjan, Pankaj Dadheech, Sanwta Ram Dogiwal
- PUBLISHER : AGPH Books (Academic Guru Publishing House), India.
- TITLE : Big Data Analytics
- AUTHOR/S : Pundru Chandra Shaker Reddy, T. Kamaleshwar, B. Padmaja, Pankaj Dadheech
- PUBLISHER : Pinnacle EDU CARE, India.

PAPERS PUBLISHED IN CONFERENCE

PROCEEDINGS

- TITLE : Analysis of Crime Rate Prediction using Machine Learning and performance Analysis using Accuracy Metrics
- AUTHOR/S : Meenakshi Nawal, Kusumlata Jain, Smaranika Mohapatra, Sunita Gupta
- PROCEEDING: A Springer Chapter: Proceedings of Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT ,5th International Conference, ICETCE 2022, Jaipur, India, February 4 to 5, 2022, Pages 302-309
- TITLE : Query-Based Image Retrieval using SVM
- AUTHOR/S : Neha Janu, Sunita Gupta, Meenakshi Nawal, Pooja Choudhary
- PROCEEDING: A Springer Chapter: Proceedings of Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT ,5th International Conference, ICETCE 2022, Jaipur, India, February 4 to 5, 2022,(Springer) Pages 529-539



Failure comes only when we forget our ideals and objectives and principles.

TITLE : A Compressive Review on Internet of Things in Healthcare: Opportunity, Application and Challenges

AUTHOR/S : Dadheech, P., Dogiwal, S.R., Kumar, A., Raja, L., Varshney, N., Janu, N.

PROCEEDING : Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT. ICETCE 2022. Communications in Computer and Information Science, Vol. 1591, Pages 226-235. Springer.

TITLE : Internet of Things based Real-Time Monitoring System for Grid Data

AUTHOR/S : Dogiwal, S., Dadheech, P., Kumar, A., Raja, L., Kumar Singh, M., Janu, N.

PROCEEDING : Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT. ICETCE 2022. Communications in Computer and Information Science, Vol. 1591, Pages 236-247. Springer.

TITLE : Artificial Intelligence Based Algorithm to Support Disable Person

AUTHOR/S : P. Vijayakumar, T.Yuvaraj, C. A Sathiya Moorthy, Makarand Upadhyaya, Pankaj Dadheech, Pravin R. Kshirsagar

PROCEEDING : AIP Conference Proceedings 2393, 020073 (2022), pp. 020073-1~020073-6.

TITLE : Covid Heuristic Analysis using Machine Learning

AUTHOR/S : Pravin R. Kshirsagar, Makarand Upadhyaya, Pankaj Dadheech, T.Yuvaraj, C. A. Sathiya Moorthy

PROCEEDING : AIP Conference Proceedings 2393, 020077 (2022), pp. 020077-1~020077-5.

TITLE : Fatigue Detection using Artificial Intelligence

AUTHOR/S : Pravin R. Kshirsagar, Pankaj Dadheech, T.Yuvaraj, C. A Sathiya Moorthy, Makarand Upadhyaya

PROCEEDING : AIP Conference Proceedings 2393, 020080 (2022), pp. 020080-1~020080-5.

TITLE : Network Security using Multi-layer Neural Network

AUTHOR/S : P. Vijayakumar, C. A. Sathiya Moorthy, Makarand Upadhyaya, Pankaj Dadheech, T.Yuvaraj, Pravin R. Kshirsagar

PROCEEDING : AIP Conference Proceedings 2393, 020089 (2022), pp. 020089-1~020089-5.

TITLE : IoT, Enabling Technologies, and Sensor Node Deployment Pattern in WSN

AUTHOR/S : Sunita Gupta, Meenakshi Nawal, Neha Janu and

Dinesh Goyal

PROCEEDING : ECS Transactions, Scopus Indexed, Volume 107, Number 1, 2022.

TITLE : Performance Comparison of Network Intrusion Detection System based on different Pre processing Methods and Deep Neural Network

AUTHOR/S : Gaurav Meena, Babita Dhanwal, Mehul Mahrishi, and Kamal Kant Hiran

PROCEEDING : ACM Proceedings of the International Conference on Data Science, Machine Learning and Artificial Intelligence, DSMLAI '21' (SCOPUS)

TITLE : A Formal Study of Shot Boundary Detection Approaches – Comparative Analysis

AUTHOR/S : Nankani Hanisha, Mahrishi Mehul, Morwal Sudha, Hiran Kamal

PROCEEDING : Proceedings of Soft Computing: Theories and Applications. Advances in Intelligent Systems and Computing, Springer (SCOPUS)

PAPERS PRESENTED IN CONFERENCES

TITLE : A Method for Data Compression and Personal Information Suppressing in Columnar Databases

AUTHOR/S : Gaurav Meena, Mehul Mahrishi, Ravi Raj Choudhary

CONFERENCE: Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT. ICETCE 2022. Communications in Computer and Information Science, vol 1591. Springer.

TITLE : Comparative Study of DBSCAN in reference to Automatic Detection of Parameters

AUTHOR/S : Priyanka Sharma, Nikhar Bhatnagar, Anurag Bhatnagar

CONFERENCE: International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASET 2021), SKIT, Jaipur, 1 to 2 September, 2021

TITLE : Blockchain Enabled Smart Ticketing Solution

AUTHOR/S : Yameen Khan, Preeti Indoriya, Priyanka Sharma

CONFERENCE: International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASET 2021), SKIT, Jaipur, 1 to 2 September, 2021

TITLE : Android Battery Optimizer

AUTHOR/S : Rohan Mulay, Anurag Bhatnagar, Nikhar Bhatnagar, Priyanka Sharma

CONFERENCE: International Conference on Recent

Advancements in Science, Engineering & Technology, and Management (ICRASET 2021), SKIT, Jaipur, 1 to 2 September, 2021

TITLE : Survey on Medical Image Processing on Cloud
AUTHOR/S : Priyanka, Bright Keswami, Rashid Hussain
CONFERENCE: International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASET 2021), SKIT, Jaipur, 1 to 2 September, 2021

TITLE : Security Compliance in Cloud Computing
AUTHOR/S : Priyanka, Bright Keswami, Rashid Hussain
CONFERENCE: International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASET 2021), SKIT, Jaipur, 1 to 2 September, 2021

TITLE : A Study Paper on Congestion Control at City Side Curb Area
AUTHOR/S : Deepa Modi, Nidhi Srivastav, Sunita Gupta, Sumitra Jhanwar
CONFERENCE: International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASET 2021), SKIT, Jaipur, 1 to 2 September, 2021

TITLE : Optimization of Mixture Inventory System subject to OSL and Fill Rate Constraint
AUTHOR/S : Achin Srivastav, Nidhi Srivastav
CONFERENCE: International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASET 2021), SKIT, Jaipur, 1 to 2 September, 2021

TITLE : A Design and Analysis on Blockchain Consensus Algorithms
AUTHOR/S : Meenakshi Nawal, Shalini Puri, Shanu Tripathi
CONFERENCE: International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASET 2021), SKIT, Jaipur, 1 to 2 September, 2021

TITLE : Centralized Healthcare System
AUTHOR/S : Pankaj Dadheech, Ankit Kumar, Mahender Kumar Beniwal, Chetan Tiwari, Devbrat, Divya Sharma
CONFERENCE: International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASET

2021), SKIT, Jaipur, 1 to 2 September, 2021

TITLE : Edge Computing: An Effective Approach to Big Data Analytics
AUTHOR/S : Mudeet Jain, Pankaj Dadheech
CONFERENCE: International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASET 2021), SKIT, Jaipur, 1 to 2 September, 2021

TITLE : Sentiment Analysis using various Machine Learning Algorithms: A Comparative Review
AUTHOR/S : Dolly Mittal, Palika Jajoo
CONFERENCE: International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASET 2021), SKIT, Jaipur, 1 to 2 September, 2021

FDPs ATTENDED

TITLE : Artificial intelligence, Robotics & Automation
DATE : 9 to 14 March, 2022
ATTENDED BY : Priyanka Sharma, Nidhi Srivastav
ORGANIZED BY : School of Automation, Banasthali Vidyapeeth, Rajasthan

TITLE : Recent Trends in AI, IOT and Blockchain
DATE : 9 to 18 February, 2022
ATTENDED BY : Nidhi Srivastav
ORGANIZED BY : Centre for Artificial Intelligence, Banasthali Vidyapeeth

TITLE : Innovation & Research trends in Artificial intelligence
DATE : 21 to 26 February, 2022
ATTENDED BY : Priyanka Sharma
ORGANIZED BY : Easwari Engineering College, Chennai

TITLE : Application of Artificial Intelligence on VLSI and Communication Technology
DATE : 7 to 11 March, 2022
ATTENDED BY : Shanu Tripathi
ORGANIZED BY : SKIT, Jaipur

TITLE : Machine Learning & Deep Learning towards Computer Vision
DATE : 28 March to 2 April, 2022
ATTENDED BY : Priyanka Sharma
ORGANIZED BY : Dr. B. C. Roy Engineering College, Durgapur

TITLE : Arduino
DATE : 22 to 26 March, 2022

ATTENDED BY : Priyanka Sharma, Shanu Tripathi, Rubal Deep Gill, Harpreet Singh Gill, Priyanka, Pankaj Dadheech, Anjali Pandey

ORGANIZED BY : SKIT, Jaipur

TITLE : Advancements in Security using Deep Learning

DATE : 21 to 25 March, 2022

ATTENDED BY : Priyanka Sharma

ORGANIZED BY : GMR Institute of Technology & Velagapudi Ramakrishna Siddhartha Engineering College

TITLE : The Emerging Era of Data Science

DATE : 21 to 25 February, 2022

ATTENDED BY : Priyanka Sharma

ORGANIZED BY : Vivekananda Institute of Technology, Jaipur

TITLE : IOT over Edge and Cloud Computing

DATE : 19 to 23 April, 2022

ATTENDED BY : Priyanka

ORGANIZED BY : Anand International College of Engineering, Jaipur

TITLE : Computer Vision and Image Processing

DATE : 31 January to 4 February, 2022

ATTENDED BY : Priyanka, Anjali Pandey

ORGANIZED BY : SKIT, Jaipur

TITLE : Artificial Intelligence & Machine Learning in Research on Engineering Science

DATE : 6 to 10 June, 2022

ATTENDED BY : Priyanka

ORGANIZED BY : SGVU, Jaipur

TITLE : Machine Learning and Deep Learning

DATE : 21 to 26 February, 2022

ATTENDED BY : Pankaj Dadheech

ORGANIZED BY : Department of Information Technology, Easwari Engineering College, Ramapuram, Chennai

TITLE : Machine Learning Applications for Autonomous Driving

DATE : 22 to 26, March, 2022.

ATTENDED BY : Sunita Gupta

ORGANIZED BY : SKIT, Jaipur

TITLE : Machine Learning Applications for Autonomous Driving

DATE : 24 to 28 January, 2022

ATTENDED BY : Nikhar Bhatnagar

ORGANIZED BY : KLE Technological University, Hubli, Karnataka

TITLE : Futuristic Trends in Modern Machine Learning & Data Analytics

DATE : 13 to 17 December, 2021

ATTENDED BY : Nikhar Bhatnagar

ORGANIZED BY : Lakshmi Narain College of Technology, Bhopal, Madhya Pradesh

TITLE : Research Applications in the field of Artificial Intelligence

DATE : 4 to 8 January, 2022

ATTENDED BY : Nikhar Bhatnagar, Priyanka Sharma

ORGANIZED BY : Departments of CSE & IT, SKIT, Jaipur

TITLE : Intellectual Property Rights

DATE : 18 to 22 January, 2022

ATTENDED BY : Nikhar Bhatnagar, Priyanka Sharma

ORGANIZED BY : IPR Cell & Department of Management Studies, SKIT, Jaipur

TITLE : Deep Learning and Computer Vision

DATE : 3 to 7 January, 2022.

ATTENDED BY : Priyanka

ORGANIZED BY : Manipal University, Jaipur

TITLE : Instructional Design for Online Course

DATE : 4 to 8 October, 2021.

ATTENDED BY : Priyanka

ORGANIZED BY : NITTTR, Chennai

TITLE : Explainable Artificial Intelligence and the Future

DATE : 20 to 24 December, 2021

ATTENDED BY : Rubal Deep Gill, Harpreet Singh Gill

ORGANIZED BY : Indian Institute of Information Technology, Kota

TITLE : Cyber Security

DATE : 3 to 7 January, 2022

ATTENDED BY : Rubal Deep Gill, Harpreet Singh Gill

ORGANIZED BY : Babasaheb Ambedkar Technological University, Lonere

TITLE : The Joy of Computing using Python

DATE : Jan to April, 2021

ATTENDED BY : Priyanka Sharma

ORGANIZED BY : NPTEL

TITLE : Artificial Intelligence

DATE : 23 to 28 August, 2021

ATTENDED BY : Priyanka Sharma, Harpreet Singh Gill, Rubal Deep Gill

ORGANIZED BY : MSME Technology Development Centre,
Meerut (ATAL Academy)

TITLE : IOT, Artificial Intelligence and Data Science

DATE : 18 to 28 August, 2021

ATTENDED BY : Priyanka Sharma, Priyanka, Pankaj
Dadheech, Nikhar Bhatnagar

ORGANIZED BY : Easwari Engineering College, Ramapuram,
Chennai

TITLE : Artificial Intelligence Integrated Web
Services

DATE : 25 to 29 May, 2021

ATTENDED BY : Priyanka Sharma

ORGANIZED BY : Easwari Engineering College, Ramapuram,
Chennai

TITLE : Cyber Security Vulnerabilities & Safeguards

DATE : 17 to 21 May, 2021

ATTENDED BY : Priyanka Sharma, Nidhi Srivastava

ORGANIZED BY : NITTTR, Chandigarh (ATAL Academy)

TITLE : Machine Learning & Deep Learning

DATE : 10 to 21 May, 2021

ATTENDED BY : Priyanka Sharma

ORGANIZED BY : Easwari Engineering College, Ramapuram,
Chennai

TITLE : Outcome-Based Education: A Paradigm for
Assessment & Accreditation

DATE : 24 to 28 August, 2021

ATTENDED BY : Anjana Sangwan, Dr. Nilam Choudhary,
Naveen Jain, Dr. Sunita Gupta

ORGANIZED BY : SKIT, Jaipur

TITLE : Data Science with Statistical Methods using
R Programming- Basic Course

DATE : 21 to 25 June, 2021

ATTENDED BY : Anjana Sangwan, Rashmi Dadhich

ORGANIZED BY : Amity University, Lucknow

TITLE : Block Chain Technology

DATE : 23 to 27 August, 2021

ATTENDED BY : Priyanka

ORGANIZED BY : Government College of Engineering,
Dharmapuri

TITLE : Cryptocurrency and Blockchain Technology

DATE : 30 August to 3 September, 2021

ATTENDED BY : Priyanka, Nikhar Bhatnagar

ORGANIZED BY : Punjab Engineering College

TITLE : Advance Research Methodology and Writing
of High-Quality Research Paper

DATE : 24 to 28 August, 2021

ATTENDED BY : Nidhi Srivastav, Priyanka, Palika Jajoo

ORGANIZED BY : SKIT, Jaipur

TITLE : Foundation of Data Science & its Applications,

DATE : 26 to 30 July, 2021

ATTENDED BY : Nidhi Srivastav, Sunita Gupta

ORGANIZED BY : Indira Gandhi Delhi Technical University for
Women.

TITLE : AI & Machine Learning

DATE : 19 to 23 April, 2021

ATTENDED BY : Deepa Modi, Shanu Tripathi, Sunita Gupta Dr.
Sunita Gupta

ORGANIZED BY : SKIT, Jaipur

TITLE : Multi-Technologies

DATE : 28 June to 3 July, 2021

ATTENDED BY : Harpreet Singh Gill, Rubal Deep Gill

ORGANIZED BY : Aarupadai Veedu Institute of Technology,
Chennai in collaboration with BRAIN O
VISION

TITLE : Advanced Excel with Data Visualization

DATE : 5 to 10 July, 2021

ATTENDED BY : Deepa Modi, Shanu Tripathi, Palika Jajoo

ORGANIZED BY : E & ICT Academy, IIT Kanpur (A Joint
Initiative of MeitY & IIT Kanpur)

TITLE : Research Trends in Computer Vision and
Natural Language Processing

DATE : 19 to 23 July, 2021

ATTENDED BY : Deepa Modi

ORGANIZED BY : The NorthCap University, Haryana

TITLE : Code of Conduct & Professional Ethics

DATE : 16 to 21 August, 2021

ATTENDED BY : Deepa Modi, Shanu Tripathi Rashmi

Dadheech, Naveen Jain, Sunita Gupta,
ORGANIZED BY : SKIT, Jaipur

TITLE : Data Science and Big Data Analytics

DATE : 30 August to 4 September, 2021

ATTENDED BY : Harpreet Singh Gill, Rubal Deep Gill

ORGANIZED BY : Indo Global College of Engineering, New
Chandigarh

TITLE : Societal Applications of AI, Blockchain, and
IoT

DATE : 1 to 5 September, 2021.

ATTENDED BY : Harpreet Singh Gill
ORGANIZED BY : Shri Vishnu Engineering College for Women(A)

TITLE : Emerging Trends in the Field of Artificial Intelligence and Machine Learning Applications
DATE : 20 to 24 October, 2021
ATTENDED BY : Deepa Modi
ORGANIZED BY : Institute of Engineering & Management

TITLE : Sensors Technology
DATE : 6 to 9 September, 2021
ATTENDED BY : Ms. Shanu Tripathi
ORGANIZED BY : University Institute of Engineering & Technology, Kurukshetra University, Kurukshetra.

TITLE : Recent Trends in Digital Image Processing
DATE : 7 to 11 June, 2021
ATTENDED BY : Rashmi Dadhich
ORGANIZED BY : PIET, Jaipur

TITLE : Inculcating Universal Human Values in Technical Education
DATE : 19 to 23 July, 2021 (One Week)
ATTENDED BY : Pankaj Dadheech
ORGANIZED BY : All India Council for Technical Education (AICTE), New Delhi, India

TITLE : Industrial Applications of Machine Learning and Artificial Intelligence
DATE : 6 September to 10 September, 2021
ATTENDED BY : Nikhar Bhatnagar
ORGANIZED BY : SKIT, Jaipur

TITLE : NBA Accreditation for Engineering Colleges
DATE : 4 to 8 October, 2021
ATTENDED BY : Nikhar Bhatnagar, Mehul Mahrishi
ORGANIZED BY : NITTTR, Kolkatta

TITLE : Artificial Intelligence and Machine Learning using Python
DATE : 21 June to 25 June, 2021
ATTENDED BY : SushilaVishnoi
ORGANISED BY : Engineering College Bikaner (by AICTE Training and Learning (ATAL) Academy)

TITLE : Data Science Using R
DATE : 13 to 17 September, 2021
ATTENDED BY : Anjali Pandey, Dr. Meenakshi Nawal
ORGANIZED BY : NITTTR, Chandigarh

TITLE : IoT Applications with Blockchain Techniques
DATE : 17 to 21 July, 2021
ATTENDED BY : Sunita Gupta
ORGANIZED BY : National Institute of Technology, Meghalaya

TITLE : Introduction to cad and its Application
DATE : 16 to 21 August, 2021
ATTENDED BY : Naveen Jain
ORGANIZED BY : SKIT, Jaipur

TITLE : Lecture Series on Recent Trends in Electronics & Communication Engineering
DATE : 20 to 24 August, 2021
ATTENDED BY : Naveen Jain
ORGANIZED BY : SKIT, Jaipur

STTPs ATTENDED

TITLE : Writing and Publishing of Quality Research Articles and Ethics of Research
DATE : 21 to 25 February, 2022
ATTENDED BY : Harpreet Singh Gill, Rubal Deep Gill, Anjali Pandey
ORGANIZED BY : SKIT, Jaipur

TITLE : Machine Learning and its Applications to Big Data
DATE : 9 to 14 May, 2022
ATTENDED BY : Priyanka, Priyanka Sharma, Harpreet Singh Gill, Rubal Deep Gill
ORGANIZED BY : Jodhpur Institute of Engineering & Technology

TITLE : Modelling and Simulation in Engineering Applications (MSEA-2022)
DATE : 22 to 26 March, 2022
ATTENDED BY : Shanu Tripathi
ORGANIZED BY : SKIT, Jaipur

TITLE : Data Science: A Game Changer for Science and Innovation
DATE : 31 January to 4 February, 2022
ATTENDED BY : Pankaj Dadheech
ORGANIZED BY : Amity University, Jaipur

TITLE : Artificial Intelligence
DATE : 4 to 8 October, 2021
ATTENDED BY : Priyanka Sharma, Priyanka
ORGANIZED BY : NITTTR, Kolkata

TITLE : NBA Accreditation for Engineering Colleges
DATE : 4 to 8 October, 2021

ATTENDED BY : Nikhar Bhatnagar, Mehul Mahrishi
ORGANIZED BY : NITTTR, Kolkata

TITLE : Design of Soft Computing based Machine Learning Models
DATE : 7 to 12 June, 2021
ATTENDED BY : Priyanka Sharma
ORGANIZED BY : Panipat institute of Engineering & Technology, Panipat

TITLE : Mathematics Software
DATE : 13 to 17 September, 2021
ATTENDED BY : Nidhi Srivastav, Dr. Sunita Gupta
ORGANIZED BY : SKIT, Jaipur

TITLE : Recent Advances in Nano-Photonics Technology
DATE : 15 to 20 February, 2021
ATTENDED BY : Shanu Tripathi
ORGANIZED BY : SKIT, Jaipur

TITLE : Sensor Networks, Internet of Things and Internet of Everything
DATE : 31 May to 5 June, 2021
ATTENDED BY : Ms. Rashmi Dadhich
ORGANIZED BY : SKIT, Jaipur (AICTE – AQIS Sponsored)

WORKSHOPS ATTENDED

TITLE : Article Publication in Reputable Journals
DATE : 2 April, 2022
ATTENDED BY : Pankaj Dadheech
ORGANIZED BY : Mewar International University, Nigeria

TITLE : Intellectual Property Rights and Patent Filing Process
DATE : 21 to 29 October, 2021
ATTENDED BY : Nikhar Bhatnagar
ORGANIZED BY : IPR Cell, SKIT & COE-IP, CDAC, Pune

TITLE : Train the Trainer Programme on Java Programming
DATE : 6 to 13 September, 2021
ATTENDED BY : Nidhi Srivastav, Sunita Gupta, Kajal Mathur
ORGANIZED BY : Infosys, Campus Connect

TITLE : NAAC and Academics
DATE : 14 July, 2021
ATTENDED BY : Pankaj Dadheech
ORGANIZED BY : C.S. Bembalagi Arts, Sha.M.R. Palaresha Science & G.L.Rathi Commerce Degree College, Ramdurg.

TITLE : Covid care Workshop
DATE : 19 to 21 July, 2021
ATTENDED BY : Naveen Jain
ORGANIZED BY : SKIT, Jaipur

SEMINARS / WEBINARS ATTENDED

TITLE : Game-a-than 2022
DATE : 4 to 5 March
ATTENDED BY : Naveen Jain
ORGANIZED BY : SRM Easwari Engineering College Chennai

TITLE : Intellectual Property Rights and Innovation
DATE : 19 August, 2021
ATTENDED BY : Deepa Modi, Shanu Tripathi, Pankaj Dadheech
ORGANIZED BY : SKIT, Jaipur

TITLE : Advanced Knowledge and Rural Technology Implementation Technologies
DATE : 4 September, 2021
ATTENDED BY : Deepa Modi, Shanu Tripathi
ORGANIZED BY : BARC, Mumbai & Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

TITLE : International Day of Light
DATE : 15 May, 2021
ATTENDED BY : Shanu Tripathi
ORGANIZED BY : OSA, IEEE Sensor Council Student Chapter, MNIT, & OSA Student Chapter, SKIT, Jaipur

TITLE : Explainable AI in Industry
DATE : 5 to 9 July, 2021
ATTENDED BY : Rubal Deep Gill, Harpreet Singh Gill
ORGANIZED BY : Vidyavardhaka College of Engineering, Mysuru

TITLE : Transition from Single Use Plastic to Alternate Material & Technology
DATE : 9 October, 2021
ATTENDED BY : Priyanka Sharma, Nikhar Bhatnagar
ORGANIZED BY : SKIT, Jaipur

TITLE : National Intellectual Property Awareness Mission
DATE : 24 December, 2021
ATTENDED BY : Priyanka Sharma
ORGANIZED BY : IPR Cell, SKIT Jaipur

**Education is the most powerful weapon
which you can use to change the world.**

COURSES MENTORED

MENTOR/S : COURSE/S

Pankaj Dadheech : Cloud Computing and Distributed Systems
Nikhil Bhatnagar, Database Management System
Anjali Pandey
Nikhil Bhatnagar : Computer Networks and Internet Protocol
Nikhil Bhatnagar, Database Management System
Priyanka
Priyanka : Operating System Fundamental
Priyanka Sharma, : Python Basics
Nidhi Srivastava,
Ashish Pant
Priyanka Bhardwaj, : Software Security
Harpreet Singh Gill
Deepa Modi : Programming in Java
Shanu Tripathi : Emotional Intelligence
Rashmi Dadheech : AI for Everyone: Master the Basics
Rashmi Dadheech : Computer Graphics

COURSE/ TOPIC : The Joy of Computing using Python
COMPLETED BY : Priyanka Sharma
DURATION & CATEGORY : January to April, 2021 (12 week).
Awarde Elite Certificate

COURSE/ TOPIC : Emotional Intelligence
COMPLETED BY : Shanu Tripathi
DURATION & CATEGORY : January to March, 2021 (8- week).
Awarded Elite Certificate

COURSE/ TOPIC : Introduction to Big Data
COMPLETED BY : Palika Jajoo
DURATION & CATEGORY : September, 2021 (3- week).
Successfully completed

COURSE/ TOPIC : Introduction to Automata,
Languages and Computation
COMPLETED BY : Palika Jajoo
DURATION & CATEGORY : January to April, 2021 (12 -week).
Awarded Gold Certificate

NPTEL / mooKIT / IITBX / SWAYAM COURSES

COMPLETED

COURSE/ TOPIC : Problem Solving through
Programming in C

COMPLETED BY : Naveen Jain
DURATION & CATEGORY : 12 -week, Elite + Silver

COURSE/ TOPIC : Programing in java
COMPLETED BY : Naveen Jain
DURATION & CATEGORY : 12- week, Elite + Gold (1% Topper)

COURSE/ TOPIC : Problem Solving through
Programming in C

COMPLETED BY : Naveen Jain
DURATION & CATEGORY : 12 -week, Elite + Silver

COURSE/ TOPIC : Programing in java
COMPLETED BY : Naveen Jain
DURATION & CATEGORY : 12- week, Elite + Gold (1% Topper)

COURSE/ TOPIC : An Introduction to Artificial
Intelligence
COMPLETED BY : Dolly Mittal
DURATION & CATEGORY : January to April, 2022 (12
week). Awarded Elite Certificate
(Topper)

COURSE/ TOPIC : The Joy of Computing using
PAYTHON
COMPLETED BY : Shalini Singhal
DURATION & CATEGORY : January to April, 2022 (12 week).
Awarded Elite Certificate

COURSE/ TOPIC : Python Basics
COMPLETED BY : Priyanka Sharma, Nidhi Srivastava,
Ashish Pant
DURATION & CATEGORY : 4 -week

COURSE/ TOPIC : Neural Network & Deep Learning
COMPLETED BY : Nidhi Srivastav
DURATION & CATEGORY : 4- week

COURSE/ TOPIC : Software Security
COMPLETED BY : Priyanka, Harpreet Singh Gill
DURATION & CATEGORY : 6 -week

COURSE/ TOPIC : Symmetric Cryptography
COMPLETED BY : Deepa Modi
DURATION & CATEGORY : 5- week

COURSE/ TOPIC : Interfacing with the Arduino
COMPLETED BY : Shanu Tripathi
DURATION & CATEGORY : 4 -week (Grade Achieved 100%)

COURSE/ TOPIC : Introduction to Data Science
COMPLETED BY : Deepa Modi
DURATION & CATEGORY : 6- week

COURSE/ TOPIC : Python Basics for Data Science
COMPLETED BY : Rubal Deep Gill, Harpreet Singh Gill
DURATION & CATEGORY : 5- week

COURSE/ TOPIC : AI for Everyone: Master the Basics
COMPLETED BY : Deepa Modi

DURATION & CATEGORY : 4- week
COURSE/ TOPIC : Programming Foundations with
JavaScript, HTML and CSS
COMPLETED BY : Richa Rawal
DURATION & CATEGORY : 4 -week (COURSERA)

SESSION ON : Recent Advancements in Science,
Engineering & Technology, and
Management (ICRASET-2021)”
CHAired BY : Pankaj Dadheech
DATE & VENUE : 1 to 2 September, 2021 at SKIT, Jaipur

SESSION CHAIRED

SESSION ON : Intelligent Systems and Computing
CHAired BY : Pankaj Dadheech
DATE & VENUE : 6 to 7 May, 2022. At International
Conference on Intelligent Systems and
Computing (ICISC 2022) organized by the
Department of Computer Engineering,
Poornima Institute of Engineering and
Technology, Jaipur.

SESSION ON : Technology & Entrepreneurship through
Innovation
CHAired BY : Pankaj Dadheech
DATE & VENUE : 3 to 5 March, 2022. At the International
Convention on Green Environment,
Technology & Entrepreneurship through
Innovation (ICGETEI-2022),
Amity University, Jaipur.

SESSION ON : Engineering Science and Technology
CHAired BY : Pankaj Dadheech
DATE & VENUE : 22 to 23 April, 2022. At the National
Conference on Engineering Science
and Technology (NCEST-2022),
Global Institute of Technology, Jaipur.

SESSION ON : Engineering, Social Sciences & Management:
Challenges, Issues and Opportunities
CHAired BY : Pankaj Dadheech
DATE & VENUE : 21 May, 2022. At the International
Conference on Engineering, Social
Sciences & Management: Challenges,
Issues and Opportunities (ICESM
2022), Sri Balaji College of Engineering &
Technology, Jaipur.

SESSION ON : Intelligent Systems & Computation
(ICISC 2021)
CHAired BY : Pankaj Dadheech
DATE & VENUE : 20 to 21 August, 2021 at Poornima
Institute of Engineering & Technology,
Jaipur

Ph.D. AWARDED

THESIS TITLE : Design and Analysis of Intelligent
Image Classification Methods
Ph.D. AWARDED TO : Sushila Vishnoi
SUPERVISED BY : Dr. Ajit Kumar Jain
INSTITUTE : Banasthali Vidyapith, Jaipur,
Rajasthan
YEAR : 18 October, 2021

M.TECH. SUPERVISED

DISSERTATION TOPIC : Hybrid Approach of Face Recognition
using gabor- dct Feature Extraction
Technique
NAME OF STUDENT : Richa Khyalia
GUIDED BY : Priyanka

EXPERT TALK DELIVERED

TITLE : Robotic Process Automation
DATE : 30 August, 2021
DELIVERED BY : Nilam Choudhary

PATENTS PUBLISHED

TITLE : IoT based Automated System for
Freeway Framework 3
NAME : Mukesh Kumar Gupta
PATENT FILED DATE : Application No. 202141039583;
1 September, 2021
PATENT PUBLISHED DATE : 10 September, 2021

TITLE : Bigdata for Secure Email Spam
Filtering
NAME : Pankaj Dadheech
PATENT FILED DATE : Application No. 202141032077;
16 July, 2021
PATENT PUBLISHED DATE : 13 August, 2021

TITLE : A Novel Solar Assisted
Defluoridation Device using
Langmuir Isotherm Model for
Fluoride Free Drinking Water

NAME : Pankaj Dadheech
PATENT FILED DATE : Application No. 202131026317;
14 June, 2021
PATENT PUBLISHED DATE : 9 July, 2021

PATENT GRANTED

TITLE : Digital Microscope USB Connector
NAME : Pankaj Dadheech
PATENT APPLICATION NO. : 344241-001, 2021, Class-16-06
Cbr Number: 203941
PATENT FILED DATE : 4 June, 2021
PATENT PUBLISHED DATE : 9 July, 2021

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TITLE : AI-Enabled Real-Time Sensing and
Decision-Making for IoT Systems
NAME : Pankaj Dadheech
REGISTRATION NO. : L-107783/2021
DIARY NUMBER : 15966/2021-CO/L
DATE OF APPLICATION : 14 July, 2021
DATE OF GRANT : 23 September, 2021



Naitik Mangal, 2nd Sem, CSE

*Everything that you
are is enough.*

DEPARTMENT OF

MECHANICAL ENGINEERING

STUDENT WORKSHOP ON 'INTRODUCTION TO PYTHON PROGRAMMING'

The Department of Mechanical Engineering in association with the e-Yantra Lab, SKIT and the IETE Student Chapter of SKIT, Jaipur organized a student workshop on 'Introduction to Python Programming' from 27 to 29 January, 2022. In the inaugural ceremony, Prof. Dheeraj Joshi, Head, Mechanical Engineering welcomed all the guests, speakers and participants. Dr. Achin Srivastav, workshop coordinator gave a brief introduction about the workshop. More than 200 students participated in the workshop from all over the country. Mr. Aryan Singh, CTO, TensaX Innovation Lab, Jaipur was the Chief-guest of the workshop. He discussed the prospects of Python Programming in enhancing the career of students. He also explained about the application part of Python Programming in Block Chain, Artificial Intelligence and Data Analytics. The other topics discussed in the workshop included Basics of Python and Importance & Application of Python. Hands on Sessions and Minor Projects on Python Programming were also provided to the students. The coordinators of the workshop were Dr. Manoj Kumar Sain, Dr. Achin Srivastav, Dr. Chandan Kumar, Mr. Praveen Saraswat, Mr. Ankit Agarwal, Mr. Ankit Vijay and Ms. Namita Soni.



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

The Department of Mechanical Engineering, SKIT, Jaipur organized an online expert talk of Mr. Suneel Kumar Tiwari (Ex.-Assistant Engineer, Prasar Bharti, Govt. of India) on 'Strategy to Crack GATE & other Competitive Exams' on 11 February, 2022. In this talk, the

expert explained the importance of GATE exam for engineering students. He gave some tips for effective preparation planning for GATE and other competitive examinations (i.e., IES, J.En., etc.). He said that self-made notes are very effective for quick revision. He also suggested that students should refer standard books for mastering the knowledge on any subject. He further deliberated on various career opportunities, productive utilization of COVID period for academics & competitive exams, do's & don'ts to become a topper, art of making effective notes, and strategy for facing recruitment process (Written Test/GD/Interview). The vote of thanks was given by Dr. Chandan Kumar.

EXPERT TALK ON 'AWARENESS ABOUT CAD/CAM SOFTWARE'

The Department of Mechanical Engineering, SKIT, Jaipur organized an online expert talk on 'Awareness about CAD/CAM Software'. Mr. Ravi Kr. Swami, Director, CADEMATE, Jaipur discussed the importance of Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM) for engineering students. He explained how the combination of the two terms CAD and CAM is used to describe the software and also talked about its application to design and manufacture prototypes, finished products, and product runs. He elaborated how CAD/CAM offers design through manufacturing and is most often used with a Computer Numerical Control (CNC) machine, which is a motorized, manoeuvrable tool that is controlled by a computer according to specific instructions. Typical areas of concern discussed were about High-Speed Machining, Multi-function Machining, 5 Axis Machining, Feature Recognition and Machining and Automation of Machining Processes. The vote of thanks was delivered by Dr Deepak Kumar, Assistant Professor, Mechanical Engineering Department, SKIT.



FDP ON 'INDUSTRIAL INTERNET OF THINGS' (IIOT)

AICTE ATAL sponsored five-day Faculty Development Programme was conducted from 7 to 11 June, 2021 in which 192 participants

participated from different parts of the country. There were 14 sessions conducted on various themes of IIoT by experts from IITs, NITs and RTU. The inaugural of this FDP started with the welcome address by Prof. Ramesh Kumar Pachar (Principal, SKIT). Dr. Dheeraj Joshi, Coordinator, FDP highlighted on the theme and various subthemes of the FDP. Prof. Asim Tewari, from IIT Bombay was the chief guest. He delivered a talk on "IoT & Artificial Intelligence: A Recipe for the Next Industrial Revolution" and discussed about latest products and research areas in the field of IoT and AI. Dr. Rajeev Agrawal from MNIT, Jaipur presented his expert talk on the "Industry 4.0- Introduction and Applications". He discussed a case study of steel industry in which industry 4.0 techniques were implemented. Dr. Prasenjit Chanak, IIT, BHU presented his talk on "IIoT Hardware and its Applications". Prof. M. L. Mittal from MNIT, Jaipur discussed different techniques used for the smart manufacturing. Dr. Monika Mittal, NIT, Kurukshetra shared her research experience on "Advances in Controllers". She discussed PID controller in detail. Mr. Ajay Godara, NITTTR, Chandigarh presented a practical session on "Interfacing of Sensors with Arduino Board".



Dr. Rajeev Agrawal, MNIT, Jaipur presented his research experiences on "Cyber Physical Systems". Dr. Vijaya Kumar Manupati, NIT, Warangal discussed the "Machine Learning Basis and Applications". A talk on "AI in Manufacturing-Scope and Application" was delivered by Dr. Om Ji Shukla from NIT, Patna. Thereafter, the discourse on "Role of Big Data in IIoT" was given by the distinguished expert, Dr. Aakanksha Sharaff, NIT Raipur. She explained the basics of Big Data analysis. A session on "Application of IoT in Indian Railways" was delivered by Mr. Gyanesh Tripathi, Chief Mechanical Engineer, DLW, Varanasi. Prof. S.C. Jain, RTU, Kota presented his talk on "Cloud Computing in IIoT". A talk on "Artificial Intelligence Enabled Design and Manufacturing of Advanced Stealth Structures" was delivered by Dr Ravi Panwar from IIIT, Jabalpur. Krishna Pad Das delivered his motivational talk on "Stress Management: Power of Positivity". Dr. Dheeraj Joshi proposed vote of thanks to all the dignitaries and participants.

“Success consists of going from failure to failure without loss of enthusiasm.”

FDP ON 'ROBOTICS AND MECHATRONICS IN MANUFACTURING' (RAMM-2021)

A 5-day Faculty Development Program on "Robotics and Mechatronics in Manufacturing" was organized by the Department of Mechanical Engineering, SKIT, Jaipur on 15 November, 2021. The chief guest of the program was Professor Vijay Kumar Gupta, Head of Department, Mechanical Engineering, IIITDM, Jabalpur. Prof. Gupta discussed the Applications of Robotics and Mechatronics in Manufacturing to develop products, processes and systems with greater flexibility, ease of redesign and reprogramming capability.

FDP was designed to introduce the Applications of Mechatronics and Robotics in Manufacturing as an integral part of Industry 4.0. On this occasion, Professor R.K. Jain, Dean, SKIT welcomed the chief guest and other participants. Dr. Ekta Singla from IIT, Ropar explained the journey of robots during the last decade. Thereafter, Dr. Gunjan Soni, MNIT, Jaipur explained the Applications of AI, IOT Robotics in various sectors of Manufacturing – inspection, MRP, production planning, material handling, supply chain, maintenance planning and Industry 4.0 and beyond. Dr. Omji Shukla, NIT, Patna discussed Applications of Agent based Systems in Manufacturing Solutions such as production floor planning, maintenance planning etc. Dr. C. K. Nirala, IIT, Ropar; Dr. Rakesh Kumar, MNIT, Jaipur; Prof. Shahbaj Ahmed Sidqqi, Manipal University, Jaipur and Prof. Md. Suhaib, Jamiya Miliya Islamiya Univeristy addressed various aspects of Robotics and AI in Manufacturing to cater the advanced requirements of Industry 4.0. The conveners of the event were Mr. Vinay Singh Marwal, Sudesh Garg and Dr. Prem Singh.

FDP ON 'ADVANCED RESEARCH METHODOLOGY AND HOW TO WRITE QUALITY RESEARCH PAPERS'

A five- day Faculty Development Programme on "Advanced Research Methodology and How to Write Quality Research Papers" was organized by the Department of Management Studies and the Department of Mechanical Engineering (under the aegis of IQAC, SKIT Jaipur), Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur from 24 to 28 August, 2021. Chief Guest, Prof. R.S. Meena (Dean, Research, RTU, Kota), Prof. R K. Pachar (Principal, SKIT, Jaipur), Prof. S.K. Mathur (Head,



Department of Management Studies, SKIT), Prof. Dheeraj Joshi, (Head, Department of Mechanical Engineering, SKIT), Prof. Ashish Nayyar (Professor, Mechanical Engineering) and Dr. Savita Choudhary (Organizing Secretary of the FDP) were present during the inaugural session of this FDP. Prof. Pachar welcomed the delegates and participants. Prof. S.K. Mathur talked on the objectives and expected outcomes of the FDP. Prof. R.S. Meena discussed the need of quality research. Dr. Amit Bhati (Synergie), Dr. Prashant Sharma, Dr. Ram Komal Prasad and Prof. Surya Prakash Singh delivered sessions to cover different aspects of Advanced Research Methodology. Prof. Singh highlighted relevance of Quality Research during the valedictory programme and encouraged the participants to keep learning research methodology techniques and doing quality research. The valedictory function ended with a vote of thanks by Prof. Ashish Nayyar. A total of 358 participants were benefitted by this FDP out of which 58 participants were from SKIT, 298 participants from other institutions of India and 02 participants were from outside India. Dr. Achin Srivastav and Dr. Priyanka Bhaskar were the coordinators of this FDP.

STAFF TRAINING PROGRAMME FOR LABORATORIES

A Staff Training Programme was organized by the Department of Mechanical Engineering, SKIT, Jaipur to train the staff in the working of the laboratory equipment and to enhance their capability of explaining about the laboratories and their equipment to the visitors during department visit from 12 to 28 July, 2021. Dr. Ashish Nayyar and Ms. Monika Khurana were the coordinators of the event. The STP was scheduled into 15 sessions.



BOOK CHAPTERS PUBLISHED

- BOOK : Methanol
- AUTHOR/S : Chandan Kumar, Kunj Bihari Rana, Brajesh Tripathi
- BOOK CHAPTER : Combustion, Performance and Emission Analysis of Diesel-Methanol Fuel Blend in

PUBLISHER : CI Engine, pp-229-246, 2021
: Springer, Singapore

BOOK : Advanced Materials and Manufacturing Processes

AUTHOR/S : M.J. Pawar, Amar Patnaik, Vikas Kukshal, Ashiwani Kumar, Vikash Gautam

BOOK CHAPTER : Modal Analysis of a Wind Turbine Blade Using a Computational Method

PUBLISHER : CRC Press and Taylor and Francis Group

BOOK : Advanced Materials and Manufacturing Processes

AUTHOR/S : Ashiwani Kumar, Amar Patnaik, Mukesh Kumar, Vikas Kukshal, M.J. Pawar, Vikash Gautam

BOOK CHAPTER : Analysis of Mechanical and Sliding Wear Performance of AA6061–SiC/Gr/MD Hybrid Alloy Composite Using a PSI Approach for Rotor Applications

PUBLISHER : CRC Press and Taylor and Francis Group

BOOK : Advanced Materials and Manufacturing Processes

AUTHOR/S : Vikash Gautam, M.J. Pawar, Amar Patnaik, Vikas Kukshal, Ashiwani Kumar

BOOK CHAPTER : Microstructural and Tribological Behavior of 5083-TiB₂ Cast Composites Fabricated by a Flux-Assisted Synthesis Technique

PUBLISHER : CRC Press and Taylor and Francis Group

PAPERS PRESENTED IN CONFERENCES

TITLE : Study of Working Parameters which affect the Performance of Earth Air Heat Exchanger

AUTHOR/S : Madhukar Kumar, Chandra Mohan Kumar, Amit Kumar Bansal

CONFERENCE : INCRTE 2022, 16 to 17 March, 2022

TITLE : Use of Industrial Internet of Things (IIOT) in Industry 4.0 - A Survey

AUTHOR/S : Madhukar Kumar, Amit Kumar Bansal

CONFERENCE : INCRTE 2022, 16 to 17 March, 2022

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 1600 and 2000

AUTHOR/S : Madhukar Kumar, Manoj Kumar, Amit Kumar Bansal

CONFERENCE : INCRTE 2022, 16 to 17 March, 2022

TITLE : An Experimental Analysis of Tensile Strength of Component in Fused Deposition Modelling Process

AUTHOR/S : Naveen Kumar Sain

CONFERENCE : International Conference on Intelligent Engineering and Management (ICIEM-2021), Amity University, Jaipur.

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE : Analyzing the Effects of Industrial Protective Glove's Material on Hand Grip Strength

AUTHOR/S : Manoj Kumar Sain

PROCEEDING : Proceedings of 3rd International Conference on Recent Innovations & Technological Development in Mechanical Engineering (ICRITDME-2020), ISBN(Print) 978-981-16-9235-2, ISBN (Online) 978-981-16-9236-9

TITLE : Slurry Abrasion Wear Assessment of Hybrid Reinforced Polymer Composite using Comparative Taguchi Gray Relational Analysis

AUTHOR/S : Achin Srivastav, Prem Singh, Nidhi Srivastav, Deepak Kumar, Sunil Agrawal

PROCEEDING : Proceedings of International Conference on Recent Advances in Manufacturing (RAM 2021), ISBN (Print) 978-981-16-9951-1, ISBN (Online) 978-981-16-9952-8

TITLE : Inventory Management of Residential Solar Panels

AUTHOR/S : Achin Srivastav, Prem Singh, Nidhi Srivastav, Deepak Kumar, Sunil Agrawal

PROCEEDING : Proceedings of 3rd International Conference on New and Renewable Energy Resources for Sustainable Future, Feb 11 to 13, 2021, ICONRER-2021

TITLE : Scenario of Cooling Systems Powered by Solar Energy in India

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

PROCEEDING : Proceedings of 3rd International Conference

on New and Renewable Energy Resources for Sustainable Future, Feb 11 to 13, 2021, ICONRER-2021

- TITLE** : A Review on Performance Enhancement Methods for Solar Stills
- AUTHOR/S** : Manoj Kumar Sain , Praveen Saraswat , Dheeraj Joshi
- PROCEEDING** : Proceedings of 3rd International Conference on New and Renewable Energy Resources for Sustainable Future, Feb 11 to 13, 2021, ICONRER-2021
- TITLE** : Comparison of Mechanical Behaviour of Pp Composites Fabricated by Plastic Injection Moulding
- AUTHOR/S** : Deepak Kumar, Achin Srivastav Vikash Gautam
- PROCEEDING** : Proceedings of 3rd International Conference on New and Renewable Energy Resources for Sustainable Future, Feb 11 to 13, 2021, ICONRER-2021
- TITLE** : Design And Simulation of 3D Printed Hovercraft as a Resupply Vehicle with Cfd
- AUTHOR/S** : Arun Beniwal, Yogesh Kumar Sharma, Vishnu Jangid, Sanjay Bairwa
- PROCEEDING** : Proceedings of 3rd International Conference on New and Renewable Energy Resources for Sustainable Future, Feb 11 to 13, 2021, ICONRER-2021
- TITLE** : Fabrication And Testing of Banana Fibre Reinforcement Polymer Composites
- AUTHOR/S** : Yogesh Kumar Sharma, Vishnu Jangid, Sanjay Bairwa, Arun Beniwal
- PROCEEDING** : Proceedings of 3rd International Conference on New and Renewable Energy Resources for Sustainable Future, Feb 11 to 13, 2021, ICONRER-2021
- TITLE** : Selection of Optimum Parameters for Electro-Chemical Machining (ECM) using Genetic Algorithm
- AUTHOR/S** : Prem Singh, Trivendra Kumar Sharma, Achin Srivastav
- PROCEEDING** : Proceedings of 3rd International Conference on New and Renewable Energy Resources for Sustainable Future, Feb 11 to 13, 2021, ICONRER-2021

FDPs ATTENDED

- TITLE** : SCILAB and XCOS – FOSS Alternatives for MATLAB and SIMULINK
- DATE** : 7 to 11 February, 2022
- ATTENDED BY** : Arun Beniwal
- ORGANIZED BY** : CMR institute of Technology, Bengaluru
- TITLE** : Smart Use of Renewable Energy Resources for Sustainable Future
- DATE** : 21 to 25 February, 2022
- ATTENDED BY** : Arun Beniwal, Chandan Kumar, Chandra Mohan Kumar, Manu Augustine, Naveen Kumar Sain, Nitin Goyal, Praveen Saraswat, Raj Kumar, Sandeep Kumar Bhaskar, Sanjay Choudhary, Saurabh Gupta, Sumita Hemron, Trivendra Kumar Sharma,
- ORGANIZED BY** : Department of Mechanical Engineering, SKIT, Jaipur
- TITLE** : Carbon Balance and Environmental Sustainability
- DATE** : 7 to 11 February, 2022
- ATTENDED BY** : Chandra Mohan Kumar
- ORGANIZED BY** : BMS College of Engineering, Bengaluru.
- TITLE** : Emerging Trends in Science and Engineering
- DATE** : 14 to 18 February, 2022
- ATTENDED BY** : Chandra Mohan Kumar
- ORGANIZED BY** : Regional college, Jaipur
- TITLE** : Modelling and Simulation in Engineering Applications (MSEA-2022)
- DATE** : 22 to 26 March, 2022
- ATTENDED BY** : Manoj kumar
- ORGANIZED BY** : Department of Electrical Engineering, SKIT, Jaipur
- TITLE** : Role of Carbon Capture and Storage in reducing GHG Emission
- DATE** : 30 March, 2022
- ATTENDED BY** : Trivendra Kumar Sharma
- ORGANIZED BY** : Department of Mechanical Engineering, KITE, Jaipur
- TITLE** : Manufacturing and Processing of Advanced Metallic, Ceramic and Composite Materials
- DATE** : 14 to 18 March, 2022
- ATTENDED BY** : Vikash Gautam
- ORGANIZED BY** : MNIT, Jaipur

TITLE : Research Applications in the Field of Artificial Intelligence
DATE : 4 to 8 January, 2022
ATTENDED BY : Arun Beniwal, Chandan Kumar, Monu Gupta, Deepak Kumar, Sanjay Bairwa, Prem Singh
ORGANIZED BY : Department of CSE & IT, SKIT, Jaipur

TITLE : Recent Trends of Robotics and Automation
DATE : 5 to 11 January, 2022
ATTENDED BY : Arun Beniwal, Sudesh Garg
ORGANIZED BY : Department of Electronics and Communication Engineering, SKIT, Jaipur

TITLE : Excellence in Higher Education: Perspective of NEP
DATE : 18 to 22 December, 2021
ATTENDED BY : Arun Beniwal, Dinesh Kumar Sharma, Manoj Kumar Sain, Praveen Saraswat, Vikash Gautam
ORGANIZED BY : Bhartiya Vidya Bhavan's Sardar Patel College of Engineering and FELA in collaboration with SAE India Western Section and IIIE SPCE Student Chapter under IQAC SPCE

TITLE : Effective Teaching and Research Skill in Science and Engineering
DATE : 6 to 10 December, 2021
ATTENDED BY : Raj Kumar
ORGANIZED BY : Department of Mechanical Engineering, RCERT, Jaipur

TITLE : Innovation in Materials for Advancements in Mechanical Industries
DATE : 17 to 21 January, 2022
ATTENDED BY : Sunil Kumar, Amit Kumar Bansal
ORGANIZED BY : Department of Mechanical Engineering, AICE, Jaipur

TITLE : Wearable Robotics Design, Sensing and Support
DATE : 24 to 28 December, 2021
ATTENDED BY : Vinay Singh Marwal
ORGANIZED BY : Indian Institute of Information Technology, Kota

TITLE : Intellectual Property Rights
DATE : 18 to 22 January, 2022
ATTENDED BY : Amit Kumar Bansal, Arun Beniwal
ORGANIZED BY : IPR Cell & Department of Management Studies, SKIT, Jaipur

TITLE : SCILAB and XCOS – FOSS Alternatives for MATLAB and SIMULINK

DATE : 7 to 11 February, 2022
ATTENDED BY : Arun Beniwal
ORGANIZED BY : CMR Institute of Technology, Bengaluru

TITLE : 3D Printing Technology
DATE : 12 to 16 July, 2021
ATTENDED BY : Achin Srivastav, Prem Singh
ORGANIZED BY : Govt. Engineering College, Jhalawar

TITLE : Recent Trends in Mechanical Engineering
DATE : 20 to 24 July, 2021
ATTENDED BY : Achin Srivastav, Amit Kumar Bansal, Arun Beniwal, Ashish Nayyar, Deepak Kumar, Dharmendra Hariyani, Madhukar Kumar, Manoj Kumar, Manoj Kumar Sain, Sunil Kumar, Yogesh Kumar Sharma
ORGANIZED BY : RTU (ATU) TEQIP III & SKIT, Jaipur

TITLE : Introduction to Discrete-Event Modelling and Simulation
DATE : 26 to 30 July, 2021
ATTENDED BY : Achin Srivastav
ORGANIZED BY : Visvesvaraya National Institute of Technology, Nagpur

TITLE : Code of Conduct & Professional Ethics
DATE : 16 to 21 August, 2021
ATTENDED BY : Achin Srivastav, Chandan Kumar, Dharmendra Hariyani, Madhukar Kumar, Manoj Kumar, Nitin Goyal, Prem Singh, Sandeep Kumar Bhaskar, Sanjay Choudhary, Sudesh Garg, Sunil Kumar, Trivendra Kumar Sharma, Yogesh Kumar Sharma
ORGANIZED BY : UHV & EC, SKIT, Jaipur

TITLE : Outcome-Based Education: A Paradigm for Assessment & Accreditation
DATE : 24 to 28 August, 2021
ATTENDED BY : Amit Kumar Bansal, Dheeraj Joshi, Sudesh Garg, Madhukar Kumar, Chandra Mohan Kumar
ORGANIZED BY : SKIT, Jaipur

TITLE : Outcome-Based Education
DATE : 26 to 30 July, 2021
ATTENDED BY : Vishnu Jangid
ORGANIZED BY : Engineering College, Bikaner

TITLE : Thermodynamic Analyses of Energy Systems

DATE : 12 to 16 July, 2021
ATTENDED BY : Arun Beniwal
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy

TITLE : Simulation of Welds and Optimization
DATE : 12 to 16 July, 2021
ATTENDED BY : Brij Mohan Sharma
ORGANIZED BY : AICTE Training & Learning (ATAL) Academy

TITLE : Finite Element Method with Applications
DATE : 17 to 21 August, 2021
ATTENDED BY : Brij Mohan Sharma
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy

TITLE : Recent Trends in Electric Vehicles
DATE : 5 to 9 July, 2021
ATTENDED BY : Chandan Kumar
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy

TITLE : Inculcating Universal Human Values in Technical Education
DATE : 19 to 23 July, 2021
ATTENDED BY : Chandan Kumar, Monu Gupta, Namita Soni, Nikhil Sharma, Vikash Gautam
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy

TITLE : Green Technology & Sustainability Engineering
DATE : 23 to 27 August, 2021
ATTENDED BY : Chandra Mohan Kumar
ORGANIZED BY : Bharati Vidyapeeth College of Engineering, Navi Mumbai & ATAL

TITLE : Manufacturing: Hindsight to Foresight
DATE : 16 to 20 July, 2021
ATTENDED BY : Dheeraj Joshi
ORGANIZED BY : BITS, Pilani

TITLE : Artificial Intelligence in Design and Manufacturing
DATE : 26 to 30 July, 2021
ATTENDED BY : Dheeraj Joshi
ORGANIZED BY : Shri G.S. Institute of Technology & Science, Indore

TITLE : a2z of NBA Accreditation Process
DATE : 24 August to 9 September, 2021

ATTENDED BY : Madhukar Kumar
ORGANIZED BY : Inderprastha Engineering College, Ghaziabad

TITLE : Industrial Automation using CNC and Intelligent Systems
DATE : 16 to 20 August, 2021
ATTENDED BY : Manoj Kumar Sain, Praveen Saraswat
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy

TITLE : Green Technology: Applications in Manufacturing
DATE : 20 to 24 September, 2021
ATTENDED BY : Manoj Kumar Sain
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy & NIT Patna

TITLE : Smart Materials for Energy and Environment An Experimental and Theoretical Perspectives
DATE : 26 to 30 July, 2021
ATTENDED BY : Monu Gupta
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy

TITLE : Advancement in Material Processing Technologies
DATE : 9 to 13 August, 2021
ATTENDED BY : Monu Gupta
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy

TITLE : Life Skill Development of Educators Through Inner Transformation by Art of Living
DATE : 16 to 20 August, 2021
ATTENDED BY : Monu Gupta, Yogesh Kumar Sharma
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy

TITLE : Green Modern Innovations and Development in Renewable Energy Technology
DATE : 12 to 16 July, 2021
ATTENDED BY : Naveen Kumar Sain
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy & University of Lucknow

TITLE : Internet of Things (Applications in Medical Science)
DATE : 9 to 13 August, 2021
ATTENDED BY : Naveen Kumar Sain
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy & Women Engineering College, Ajmer

TITLE : Global Navigation Satellite Systems
DATE : 26 to 30 July, 2021
ATTENDED BY : Nitin Goyal
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy

TITLE : Alternative fuels for IC Engine
DATE : 2 to 6 August, 2021
ATTENDED BY : Nitin Goyal
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy

TITLE : Desalination by using Green Technology
DATE : 9 to 13 August, 2021
ATTENDED BY : Nitin Goyal
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy

TITLE : Recent Advances in Mechanical
Engineering Design
DATE : 20 to 24 July, 2021
ATTENDED BY : Prem Singh
ORGANIZED BY : Bharati Vidyapeeth College of
Engineering, Pune

TITLE : Techno-Economic Assessment of
Flexibility Competency in Deregulated
Power System
DATE : 20 to 24 September, 2021
ATTENDED BY : Sanjay Choudhary
ORGANIZED BY : SKIT, Jaipur

TITLE : Internet of Things: Product Design,
Development and Implementation
DATE : 2 to 6 August, 2021
ATTENDED BY : Sudesh Garg
ORGANIZED BY : Shri Sant Gajanan Maharaj College of
Engineering, Shegaon.

TITLE : Manufacturing Application of Automation
and Robotics
DATE : 26 to 30 July, 2021
ATTENDED BY : Sunil Kumar
ORGANIZED BY : Graphic Era University, Dehradun

TITLE : Novel Prospective of Smart Materials,
Hybrid Machining & Additive Manufacturing
DATE : 26 July, 2021 to 10 August, 2021
ATTENDED BY : Trivendra Kumar Sharma
ORGANIZED BY : IPEC, Ghaziabad

TITLE : Sustainable Green Composites: Design,
Manufacturing and Characterization

DATE : 9 to 13 August, 2021
ATTENDED BY : Vikash Gautam
ORGANIZED BY : AICTE Training & Learning (ATAL) Academy

TITLE : Non- Destructive Testing and Evaluation
DATE : 26 to 30 July, 2021
ATTENDED BY : Vikash Gautam
ORGANIZED BY : NIT, Srinagar

TITLE : Futuristic Trends in Energy, Material and
Manufacturing Technology
DATE : 2 to 6 August, 2021
ATTENDED BY : Vinay Singh Marwal
ORGANIZED BY : Hindustan College of Engineering

TITLE : Green Technology in Manufacturing
DATE : 5 to 9 July, 2021
ATTENDED BY : Vishnu Jangid
ORGANIZED BY : Punjab Engineering College

TITLE : Lean Thinking for Sustainable business
practices
DATE : 16 to 20 August, 2021
ATTENDED BY : Vishnu Jangid
ORGANIZED BY : SRM Institute

TITLE : Innovations and Challenges in Industry
4.0 Automation and smart manufacturing
DATE : 9 to 14 August, 2021
ATTENDED BY : Yogesh Kumar Sharma
ORGANIZED BY : Kallam Haranadhareddy Institute of
Technology, Guntur

WORKSHOPS ATTENDED

TITLE : Advanced Technology for Materials Physics and
Engineering
DATE : 20 to 26 January, 2022
ATTENDED BY : Deepak Kumar
ORGANIZED BY : IIT, Indore

TITLE : Materials Fabrication & Characterization
Techniques
DATE : 24 to 28 January, 2022
ATTENDED BY : Amit Kumar Bansal
ORGANIZED BY : Department of Physics, SKIT, Jaipur

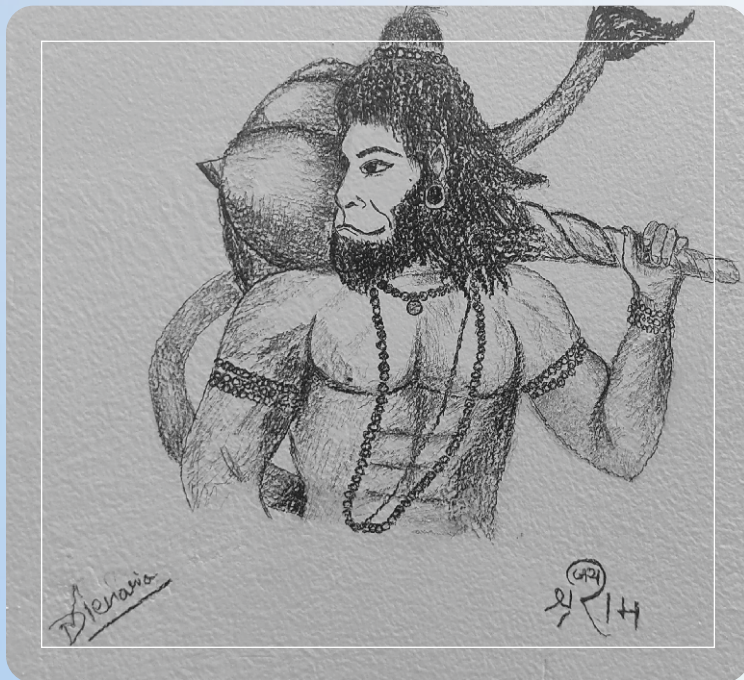
TITLE : AICTE-Examination Reforms
DATE : 13 to 15 December, 2021
ATTENDED BY : Dinesh Kumar Sharma, Naveen Kumar Sain
ORGANIZED BY : Faculty Development Cell (AICTE) and NITTR,
Chennai

WEBINAR ATTENDED

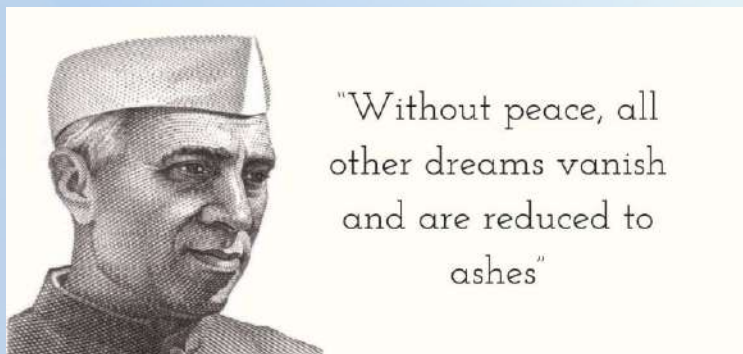
TITLE : National Intellectual Property Awareness Mission
DATE : 24 December, 2021
ATTENDED BY : Ajay Kumar Dhanopia
ORGANIZED BY : IPR Cell, SKIT, Jaipur

EXPERT TALK DELIVERED

TITLE : Introduction of Factor Analysis, EFA and CFA
DATE&VENUE : 24 to 28 August, 2021. At SKIT, Jaipur
DELIVERED BY : Deepak Kumar



Dileep Menaria, 8th Sem, ME



DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

ALUMNI INTERACTION SESSION ON 'CAREER OPPORTUNITIES IN CYBER SECURITY' ORGANIZED

Alumni Interaction Program on 'Career Opportunity in Cyber Security' was organized by IE Students Chapter of the Department of Electronics and Communication, SKIT and the Institution of Engineers (India) at Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur on 15 January, 2022. The guest of the event was Shri Nikhil Agarwal, Senior Solution Architect, Fortanix Inc. The program began with a welcome address by Prof. Mukesh Arora, Head, Department of Electronics and Communication, SKIT, Jaipur. Dr. Swati Arora introduced the students about the achievements of the Student Chapter of the Institution of Engineers (India). The expert of the session Mr. Nikhil Agarwal, an alumni of the college addressed the gathering, He shared his experiences from his college days and discussed about his entire journey in the field of cyber security. He told how from the time of college he did not give up his stubbornness of making his dreams come true and always made good use of his time. He emphasized on the use of technical knowledge, smart work, and work ethics. Students also interacted with the alumni by asking some questions and seeking clarifications regarding their doubts. The coordinators of this program were Dr. Swati Arora, Ms. Manju Choudhary and Ms. Pooja Choudhary. At the end of the event, Ms. Manju Choudhary presented the vote of thanks to all the participants and the guests.



INTERACTIVE SESSION ON 'AWARENESS ABOUT IEEE SOCIETY' AND 'DESIGN AND DEVELOPMENT OF FLEXIBLE AND WEARABLE ANTENNA' ORGANIZED

IEEE-MTT Student Chapter of the Department of Electronics & Communication Engineering, SKIT, Jaipur organized an interactive session on 'Awareness of IEEE Society' and 'Design and Development of Flexible and Wearable Antenna' on 10 February, 2022. The guest for the session was Dr. Dinesh Yadav, Associate Prof., Manipal University, Jaipur.

The interactive session began with a brief introduction about the IEEE-MTT Student Chapter of the college by Dr. Shubhi Jain. Dr. Praveen Kumar Jain welcomed the guests with humble words. In this interactive session, Dr. Dinesh Yadav told the students about the immense contribution that IETE & IEEE chapters can make to the academic careers of students, and how IEEE can help students in the field research. He further briefed the students about 'Flexible and Wearable Antenna', and how these are designed and developed. He also discussed about the medical application of Wearable Antennas like treatment and diagnosis, and the prescribed frequency and conductive material for the medical purpose. The interactive session was concluded by the vote of thanks by Mr. Harshal Nigam. The coordinators of the event were Dr. Shubhi Jain, Mr. Harshal Nigam and Mr. Abhinandan Jain. The student coordinators were Priyanshu Lohar & Debopam Sinha.



INTERNATIONAL CONFERENCE ON 'ADVANCEMENTS IN NANOELECTRONICS AND COMMUNICATION TECHNOLOGIES' ORGANIZED

International Conference on 'Advancement in Nano-electronics and Communication Technologies' (ICANCT-2022) was organized jointly by Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur & the Institution of Engineers (India), Rajasthan State Centre, Jaipur in association with CSIR-

IMMT: InTEC, Bhubaneswar from 24 to 26 February, 2022.

The conference aimed at creating awareness regarding current researches being carried out in the areas of Communication, Nanoelectronics, Photonics, Wireless Communication, Mobile Communications, Antenna and Wave Propagation, Optical Communication, Image Processing, Internet of Things, Machine Learning, Artificial Intelligence, Embedded System and VLSI technology. The inaugural ceremony was graced by the benign presence of the Chief Guest Dr. Deep Jariwala, Principal Investigator, Device Research and Engineering Laboratory, University of Pennsylvania, Philadelphia, United States; the Guest of Honour Dr. Kishore Kumar Sadasivuni, Professor, Centre for Advanced Materials, Qatar University; Dr. Ayşegül, Professor, Suleyman Demirel University, Turkey; Mr. Gunjan Saxena, Chairman, IE(I) Rajasthan State Centre and Prof. T. Pavan Kumar, Senior Scientist, CSIRIMMT. Prof. S. L. Surana, Director (Academics) welcomed all the guests and briefed about the theme of the conference. Mr. Gunjan Saxena highlighted the core objectives of the conference and schemes offered by IE(I). Prof. T. Pavan Kumar threw light on the initiative of MAITRI program. Dr. Jariwala enlightened the audience with the emerging researches and techniques in the related field. Dr. Kishore Kumar Sadasivuni threw light on different types of nanosensors. Dr. Ayşegül presented the design methods of chemical micro-motors. At the end of the inaugural ceremony, Dr. Mukesh Arora, Head-ECE proposed the vote of thanks. The inaugural was followed by oral presentations. The first session was chaired by Dr. Pooja Sharma, CFUM-UP, University of Minho, CEMMPRE, University of Coimbra, Portugal. Total 10 papers were presented on the first day of this conference. On the second day, Dr. Ghanshyam Singh, Professor, Department of Electrical and Electronic Engineering, University of Johannesburg, South Africa delivered an expert talk on '6G Communication Systems'. Dr. Ankit Goyal, University of Amsterdam, Netherland shared his knowledge on photophysical properties of Inorganic Perovskite Nanocrystals. The last day of the conference opened up with the session of Prof. Tawfik Ismail, Director of WINC Research Centre, Nile University, Egypt. Dr. Ismail discussed about RF/Optical Wireless Telemetry for Active Implantable Neural Platform with Data Compression. It was followed by the session of Dr. Umesh Chand, Scientist II, Institute of Microelectronics, Agency for Science, Technology and Research (A STAR), Singapore who threw light on 'what is Beyond the Smart – Advance Technologies'.

Total 52 research papers were presented in the conference. Mr. Ankit Agarwal, Assistant Professor, SKIT gave the vote of thanks. The convenors of the conference were Dr. Mukesh Arora and Dr. Praveen Kr. Jain. The co-convenors were Dr. Rukhsar Zafar, Ms. Pooja Choudhary and Mr. Ankit Agarwal.



SHORT TERM TRAINING COURSE ON 'MICROWAVE ANTENNAS: DESIGN & MEASUREMENTS' (MA-D&M-2022) ORGANIZED

A Short Term Training Programme (STTP) on 'Microwave Antennas: Design & Measurements' was organized by SKIT, Jaipur in association with IEEE APS Chapter, Jaipur and sponsored by JV Micronics, Agmatel, Anritsu and Jyoti Electronics from 21 to 26 March, 2022.

The Chief Guest of the event was Dr. O.P.N Calla, Director, ICRS Lab, Jodhpur and the guest of honour was Dr. M.M. Sharma, Professor, MNIT, Jaipur. The first day began with a session by Dr. O. P. N. Calla. He delivered an expert talk on 'Microwave Antennas and Measurement' and also discussed about the different research facilities available in his lab for the research scholars. In the second session, Dr. S.K Bhatnagar, Professor, SKIT, Jaipur delivered an expert talk on 'Rectenna and its use for Energy Harvesting'. It was followed by the session of Renuka Wekhande, Senior Application Engineer. She discussed about ADS Software along with simulations that can be done on the software. The second day kicked off with an expert talk by Dr. Dinesh Yadav, Associate Professor, Manipal University, Jaipur. He discussed about 'Design of Reconfigurable Antennas for Ultra-Wideband Applications'. In the second session, Mr. Aditya Sharma, Technical Support Engineer, Anritsu gave an expert talk on VNA. On the third day, Dr. Sanjeev Yadav, Associate Professor, GWEC, Ajmer gave an expert talk on 'Frequency Selective Surfaces and their Applications. On day-4, Dr. Ankur Saharia, Assistant Professor, Manipal University, Jaipur enlightened the participants with his knowledge of 'Optical Antennas and their Designs'. In the next session, Mr. Alok Kumar Singhal, Scientist SAC ISRO, Ahmedabad, delivered an expert talk on 'Circular Polarized Antenna Array. Mr. Abhay Kumar Singh, Senior Application Engineer, Jyoti Electronics, conducted a hands-on session on CST Software and described the procedure to simulate certain antenna designs. Day- 5 opened with the session on 'Anechoic Chamber' by Mr. Mahesh Kala, CEO, J V Micronics. Dr. Monika Mathur, Associate Professor, Dept. of Electronics and

Communication Engineering, SKIT discussed about her research work done in the field of Antenna and Designing of RF Energy Harvesting Module along with a hands-on session on Rectenna circuits on HFSS software. Day-6 started with an expert lecture by Dr. Mithilesh Kumar, Professor, RTU, Kota, He enlightened the participants with the recent trends in Microstrip Antenna designing. The last day of the conference ended with an expert talk of Dr. Soumava Mukharjee, Asst. Prof, IIT Jodhpur. He talked on 'Millimeter Wave Antennas.



INTERACTIVE SESSION ON 'INTEGRATED APPROACH IN SCIENCE AND TECHNOLOGY FOR A SUSTAINABLE FUTURE' ORGANIZED

On 'National Science Day 2022', IEEE-MTT Student Chapter of SKIT, organized an interactive session on the theme of 'Integrated Approach in Science and Technology for a Sustainable Future' on 28 February, 2022. The topic of the talk was 'Harnessing Solar Energy for Sustainable Development'. The special guest for this interactive session was Dr. Minal Bafna, Head, Department of Physics, Agarwal PG College, Jaipur. Dr. Bafna briefed the students about the solar energy and its ease of availability in a country like India. She made the students aware about the current energy scenario where the demand of energy is increasing day by day and the supply is not sufficient and even the natural reserves of fossil fuels are depleting. The interactive session was concluded with the vote of thanks by Mr. Harshal Nigam, Assistant Professor, Dept. of ECE.



FACULTY DEVELOPMENT PROGRAM ON 'APPLICATION OF ARTIFICIAL INTELLIGENCE IN VLSI AND COMMUNICATION TECHNOLOGY' (AAIVCT-2022) ORGANIZED

A one-week Faculty Development Programme (FDP) on 'Application of Artificial Intelligence on VLSI and Communication Technology' was organized by SKIT, Jaipur from 7 to 11 March, 2022.

Prof. Ghanshyam Singh, Department of Electrical and Electronic Engineering, University of Johannesburg, South Africa was the chief guest. The FDP began with a welcome address by Prof. Mukesh Arora, Head ECE & OFA, SKIT. The first session began with an expert talk of Dr. Sikdar. He talked on 'Promises of Integrated Photonics Devices Technology with AI'. In the second session, Prof. Ghanshyam Singh shared his valuable knowledge on the 'Role of AI in 6G Applications'. The second day started with an expert talk of Dr Binod Kumar, Associate Professor, IIT Jodhpur. He talked about Hardware Design Methodologies for Artificial Intelligence. It was followed by the session of Dr Jai Narayan Tripathi, Assistant Professor, IIT Jodhpur. He discussed on 'Computational Intelligence for Designing VLSI Systems'. On the third day, Dr Kuldeep Singh from MNIT, Jaipur shared his valuable knowledge on 'Nature inspired Optimization Techniques and their Applications in Communication Engineering'. It was followed by a hands-on session on the 'Xilinx Vivado Design Flow using 7 series FPGA Architecture' by Dr. Vikas Pathak and Mr. Ankur Sangal, Lead Application Engineers, CoreEL Technologies, New Delhi. On the fourth day, DR. S. J. Nanada from MNIT, Jaipur talked on 'Machine Learning for Cooperative Spectrum Sensing'. This was followed by a hands-on session on 'Simulation of different Photonic Sensor using FDTD Platform' by Dr. Gaurav Kumar Bharti from Electrical Engineering Department, Chandigarh University, Chandigarh. On the last day, Dr. Rukhsar Zafar, Associate Prof., SKIT Jaipur gave an expert talk on 'Intelligent photonics'. Dr. Ajay Khunteta, Associate Professor, RTU Kota delivered a valuable talk on '5G Communication and Role of AI in 5G'. The FDP enabled the researchers, students and faculty to explore a new realm of technology and to work in this particular field in future. The event was a great success.



GLIMPSE OF THE FDP

STTP ON 'EMERGING TOOLS AND TECHNIQUES IN VLSI, MEMS & MOEMS' ORGANIZED

A Short Term Training Programme was organized by the ECE Department from 25 to 29 January, 2022. Mr. Shanmugaraj V., Scientist - F & Centre Head, CMTI, Bengaluru was the Chief guest. The STTP began with the welcome address by Prof. S.L.Surana, Director, Academics, SKIT. Mr. Shanmugaraj V., discussed the importance of VLSI, MEMS, MOEMS in the present time. In his talk, he emphasized on Smart Sensors and Controls. He explained different types of sensors to measure different parameters.

Day 2 began with an expert lecture of Prof. Ajay Agrawal from IIT Jodhpur. He enlightened the participants about the importance of Nano-technologies for healthcare sensors. He threw light on the significance of markers for early diagnosis of heart attack, cancer, covid, diabetes and other fatal diseases and also talked about the challenges in diagnosis at an early stage like cost, time, concentration, negligence of diseases etc. He discussed about the designing and testing of biosensors used in detection of diseases. Day 3 kicked off with the knowledge enriching session of Dr. Akshdeep Sharma, Senior Scientist, He talked about the paradigm shift from MEMS to NEMS along with the different domains of MEMS innovation. He also discussed about the manufacturing process of microsystems including FEM simulation on COMSOL. He explained about the complete fabrication flow related to the MEMS Bionic Sensor for Autonomous Underwater Vehicle. It was followed by another technical session by Dr. Vijaynath, Associate Professor, BIT Mesra Ranchi on 'Chip Design for Aerospace Applications'. He discussed about the impact of Microelectronics and VLSI design in human life. He also explained about the various applications of VLSI system design flow including CMOS based Temperature Sensor, Piezoresistive Pressure Sensor for aerospace applications. Day 4 started with an expert talk on 'Design and Development of Electronic Devices for MEMS and Bio-sensing Applications' by Dr. C. Periasamy. He discussed about the development, characterization of ZnO nanoneedles as piezoelectric nanogenerators for energy harvesting application. He also discussed about the HEMT for biosensing application. The next technical session was delivered by Dr. Gaurav Bharti, Chandigarh University. He talked about the applications of Photonics in Biosensing and Chemical sensing. The session was followed by the hands on experience on the designing of ring resonators and different photonic structures using FDTD tool. The last seventh technical session on day 5 was delivered by Dr. Chitrakant Sahu, from MNIT Jaipur. He discussed about the saturation of Moore's Law and evolution of new devices like FINFETs, Junction Less Transistors for future computing applications. He also talked about the TCAD simulation of JLFETs and their characteristics.

The STTP enlightened the researchers, students and faculty to explore a new realm of technology and apprised them of the future prospects in research in this particular field.



ALUMNI INTERACTION PROGRAM ON 'CAREER OPPORTUNITY IN CYBER SECURITY' ORGANIZED

An alumni interaction program on 'Career Opportunity in Cyber Security' was organized jointly by the Department of Electronics and Communication Engineering and the Institution of Engineers (India) at SKIT, Jaipur. The guest of the event was Shri Nikhil Agarwal, Senior Solution Architect, Fortanix Inc. Prof. Mukesh Arora; Head, ECE welcomed all the guests. Dr Swati Arora introduced the students about the achievements of Student Chapter Institution of Engineers (India). It was followed by the talk of Mr. Nikhil Agarwal, an alumnus of SKIT. He shared his experiences from his college days and discussed about cyber security and companies related to it. He emphasized on the use of technical knowledge, smart work, and work ethics. He educated the students about the emerging challenges and importance of cyber security course. The coordinators of the program were Dr. Swati Arora, Ms. Manju Choudhary and Ms. Pooja Choudhary. The vote of thanks was delivered by Ms. Manju Choudhary.



FACULTY INDUCTION PROGRAMME ON 'RECENT TRENDS OF ROBOTICS AND AUTOMATION'

The Department of Electronics and Communication Engineering, SKIT, Jaipur organized an AICTE-ISTE sponsored one-week Faculty Induction Programme on 'Recent Trends of Robotics and

Automation' from 5 to 11 January, 2022. The FIP was inaugurated by the Chief Guest Dr. Pratapsinh Kakaso Desai, President ISTE and Guest of Honor Prof. Ashu Dehadani, Section Chairperson, Rajasthan section ISTE. Prof. Mukesh Arora, Head ECE welcomed the guests and the participants of the FIP. He talked about the importance of such type of induction programs for faculty. Prof. Rohit Mukherjee introduced the audience about SKIT and ISTE-Student Chapter.

The FIP was comprised sixteen thoughtful informative sessions delivered by the experts from various reputed institutes. Prof. Asim Tewari, IIT, Bombay; Mr. Ajay Godara, NITTTR, Chandigarh; Dr. Rajeev Agarwal, Associate Professor, Department of Mechanical Engineering, MNIT, Jaipur; Dr. Ravi Kumar Mandava, NIT, Bhopal; Dr. Shruti Wadhwa, Chief Operating officer, Nidus Technologies private Ltd., Mr. Robin Singh, Project Engineer, Siemens Ltd. India; Dr Santhakumar Mohan, Associate Professor, Department of Mechanical Engineering, IIT, Palakkad were some of the experts who enlightened the participants on various aspects of Robotics and Automation.

103 faculty members from various universities and institutes all over the country participated in the FIP. Mr. Pallav Rawal was the coordinator of FIP. The valedictory session was graced by Prof. R. S. Meena, Dean Research, RTU Kota and Dr. Anurag Gaur, J C Bose University of Science & Technology, Faridabad. The vote of thanks was given by Mr. Praveen Saraswat, co-coordinator FIP.

SESSION ON 'THE IMPORTANCE OF ELECTRONICS AND COMMUNICATION ENGINEERING IN SOCIETAL DEVELOPMENT 3.0' ORGANIZED

A session on 'Importance of Electronics and Communication Engineering in Societal Development 3.0' was organized by OSA Student Chapter, Department of ECE, SKIT, Jaipur. The theme of the session was to highlight the importance of Electronics and Communication Engineering in society. The event was graced by the guests of the day, Prof. Manish Tiwari (Manipal University, Jaipur and OSA Ambassador 2020) and Mr. Gunjan Saxena (Dy.



Director General, Department of Telecom, Rajasthan). Professor Mukesh Arora, Head, ECE department, SKIT welcomed the guests and explained the importance of this interaction to the participants. Dr. Monika Mathur, Associate Professor, ECE proposed the vote of thanks and gave an overview of OSA. Prof. Manish Tiwari gave insight about the purpose of OSA and the benefits of the OSA Student Chapter. Mr. Gunjan Saxena shared his valuable experience about the importance of electronics in the industry.

FDP ON 'NBA ACCREDITATION AND TEACHING - LEARNING PROCESS IN ENGINEERING' ORGANIZED

A five-day Faculty Development Programme on NBA Accreditation and Teaching -Learning process in Engineering (NBA-ATLPE, 2021) was organized by the Department of Electronics and Communication Engineering, SKIT, Jaipur from 15 to 19 November, 2021. About 297 participants from different institutes all over the world took part in this FDP.

The Chief guest of the program was Prof. P.S. Grover, Director General, Don Bosco Institute of Technology, New Delhi and Ex-Director, Delhi University. At the beginning of the inaugural ceremony, Prof. Ramesh Kumar Pachar, Principal, SKIT, Jaipur welcomed all the guests. Prof. Mukesh Arora, HOD -ECE, introduced all the dignitaries about the achievements of the organization. The program coordinator Ms. Suman Sharma shared the detailed draft of the FDP with all the participants. At the end of the inaugural ceremony, Dr. P.K. Jain proposed the vote of thanks.

The first session of day 1 was delivered by Prof. P.S. Grover. He explained how to meet the emerging challenges in the education system and what should be the current teaching-learning process. He discussed about the role of educator and student in current digital era. It was followed by the session of Dr. S. Das Mandal, Associate Professor, ATDC, IIT, Kharagpur. He highlighted the various challenges of accreditation and implementation in the classroom. He talked about the impact of examinations on teaching and learning. The consecutive days of the FDP observed the sessions by Prof. N. J Rao, Ex. Chairman CEDT, Ex. Chairman Dept. of MS, IISC Bangalore; Dr. Narendra Nath S., Professor, ME, NIT, Surathkal, Mangalore, Karnataka; Prof. Anil Choudhary, Head, Dept. of IT, SKIT, Jaipur; Prof. Dheeraj Joshi, Head, Dept. of ME, SKIT, Jaipur and Prof. Sanjeev Sofat, Professor, Dept. of CSE, PEC university of Technology.

The Guest of Honor for the valedictory session was Prof. Sanjeev Sofat. Prof. Mukesh Arora (HOD ECE), expressed his gratitude to Prof. Sofat, and appreciated the efforts of the organizing team. Ms. Suman Sharma, gave a brief summary of the events conducted during the FDP. Ms. Rajni Idwal gave the vote of thanks.

LECTURE SERIES ON 'RECENT TRENDS IN ELECTRONICS & COMMUNICATION' (RTEC-21)

An online five-day lecture series on 'Recent Trends in Electronics and Communication' was organized by ECE Dept., SKIT from 20 to 24 September, 2021. Dr. Mukesh Arora (HOD- ECE) welcomed the Chief Guest, Prof. Mithlesh Kumar Gupta (Department of ECE, RTU, Kota). Prof. Gupta delivered an expert talk on 'Recent Trends in MIC Antennas'. This was followed by another expert talk of Dr. Renu Kumawat, (Assoc. Prof., Dept. of Computer and Communication, Manipal University, Jaipur) on 'Application of Machine Learning & AI Algorithms in the field of Electronics & Communication Engineering'. She highlighted the importance of supervised learning, unsupervised learning and reinforcement learning and their applications in discovering hidden patterns in data without the need of human intervention.

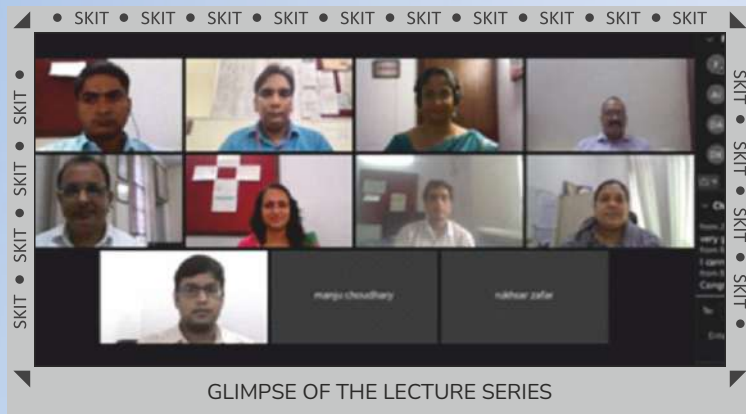
In the first session of the second day, Prof. Kishore Kumar Sadasivuni, (Center for Advanced Materials, Qatar University & Managing Director, Journal of Emergent Materials) delivered an expert talk on 'Advanced Colorimetric Sensors for different Applications'. The Second session started with the expert talk of Mr. Ankur Vijay, (Design Verification Engineer, Xilinx India Ltd., Hyderabad) on 'Latest Memory Device'. He shared his knowledge on the 'DRAM Memory & its Standards and DRAM Subsystem'.

On the third day, Dr. Badrul Hisham Ahmad, (Prof., University Teknikal, Malaysia) delivered a talk on 'Switchable Absorptive Band Stop to Band Pass'. He introduced microwave filters and RF filters and their applications in recent technology. Mr. Abhay Yadav, (Section Engineer, Signal & Telecom, Indian Railways) delivered an expert talk on 'Signaling System in Indian Railways'.

The fourth day started with an expert talk of Dr. Ankur Saharia, (Asst. Prof., Dept. of ECE, Manipal University, Jaipur) on 'Integrated Optics'. He focused on different materials that can be used for designing Optical Integrated Circuits like glass, polymers etc. In the second session, Mr. S. N. Vijayvergiya, Dean (R&D) SKIT, Director (Technology)- GENUS, Jaipur delivered an expert talk on 'Industry 4.0'.

In the first session of the final day, Mr. Tarun Gupta, CGM (R&D), Genus Innovation Limited, Jaipur delivered his talk on 'Industry Trends in Power Electronics' followed by an expert talk of Dr. Sudhir Gupta, (Ex Scientist, BARC, Mumbai) on 'Promise of Machine Learning'.

The valedictory session was graced by Dr. Sudhir Gupta, (Ex Scientist, BARC, Mumbai) and Dr P. K. Jain (Deputy HOD, ECE). Mr. Neeraj Jain and Ms Kiran Rathi were the coordinators. 137 participants from various states attended the series.



WEBINAR ON 'JOURNEY FROM CAMPUS TO RAS'

A webinar on 'Journey from Campus to RAS' was organized by the Department of ECE, SKIT under IE (I) Student Chapter on 9 Sept, 2021 with an aim to teach the students to cope with various problems that come during the preparation of RAS examination. The coordinators of the event were Dr. Swati Arora and Ms. Pooja Choudhary. 134 participants attended the event.

BOOK CHAPTERS PUBLISHED

- BOOK : Nanotechnology Device Design and Applications
- AUTHOR/S : Lalit Kumar Lata, Abhinandan Jain, Praveen Kumar Jain
- BOOK CHAPTER : An Overview of Current Trends in Hafnium Oxide based Resistive Memory Devices
- PUBLISHER : CRC Press, 2022, ISBN (Online) 9781003220350
- BOOK : Wearable and Neuronic Antennas for Medical and Wireless Applications
- AUTHOR/S : Namrata Saxena
- BOOK CHAPTER : Wearable Antennas for Biomedical Applications
- PUBLISHER : Wiley, 2022, ISBN (Online) 9781119791805
- BOOK : VLSI and Hardware Implementations using Modern Machine Learning Methods
- AUTHOR/S : Rahul Pandey
- BOOK CHAPTER : Integrated Photonics for Artificial Intelligence Applications
- PUBLISHER : CRC Press, 2022, ISBN (Online) 9781003201038

- BOOK : OWT International Conference 2020 Springer Proceeding
- AUTHOR/S : Monika Mathur, D. Mathur, G. Singh, S. K. Bhatnagar, Harshal Nigam, Mukesh Arora
- BOOK CHAPTER : Microwave Imaging Breast Cancer Detection Techniques: A Brief Review
- PUBLISHER : Springer

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

- TITLE : Challenges and Application of Wireless Network after the COVID-19
- AUTHOR/S : Shubhi Jain, Tara Chad Soni, Kiran Rathi
- PROCEEDING : Proceedings of International Conference on Recent Advancements in Science, Engineering & Technology, and Management, 1 to 2 September, 2021
- TITLE : Phased Array Microstrip Antenna for 5G Applications with Enhanced Bandwidth
- AUTHOR/S : Harshal Nigam, Monika Mathur, Mukesh Arora
- PROCEEDING : Indian Conference on Antennas and Propagation, 13 to 16 December, 2021, INCAP- 2021, MNIT Jaipur
- TITLE : Dual Band Circular Patch Coplaner Microstrip Patch Antenna for X Band and Ku Band Applications
- AUTHOR/S : Suman Sharma, Harshal Nigam, Mukesh Arora, Monika Mathur
- PROCEEDING : Indian Conference on Antennas and Propagation, 13 to 16 December, 2021, INCAP- 2021, MNIT Jaipur

PAPERS PRESENTED IN CONFERENCES

- TITLE : FPGA Implementation of High Speed Anti-Notch Lattice Filter for Exon Region Identification in Eukaryotic Genes
- AUTHOR/S : Vikas Pathak, Kiran Rathi
- CONFERENCE : Annual Symposium on VLSI (ISVLSI - 2021), Tampa, Florida, USA, 7 to 9 July, 2021

College was blast. My three years of college were the best years of my life.

TITLE : High Speed FPGA Implementation of K Means Clustering Algorithm for Microarray Data Analysis
 AUTHOR/S : Vikas Pathak, S. J. Nanda, A. M. Joshi and S. S. Sahu
 CONFERENCE : International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASSETM - 2021), SKIT, Jaipur, 1 to 2 September, 2021

TITLE : Challenges and Application of Wireless Network after COVID-19
 AUTHOR/S : Shubhi Jain, Tara Chand Soni, Kiran Rathi
 CONFERENCE : International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASSETM & M 2021), SKIT, Jaipur, 1 to 2 September, 2021

FDPs ATTENDED

TITLE : Computer vision and Image processing
 DATE : 31 January to 4 February, 2022
 ATTENDED BY : Priyanka Sharma, Rajni Idiwali, Ankit Agarwal
 ORGANIZED BY : SKIT, Jaipur

TITLE : Application of Artificial Intelligence on VLSI and Communication Technology
 DATE : 7 to 11 March, 2022
 ATTENDED BY : Abhinandan Jain, Harshal Nigam
 ORGANIZED BY : SKIT, Jaipur

TITLE : Arduino
 DATE : 22 to 26 March, 2022
 ATTENDED BY : Harshal Nigam
 ORGANIZED BY : SKIT, Jaipur

TITLE : Advanced Sensor Technology for Efficient Biomedical and Energy Management in Smart Cities
 DATE : 3 to 11 March, 2022
 ATTENDED BY : Suman Sharma, Priyanka Sharma, Rajni Idiwali
 ORGANIZED BY : ATAL Academy

TITLE : Photonics & its applications
 DATE : 14 to 18 February, 2022
 ATTENDED BY : Ankit Agarwal
 ORGANIZED BY : ATAL Academy

TITLE : IOT & Applications
 DATE : 14 to 25 February, 2022
 ATTENDED BY : Pooja Choudhary
 ORGANIZED BY : EICT Academy, Jaipur

TITLE : NBA Accreditation and Teaching Learning Process in Engineering
 DATE : 15 to 19 November, 2021
 ATTENDED BY : Praveen Kumar Jain, Rajni Idiwali, Priyanka Sharma, Sunil Lakhawat, Vikas Pathak, Swati Arora, Suman Sharma, Shubhi Jain, Pooja Choudhary, Neeraj Jain, Monika Mathur, J. P. Vijay, Harshal Nigam, Abhinandan Jain
 ORGANIZED BY : SKIT, Jaipur

TITLE : Machine Learning Application in Signal Processing and Communication Engineering
 DATE : 3 to 8 January, 2022
 ATTENDED BY : Priyanka Sharma
 ORGANIZED BY : EICT, Academy, supported by MeitY, Govt. of India and IIT Guwahati

TITLE : Advanced Sensor Technology for Efficient Biomedical and Energy Management in Smart Cities
 DATE : 3 to 7 January, 2022
 ATTENDED BY : Rajni Idiwali, Priyanka Sharma
 ORGANIZED BY : JECRC, Jaipur

TITLE : Research Applications in the field of Artificial Intelligence
 DATE : 4 to 8 January, 2022
 ATTENDED BY : Rajni Idiwali, Priyanka Sharma
 ORGANIZED BY : SKIT, Jaipur

TITLE : Research Issues in VLSI Design and Testing
 DATE : 2 to 6 August, 2021
 ATTENDED BY : Vikas Pathak, Mamta Jain, Vikas Pathak, Neeraj Jain
 ORGANIZED BY : AICTE ATAL Academy

TITLE : Code of Conduct & Professional Ethics
 DATE : 16 to 21 August, 2021
 ATTENDED BY : Vikas Pathak, Shubhi Jain, Jay Prakash Vijay, Suman Sharma
 ORGANIZED BY : SKIT, Jaipur

TITLE : Universal Human Values
 DATE : 19 to 23 July, 2021

ATTENDED BY : Harshal Nigam, Pooja Choudhary
ORGANIZED BY : AICTE

ORGANIZED BY : Suman Sharma, Namrata Saxena
SKIT, Jaipur

TITLE : Antennas: Design, Fabrication and
Measurement
DATE : 2 to 6 August, 2021
ATTENDED BY : Harshal Nigam
ORGANIZED BY : AICTE ATAL Academy

TITLE : Innovation in Techno Management
DATE : 6 to 8 August, 2021
ATTENDED BY : Swati Arora
ORGANIZED BY : Sinhgad Institute of Management &
Computer Application, Pune

TITLE : Machine Learning and Computer Vision
DATE : 5 to 9 July, 2021
ATTENDED BY : Harshal Nigam, Neeraj Jain,
ORGANIZED BY : AICTE ATAL Academy

TITLE : 3D Printing
DATE : 19 to 23 July, 2021
ATTENDED BY : Kiran Rathi
ORGANIZED BY : AICTE ATAL Academy

TITLE : Internet of Things
DATE : 13 to 17 September, 2021
ATTENDED BY : Harshal Nigam, Rajni Idiwai, Shubhi Jain
ORGANIZED BY : AICTE ATAL Academy

TITLE : ASIC Design for Driving Digital
Innovations in Next Gen Platform
DATE : 23 to 27 August, 2021
ATTENDED BY : Mamta Jain
ORGANIZED BY : AICTE ATAL Academy

TITLE : Advanced Research Methodology and
Writing High Quality Research Papers
DATE : 24 to 28 August, 2021
ATTENDED BY : Harshal Nigam, Shubhi Jain, Kiran Rathi,
Mamta Jain, Manju Choudhary, Ankit
Agarwal, Abhinandan Jain, Sunil
Lakhawat, Vikas Pathak
ORGANIZED BY : SKIT, Jaipur

TITLE : AI and Machine Learning
DATE: 28 June to 2 July, 2021
ATTENDED BY : Ankit Agrawal
ORGANIZED BY : ICFAI University, Jaipur

TITLE : Nano sensors
DATE : 5 to 9 July, 2021
ATTENDED BY : Praveen Kumar Jain, Swati Arora,
Abhinandan Jain, Ankit Agarwal
ORGANIZED BY : AICTE ATAL Academy

TITLE : Digital Tools for Writing Manuscripts for
Writing, Authoring a Reviewing
Manuscripts
DATE : 12 to 23 July, 2021
ATTENDED BY : Pooja Choudhary
ORGANIZED BY : MNIT, Jaipur

TITLE : IoT
DATE : 9 to 13 August, 2021
ATTENDED BY : Rukhsar Zafar
ORGANIZED BY : AICTE ATAL Academy

TITLE : Embedded C Programming of
Microcontroller
DATE : 16 to 20 August, 2021
ATTENDED BY : Abhinandan Jain
ORGANIZED BY : NITTTR, Chandigarh

TITLE : Photonics
DATE: 28 June to 2 July, 2021
ATTENDED BY : Rukhsar Zafar, Ankit Agarwal
ORGANIZED BY : AICTE ATAL Academy

TITLE : Recent Trends in Bio MEMS
DATE : 20 to 24 August, 2021
ATTENDED BY : Namrata Saxena
ORGANIZED BY : NIT, Silchar

TITLE : Photonics
DATE : 19 June to 23 July, 2021
ATTENDED BY : Ankit Agarwal
ORGANIZED BY : AICTE ATAL Academy

TITLE : IGBC-Green Building & Built
Environment
DATE : 13 to 17 September, 2021
ATTENDED BY : Priyanka Sharma
ORGANIZED BY : ATAL – IGBC

TITLE : OBE
DATE : 24 to 28 August, 2021
ATTENDED BY : Swati Arora, Manju Choudhary, Rajni
Idiwai, Pooja Choudhary,

**“The important thing is to never
stop questioning.”**

COMPLETED

COURSE/ TOPIC : Microprocessors and Microcontrollers
 COMPLETED BY : Abhinandan Jain
 DURATION & CATEGORY : January to April, 2022. Awarded Elite & Silver

COURSE/ TOPIC : Microprocessors and Microcontrollers
 COMPLETED BY : Neeraj Jain
 DURATION & CATEGORY : January to April, 2022. Awarded Elite Certificate

COURSE/ TOPIC : Microprocessors and Interfacing
 COMPLETED BY : Manju Choudhary
 DURATION & CATEGORY : January to April, 2022

COURSE/ TOPIC : Entrepreneurship Essentials
 COMPLETED BY : Shubhi Jain
 DURATION & CATEGORY : January to April, 2022

COURSE/ TOPIC : Intellectual Property
 COMPLETED BY : Ankit Agarwal
 DURATION & CATEGORY : January to April, 2022. Awarded Elite Certificate

COURSE/ TOPIC : Sensors & Actuators
 COMPLETED BY : Namrata Saxena
 DURATION & CATEGORY : January to April, 2022. Elite & Silver

COURSE/ TOPIC : Intellectual Property
 COMPLETED BY : Praveen Kumar Jain
 DURATION & CATEGORY : January to April, 2022. Elite & Silver

COURSE/ TOPIC : A Brief Introduction of Micro Sensors
 COMPLETED BY : Namrata Saxena
 DURATION & CATEGORY : January to February, 2022. Awarded Elite Certificate

COURSE/ TOPIC : Discrete Time Signal Processing
 COMPLETED BY : Ankit Agarwal
 DURATION & CATEGORY : January to February, 2022

COURSE/ TOPIC : Principles of Communication Systems: Part - II

COMPLETED BY : Ankit Agarwal
 DURATION & CATEGORY : July to October, 2021. Awarded Elite+Silver Certificate

COURSE/ TOPIC : Computer Architecture & Organization
 COMPLETED BY : Pooja Choudhary
 DURATION & CATEGORY : July to October, 2021

COURSE/ TOPIC : Computer Architecture & Organization
 COMPLETED BY : Manju Choudhary
 DURATION & CATEGORY : July to October, 2021

COURSE/ TOPIC : Digital Circuits
 COMPLETED BY : Mamta Jain
 DURATION & CATEGORY : July to October, 2021. Awarded Elite+Silver Certificate

COURSE/ TOPIC : Fabrication Techniques for MEMs based sensors : Clinical Perspective
 COMPLETED BY : Namrata Saxena
 DURATION & CATEGORY : July to October, 2021. Awarded Elite Certificate

COURSE/ TOPIC : Accreditation for Undergraduate Engineering Programme
 COMPLETED BY : Shubhi Jain
 DURATION & CATEGORY : January to March, 2021 (3 -Week).

COURSE/ TOPIC : Microwave Engineering
 COMPLETED BY : Shubhi Jain
 DURATION & CATEGORY : July to October, 2021 (12 -week).

COURSE/ TOPIC : Computer Networks & Internet Protocols
 COMPLETED BY : Vikas Pathak
 DURATION & CATEGORY : January to April, 2021 (12 -week). Awarded Elite Certificate

COURSE/ TOPIC : Digital IC Design
 COMPLETED BY : Vikas Pathak
 DURATION & CATEGORY : January to April, 2021 (12-week)

COURSE/ TOPIC : Microprocessor and Microcontrollers
 COMPLETED BY : Mamta Jain
 DURATION & CATEGORY : January to April, 2021 (12-week). Awarded Elite Certificate

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

COMPLETED BY : Suman Sharma
DURATION & CATEGORY : January to April, 2021 (12-week).
Awarded Elite Certificate

COURSE/ TOPIC : Principles of Signal and System
COMPLETED BY : Ankit Agarwal
DURATION & CATEGORY : January to April, 2021 (12-week).
Awarded Elite Certificate

COURSE/ TOPIC : Analog Circuits
COMPLETED BY : Kiran Rathi
DURATION & CATEGORY : January to April, 2021 (12-week).
Awarded Elite Certificate

WORKSHOPS ATTENDED

TITLE : Embedded Systems –An Application
Driven Approach Workshop
DATE : 25 to 27 August, 2021
ATTENDED BY : Priyanka Sharma
ORGANIZED BY : AICTE & ARM Education

TITLE : Microwave ,Millimeter Waves
& Tetrahertz Techniques
DATE : 17 to 23 July, 2021
ATTENDED BY : Shubhi Jian
ORGANIZED BY : IEEE Delhi Section AP-S Chapter-Jaipur

TITLE : IIIE 2021
DATE : 14 to 18 August, 2021
ATTENDED BY : Vikas Pathak, Pooja Choudhary,
Priyanka Sharma
ORGANIZED BY : SKIT, Jaipur

STTPs ATTENDED

TITLE : Emerging Tools and Techniques in VLSI,
MEMS & MOEMS (ETTVMM-2022)
DATE : 25 to 29 January, 2022
ATTENDED BY : Priyanka Sharma, Rajni Idiwai, Sunil
Lakhawat
ORGANIZED BY : SKIT, Jaipur

TITLE : Optical Fiber Communication
DATE : 26 to 30 July, 2021
ATTENDED BY : Gloria Joseph
ORGANIZED BY : NITTR, Chennai

TITLE : Innovative and Inventive problem solving
DATE : 13 to 18 July, 2021
ATTENDED BY : Swati Arora
ORGANIZED BY : AICTE AQIS Sponsored STTP

TITLE : Optimization & Control Design
Techniques: Innovations & Challenges
DATE : 21 to 26 June, 2021
ATTENDED BY : Shubhi Jain
ORGANIZED BY : AICTE AQIS Sponsored STTP

COURSES MENTORED

MENTOR/S	COURSE/S
Neeraj Jain, Vikas Pathak	: Digital Circuits
Kiran Rathi, Sunil Lakhawat	: Introduction to Semiconductor Device
Rahul Pandey, Pallav Rawal	: Control Engineering
Harshal Nigam	: Microwave Theory and Techniques
Praveen K Jain	: Electromagnetic Theory
Shubhi Jain	: Microwave Engineering
Manju Choudhary	: Computer architecture and organization

EXPERT TALK / WEBINARS ATTENDED

TITLE : Intellectual Property Rights
DATE : 25 October, 2021
ATTENDED BY : Shubhi Jain
ORGANIZED BY : SKIT, Jaipur

TITLE : Intellectual Property Rights
DATE : 18 to 22 Jan, 2022
ATTENDED BY : Priyanka Sharma, Rajni Idiwai
ORGANIZED BY : SKIT, Jaipur

TITLE : Intellectual Property Rights and
Innovation
DATE : 19 August, 2021
ATTENDED BY : Vikas Pathak, Pooja Choudhary
ORGANIZED BY : SKIT, Jaipur

TITLE : Live Interaction with IP experts
DATE : 3 October, 2021
ATTENDED BY : Praveen Kumar Jain
ORGANIZED BY : IPTSE Academy

FACULTY INDUCTION PROGRAM (FIP) ATTENDED

TITLE : Recent Trends of Robotics & Automation
DATE : 5 to 11 January, 2022
ATTENDED BY : Shubhi Jain, Priyanka Sharma,
Rajni Idiwai, Abhinandan Jain,
Harshal Nigam, Rahul Pandey,

ORGANIZED BY : Neeraj Jain, Sunil Lakhawat,
Gloria Joseph, Suman Sharma.
SKIT, Jaipur

SESSION CHAIRED

SESSION ON : International Conference on Artificial
Intelligence: Advances and Applications

CHAIRER BY : Monika Mathur
DATE & VENUE : 23 to 24 April, 2022 at PCE, Jaipur

SESSION ON : Indian Conference on Antennas &
Propagation (InCAP 2021)

CHAIRER BY : Monika Mathur
DATE & VENUE : 13 to 16 December, 2021. at MNIT,
Jaipur

SESSION ON : International Conference on
Multidisciplinary and Current Educational
Research

CHAIRER BY : Harshal Nigam
DATE & VENUE : 1 July, 2021 at MCU University, Thailand

EXPERT TALK DELIVERED

TITLE : Hybrid Solar Cell Technology
DATE & VENUE : 8 to 12 February, 2022 at Anand
International College of Engineering,
Jaipur
DELIVERED BY : Praveen Kumar Jain

TITLE : RF Energy Harvesting on HFSS
DATE & VENUE : 22 to 26 March, 2022 at SKIT Jaipur
DELIVERED BY : Monika Mathur

TITLE : Solar Cell Device Modelling on COMSOL
DATE & VENUE : 16 to 20 February, 2022 at MNIT Jaipur
& BIAS Bhimtal
DELIVERED BY : Namrata Saxena

TITLE : Solar Cell Devices
DATE & VENUE : 3 February, 2022 at G.B.Poddar College,
Nawalgarh, Rajasthan.
DELIVERED BY : Praveen Kumar Jain

TITLE : Resistive Random Access Memory
Devices
DATE & VENUE : 11 February, 2022 at Anand
International College of Engineering,
Jaipur
DELIVERED BY : Praveen Kumar Jain

TITLE: Cyber Security
DATE & VENUE : 11 February, 2022 In the Webinar
Series under Azadi ka Amrit Mahotsav
organized by DOT, Govt. of Rajasthan,
Jaipur
DELIVERED BY : Monika Mathur

TITLE : Plasmonics: Next Chip Scale Technology
DATE & VENUE : 17 October, 2021 at MNIT, Jaipur
DELIVERED BY : Rukhsar Zafar

TITLE : Optics at Nanoscale-Photonics
DATE & VENUE : 9 October, 2021 at Sugana College of
Engineering, Coimbatore,
DELIVERED BY : Rukhsar Zafar

PAPER REVIEWED

TITLE : A Survey to Enhance the Secrecy
Performance using PLS Approach
REVIEWER : Shubhi Jain
CONFERENCE : International Conference on Trends in
Electronics and Health Informatics

PATENTS FILED

TITLE : Machine Learning based Breast Cancer
Detection by Neuro Fuzzy Logic
NAME : Harshal Nigam, Monika Mathur
PATENT FILED DATE : Application No. 202141018245;
30 April, 2021

TITLE : Image Contrast Enhancement System
with Fuzzy Based Threshold Histogram
Equalization
NAME : Shubhi Jain
PATENT FILED DATE : Application No. 202111028832;
23 July, 2021

Ph.D. AWARDED

THESIS TITLE : Hardware Implementation of Digital
Filtering Techniques for Genomic
Sequence Analysis
Ph.D. AWARDED TO : Vikas Pathak
SUPERVISED BY : Dr. Satyasai Jagannath Nanda and Dr.
Amit Mahesh Joshi
INSTITUTE : MNIT, Jaipur.
YEAR : January, 2022

SYMPOSIUM ON 'ADVANCES IN COMPUTATIONAL INTELLIGENCE FOR POWER SYSTEMS' ORGANIZED

A two-day International Symposium on 'Advances in Computational Intelligence for Power Systems' (ACIPS – 2022) was organized by the Department of Electrical Engineering from 28 to 29 March, 2022. Around 28 papers were presented in the symposium and four expert talks were delivered by the eminent speakers. The chief guest of the event was Prof. Ahmed Lakhssassi, Director of the Engineering Module, LIMA Laboratory Chair, Université du Québec en Outaouais, Canada.

SEMINAR ON 'RECENT ADVANCEMENTS IN RURAL ELECTRIFICATION' ORGANIZED

A two-day online seminar series on 'Recent Advancements in Rural Electrification' (RARE-2022) was organized by the Department of Electrical Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur. The chief guest of the event was Mr. Ashok Khatri, Assistant Director, Ministry of Power, Govt. of India, and the guest of honor was Dr. Prabhat Munshi, Professor, IIT, Kanpur. More than 400 participants registered for this workshop. The objective of conducting this seminar series was to make the participants understood the various recent advancements in rural electrification taking place in India. The experts who graced this event with their virtual presence were Mr. Ashok Kumar Khatri; Dr. Tanuj Rawat, Assistant Professor, SKIT, Jaipur; Mr. Rahul Ranjan, Production Manager, Indo-Tech Magnetics Pvt. Ltd., Gurgaon and Dr. M. P. Sharma, AEN (R.V.P.N.L), Jaipur.



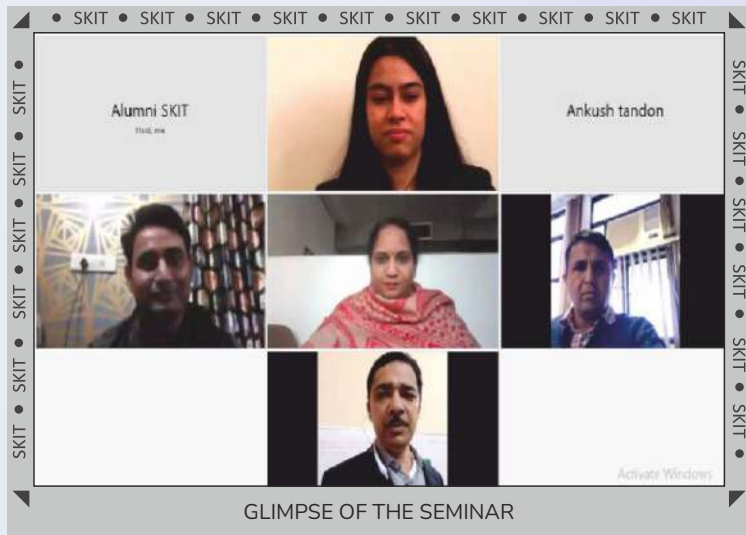
STTP ON 'WRITING AND PUBLISHING OF QUALITY RESEARCH ARTICLES AND ETHICS OF RESEARCH' (WPQRAER-2022) ORGANIZED

A Short-Term Training Program on 'Writing and Publishing of Quality Research Articles and Ethics of Research' (WPQRAER-2022) was conducted by the Department of Electrical Engineering, SKIT, Jaipur from 21 to 25 February, 2022. The aim of the STTP was to provide the participants the methodological insight of writing the research papers and to teach them how to avoid plagiarism in the text and to publish the research in high-quality international journals. More than 540 participants registered for this program from different universities and colleges. The STTP had 10 informative sessions on different topics. The chief guest of the event was Prof. Ramesh Bansal, FIET (UK), FIE (India), SM IEEE (USA), CP Engg (UK) Professor, Electrical Engg. Department, College of Engineering, University of Sharjah, UAE. He discussed about all aspects of a research article for quality publications in reputed journals/conferences. He stressed on the need of providing training to students at UG level itself regarding submission of assignments, reports etc. with originality avoiding plagiarism. Mr. Abhishek Gupta, Mr. Ajay Bhardwaj, Mr. Avadhesh Sharma, and Md. Imran were the coordinators of the event.



ALUMNI INTERACTION PROGRAM 'SYNERGY: INTERACTION WITH ALUMNI' ORGANIZED

An alumni interaction program 'Synergy: Interaction with Alumni' was organized on 11 December, 2021. The key-note speaker of the session was Mr. Tauseef Akram, an alumnus of SKIT, Jaipur. Presently, he is working as an Application Development Specialist, Accenture. Mr. Tauseef Akram shared memories about his college days. He talked about his training days and shared his experiences about innovation and advancement in technology in every sector. He discussed about the challenges, struggles and adventures that he came across in his journey towards his career. He also clarified the misconception of students about the software companies and various divisions of work in companies and industries. Mr Akram also talked about the current scenario of software industries, importance of knowledge of technology, opportunities in it and new emerging technologies in the era



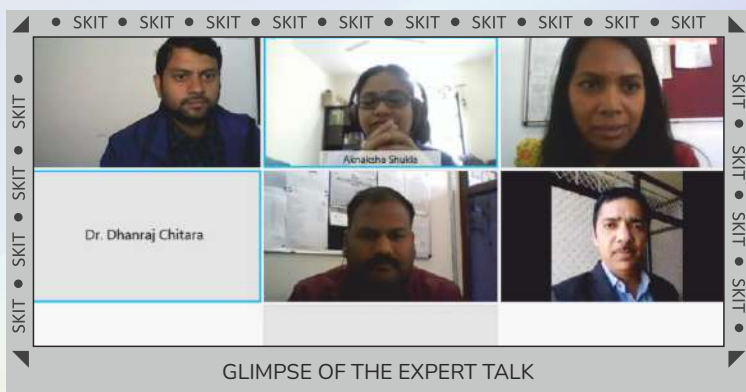
EXPERT LECTURE ON 'FUNDAMENTAL OF POWER ELECTRONICS'

An expert lecture on 'Fundamental of Power Electronics' by Dr. Ajay Kumar, Assistant Professor, Department of EE, BIT Mesra was organized by the Electrical Engineering Department on 10 February, 2022. The session was organized for all the higher semester students of Electrical Department. Dr. Kumar discussed about the fundamentals of power electronics. Keeping in tune with the spirit of the session, he explained some basic concepts related to the topic in order to make the things clearer.

The event was coordinated by Mr. Vivek Sharma and Mr. Ajay Bhardwaj. Dr Dhanraj Chitara (HOD, Dept of EE) delivered the vote of thanks.

EXPERT TALK ON 'CHARGING INFRASTRUCTURE TO ENABLE ELECTRIFIED TRANSPORTATION'

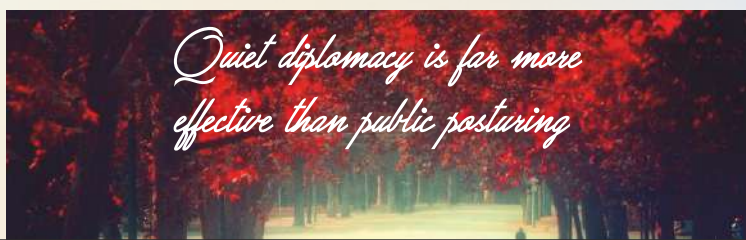
An expert lecture on 'Charging Infrastructure to Enable Electrified Transportation' by Dr. Akanksha Shukla, Assistant Professor, SVNIT, Surat was organized by the Electrical Engineering Department on 5 February, 2022. Dr. Akanksha discussed about the adoption of EVs. She explained that EVs will not only benefit the environment but also reduce reliance on oil markets, thus, coping with energy crisis. She explained how cost, driving range and charging time are major concerns of EV users and how proper planning of charging infrastructure can reduce the charging time and driving range anxiety. Challenges associated with the adoption of Electric Vehicle (EV), Charging Levels Current Scenario in India, Planning of Fast Charging Stations (FCSs) in Integrated Network (distribution network coupled with transportation network considering uncertain behaviour of EV consumers) were the major topics which were discussed during the expert session. The event was coordinated by Ms. Pooja Jain and Mr. Mohammad Imran. Dr Dhanraj Chitara (HOD, Dept of EE) delivered the vote of thanks.



FDP ON 'TECHNO-ECONOMIC ASSESSMENT OF FLEXIBILITY COMPETENCY IN DEREGULATED POWER SYSTEM' ORGANIZED



A five-day Faculty Development Program on 'Techno-Economic Assessment of Flexibility Competency in Deregulated Power System (TEAFCDPS)' was organized by the Department of Electrical Engineering, SKIT from 20 to 24 September, 2021. The Chief Guest was Dr. Bhim Singh (Chair Professor, CEA). The Guest of Honour was Dr. Sukumar Mishra (Professor, EE department, IIT Delhi) and Dr. Jean-Michel Clairand (Associate Prof., UDLA, South America). Prof. Ramesh Pachar, Principal, SKIT threw light on the infrastructure and development policies of the institute.



INTERACTIVE ALUMNI SESSION WITH MR. JAGDISH SINGH GURJAR

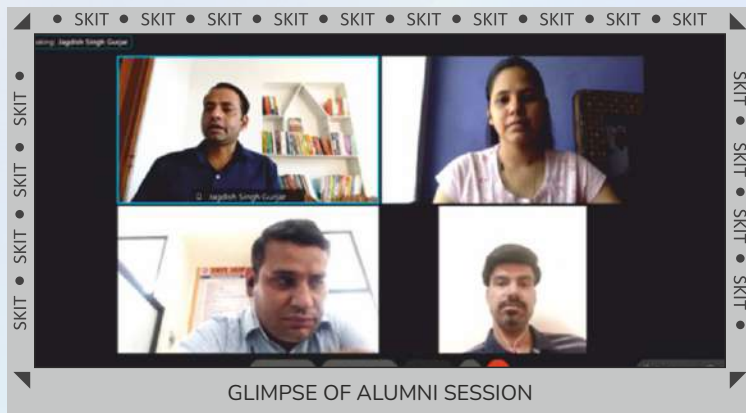
An online interactive session with Mr. Jagdish Singh Gurjar (alumnus, 2009 batch), Assistant Engineer, JVPNL & Ex- L & T (Assistant Manager, Sales) was organized by the department on 13 September, 2021. Mr. Jagdish Singh shared his own challenges and experiences during his career. He advised the students to keep themselves updated about the latest trends in power industry. Mr. Singh emphasised on the benefits of alumni associations in life and carrier growth after college. He also highlighted the importance of preparing effective resume, soft skills, for cracking the interview. The event was coordinated by Mr. Vivek Sharma.



GLIMPSE OF ALUMNI INTERACTION

INTERACTIVE ALUMNI SESSION WITH MR. JAGDISH SINGH GURJAR & MR. HITESH KUMAWAT

Alumni Association, SKIT, Jaipur organized an interactive alumni session on the theme of 'Future Aspect of Electrical Engineering' on 12 August, 2021. The session started with the welcome address by Mr. Vivek Sharma, Alumni Co-Coordinator. The panelists of the session were Mr. Hitesh Kumawat (alumnus, 2009 batch), currently working as an Assistant Engineer in RVUNL and Mr. Jagdish Singh Gurjar (alumnus, 2009 batch), currently working as an Assistant Engineer in RVPNL and also Ex – L&T, Motivator & Counsellor. Mr. Jagdish started the event by explaining the students about career opportunities after engineering in various government and private



GLIMPSE OF ALUMNI SESSION

sectors. He emphasized on setting up of realistic goals, time management, positive attitude, and discussed the strategies to deal with failures.

EXPERT LECTURE ON 'INTRODUCTION TO PARALLEL CONDUCTOR'

An expert lecture on 'Introduction to Parallel Conductor' by Dr Kapil Shukla (alumnus, SKIT), Assistant Professor, Department of EE, MNIT, Jaipur was organized by Alumni Association on 28 September, 2021. Dr. Shukla discussed about Parallel Conductor. He also shared his experiences of his college days at SKIT. The event was coordinated by Mr. Vivek Sharma and Mr. Ankit Vijay. Dr Dhanraj Chitara (HOD, Dept of EE) proposed the vote of thanks.

BOOK CHAPTERS PUBLISHED

- | | | |
|--------------|---|--|
| BOOK | : | Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT |
| AUTHOR/S | : | Gunjan Sharma, Sarfaraz Nawaz |
| BOOK CHAPTER | : | Employing an Improved Loss Sensitivity Factor Approach for Optimal DG Allocation at different Penetration Level using ETAP |
| PUBLISHER | : | Springer, Singapore |
| BOOK | : | Proceedings of Trends in Electronics and Health Informatics |
| AUTHOR/S | : | Tapesh Kumar, Mehul Mahrishi, Sarfaraz Nawaz |
| BOOK CHAPTER | : | A Review of Speech Sentiment Analysis using Machine Learning |
| PUBLISHER | : | Springer, Singapore |
| BOOK | : | Algorithm for Intelligent System |
| AUTHOR/S | : | Ravi Kant Sharma, Dhanraj Chitara, Shashi Raj, K.R.Niaji, Anil Swarnkar |
| BOOK CHAPTER | : | Multi-machine Power System Stabilizer Design using Gray Woolf Optimization |
| PUBLISHER | : | Springer |

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

- | | | |
|----------|---|--|
| TITLE | : | An Application of OMFO for Optimal Bidding Strategy in Pay-as-Bid Auction Environment. |
| AUTHOR/S | : | Pooja Jain , Akash Saxena |

PROCEEDING : International Conference on Artificial Intelligence: Advances and Applications (pp. 785-792). Springer, Singapore.

TITLE : Protection Scheme for Utility Network with Wind Power Generation

AUTHOR/S : Abhishek Gupta, Ramesh Kumar Pachar, Om Prakash Mahela

PROCEEDING : Proceedings of the 11th IEEE International Conference on Communication Systems and Network Technologies (CSNT-2022), Indore, India.

TITLE : Protection of Utility Network with Solar Power Generation

AUTHOR/S : Abhishek Gupta, Ramesh Kumar Pachar, Om Prakash Mahela

PROCEEDING : Proceedings of IEEE International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT 2022), Bhilai, India.

TITLE : A Review on Smart Grid Control and Reliability in the presence of Renewable Energies

AUTHOR/S : Ekta Bhardwaj, Sarfaraz Nawaz

PROCEEDING : Proceedings of International Conference on Recent Innovations in Engineering & Technology for Sustainable Living (RIETSL-2021)

TITLE : Optimal Allocation of Multiple Distributed Generation Units (Type I) in Radial Distribution Topology for Loss Minimization, 2022

AUTHOR/S : Ankush Tandon, Sarfaraz Nawaz

PROCEEDING : 6th IEEE International Conference on Computing, Communication and Automation, 17 to 19 December, 2021

TITLE : Forecasting of PM10 using Intelligent Crow Search Algorithm Tuned Feed-Forward Neural Network

AUTHOR/S : Shalini Shekhawat, Akash Saxena, AK Dwivedi, Vishal Saxena

PROCEEDING : International Conference on Innovative Computing and Communications, 19 to 20 February, 2022

TITLE : Application of Hybridized Whale Optimization for Protein Structure Prediction

AUTHOR/S : Akash Saxena, Shalini Shekhawat, Ajay Sharma, Harish Sharma and Rajesh Kumar

PROCEEDING : International Conference on Innovative Computing and Communications, 19 to 20 February, 2022

TITLE : Harmonic Estimator using Design Atom Search Optimization Algorithm

AUTHOR/S : Aishwarya Mehta, Jitesh Jangid, Akash Saxena, Shalini Shekhawat, Rajesh Kumar

PROCEEDING : International Conference on Communication and Computational Technologies, 27 to 28 February, 2021

TITLE : A Hybrid Forecasting Model based on Equilibrium Optimizer and Artificial Neural Network for Assessment of PM10 Concentration

AUTHOR/S : Shalini Shekhawat, Akash Saxena, AK Dwivedi, Rajesh Kumar

PROCEEDING : Applications of Artificial Intelligence in Engineering, 8 to 10 September, 2020.

TITLE : A Novel Approach to Fractional Riccati Equations by Laplace Decomposition Method

AUTHOR/S : Deepika Jain, Deepti Arela

PROCEEDING : International Conference on Recent Advancements in Science, Engineering & Technology, and Management, 1 to 2 September, 2021

PAPERS PRESENTED IN CONFERENCES

TITLE : Investigation of AC-AC Converter Technology for Electric Vehicle Motor Control and Fast Battery Charging

AUTHOR/S : Mohammad Asif Iqbal; Virendra Sangtani

CONFERENCE : International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT)

TITLE : An Overview of Neural Network (NN) Approaches for Short-Term Load Prediction

AUTHOR/S : Kavita Jain, Deepti Arela, Jyotsna Singh

SYMPOSIUM : Advances in Computational Intelligence for Power Systems, SKIT, Jaipur.

TITLE : Risk-Seeker Information Gap Decision Theory based Smart Grid Operation

AUTHOR/S : Encompassing Demand Response
: Tanuj Rawat, K. R. Niazi, Sachin Sharma,
Jyotsna Singh

CONFERENCE : International Conference on Electrical
and Electronics Engineering (ICEEE),
8 to 9 January, 2022.

TITLE : WD-EEMD based Voting Classifier for
Hand Gestures Classification using
SEMG Signals

AUTHOR/S : Puru Lokendra Singh, Samidha Verma,
Ankit Vijayvargiya, Rajesh Kumar

CONFERENCE : IEEE 6th International Conference on
Computing, Communication and
Automation (ICCCA-2021),17 to 19
December, 2021.

TITLE : Comparative Assessment among
different Convolutional Neural Network
Architectures for Alzheimer's Disease
Detection

AUTHOR/S : Gaargi Sharma, Ankit Vijay vargiya,
Rajesh Kumar

CONFERENCE : IEEE 8th Uttar Pradesh Section International
Conference on Electrical, Electronics and
Computer Engineering (UPCON), 11 to13
November, 2021.

TITLE : Evolutionary Neural Network based
Hybrid Architecture for Strategic Bidding
inElectricity Market

AUTHOR/S : Kavita Jain & Akash Saxena

CONFERENCE : IEEE International Conference on Smart
Technologies for Power, Energy & Control
(STPEC-2021), 19 to 22December, 2021.

TITLE : An Opposition Theory inspired BAT
Algorithm (OTIBA) for Profit
Maximization of GENCOs in Day-ahead
Power Market

AUTHOR/S : Pooja Jain, Akash Saxena, Rajesh Kumar

CONFERENCE : IEEE International Conference on Smart
Technologies for Power, Energy and
Control (STPEC 2021), 19 to 22
December, 2021.

TITLE : Optimal Allocation of Multiple
Distributed Generation Units (Type I) in
Radial Distribution Topology for Loss
Minimization

AUTHOR/S : Ankush Tandon, Sarfaraz Nawaz

CONFERENCE : IEEE 6th International Conference on
Computing, Communication & Automation
(ICCCA). Organized by University of ARAD
(Romania), 17 to19 December, 2021

TITLE : Modified Coupled Inductor based
Interleaved Boost Converter

AUTHOR/S : Abhishek Gupta, Mukul Saini, Naveen
Baloda, Iqbal Khan, Hemant Loyal,
Nitin Bijarnia

CONFERENCE : International Conference on Inventive
Research in Computing Applications
(ICIRCA-2021), IEEE Conference, RVS
College of Engineering and Technology,
Coimbatore, 2 to 4 September, 2021

TITLE : A Robot for Sanitizing a Place

AUTHOR/S : Garvit Gupta

CONFERENCE : International Conference on Recent
Advancements in Science, Engineering &
Technology, and Management,
1 to 2 September, 2021

TITLE : Deep Learning Frameworks for COVID
19 Detection

AUTHOR/S : Ankit Vijayvargiya, Akshit Panchal,
Abhijeet Parashar, Ayush Gautam,
Jayesh Sharma, Rajesh Kumar

CONFERENCE : International Conference on Inventive
Research in Computing Applications
(ICIRCA), 2 to 4 September, 2021

TITLE : Machine Learning based Risk Classification
of Musculoskeletal Disorder among the
Garment Industry Operators

AUTHOR/S : Aastha Arora, Ankit Vijayvargiya,
Rajesh Kumar, Manoj Tiwari

CONFERENCE : International Conference on Inventive
Research in Computing Applications
(ICIRCA), 2 to 4 September, 2021

TITLE : Implementation of Machine Learning
Algorithms for Human Activity Recognition

AUTHOR/S : Ankit Vijayvargiya, Nidhi Kumari,
Palak Gupta, Rajesh Kumar

CONFERENCE : International Conference on Signal
Processing and Communication (ICPSC),
13 to 14 May, 2021

TITLE : A Novel Approach to Fractional Riccati
Equations by using Laplace Decomposition
Method

AUTHOR/S : Deepti Arela
CONFERENCE : International Conference on Recent
Advancements in Science, Engineering &
Technology, and Management
1 to 2 September, 2021

ATTENDED BY : Garvit Gupta
ORGANIZED BY : SKIT, Jaipur

TITLE : Application of different Computational
Techniques in the Field of Engineering
DATE : 25 to 29 January, 2022
ATTENDED BY : Vivek Sharma
ORGANIZED BY : Gargi Memorial Institute of Technology

FDPs ATTENDED

TITLE : Recent Advancements in Electrical
Transportation Technologies
DATE : 7 to 11 February, 2022
ATTENDED BY : Virendra Swaroop Sangtani,
Jitendra Singh
ORGANIZED BY : Vivekananda Institute of Technology, Jaipur.

TITLE : Techno – Economic Assessment of Flexibility
Competency in De-regulated Power System
(TEAFCDPS- 2021)
DATE : 20 to 24 October, 2021
ATTENDED BY : Virendra Swaroop Sangtani
ORGANIZED BY : SKIT, Jaipur

TITLE : Advance Materials and Manufacturing
for Industry-4.0
DATE : 14 to 18 February, 2022
ATTENDED BY : Vivek Sharma
ORGANIZED BY : Vivekananda Institute of Technology, Jaipur

TITLE : Recent Advancement in Power System
with Renewable Energy Sources
DATE : 17 to 21 January, 2022
ATTENDED BY : Kavita Jain
ORGANIZED BY : AICTE Training and Learning (ATAL)
Academy

TITLE : Application of different Computational
Techniques in the Field of Engineering
DATE : 25 to 29 January 2022
ATTENDED BY : Vivek Sharma
ORGANIZED BY : Gargi Memorial Institute of Technology,
Kolkata

TITLE : Deep Learning and Computer vision
DATE : 3 to 7 January, 2022
ATTENDED BY : Kavita Jain
ORGANIZED BY : AICTE Training and Learning (ATAL)
Academy

TITLE : Advances in Power Generation from
Renewable Energy Sources
DATE : 6 to 11 December, 2021
ATTENDED BY : Sarfaraz Nawaz
ORGANIZED BY : PCE, Jaipur

TITLE : Code of Conduct & Professional Ethics
DATE : 16 to 21 August, 2021
ATTENDED BY : Vivek Sharma, Abhishek Gupta
ORGANIZED BY : UHV& EC, SKIT Jaipur

TITLE : Effective Leadership and Excellence in
Technical Education
DATE : 15 to 19 November, 2021
ATTENDED BY : Abhishek Gupta
ORGANIZED BY : Women Engineering College Ajmer &
ATAL Academy

TITLE : State of the Art Applications and Research
Areas in High Voltage Engineering
(RAHVE-2021)
DATE : 5 to 9 July, 2021
ATTENDED BY : Deepti Arela
ORGANIZED BY : National Institute of Technology, Calicut
(ATAL)

TITLE : Techno-economic Assessment of Flexibility
Competency in Deregulated Power System
(TEAFCDPS-2021)
DATE : 20 to 24 September, 2021
ATTENDED BY : Tanuj Rawat
ORGANIZED BY : SKIT, Jaipur

TITLE : Outcome-Based Education: A Paradigm
for Assessment & Accreditation
DATE : 24 to 28 August, 2021
ATTENDED BY : Garvit Gupta, Abhishek Gupta
ORGANIZED BY : Department of Computer Science and
Engineering & Department of Information
Technology (NBA Accredited) under the
aegis of IQAC & PAQIC, SKIT Jaipur

TITLE : Ecological and Eco-efficient
Constructions Practices (EECP-2022)
DATE : 17 to 21 January, 2022

TITLE : Introduction to CAD and its Applications
DATE : 16 to 21 August, 2021

ATTENDED BY : Garvit Gupta
ORGANIZED BY : SKIT, Jaipur

TITLE : Techno-Economic Assessment of Flexibility
Competency in Deregulated Power System
(TEAFCDPS-2021)

DATE : 20 to 24 September, 2021

ATTENDED BY : Garvit Gupta
ORGANIZED BY : SKIT, Jaipur

TITLE : Artificial Intelligence and Machine Learning
Applications in Electrical Engineering

DATE : 9 to 13 August, 2021

ATTENDED BY : Deepti Arela
ORGANIZED BY : CVR College of Engineering (ATAL)

TITLE : Cyber Security

DATE : 24 to 28 August, 2021

ATTENDED BY : Deepti Arela
ORGANIZED BY : Institute of Engineering and Technology
(ATAL)

TITLE : Techno-Economic Assessment of Flexibility
Competency in Deregulated Power System
(TEAFCDPS-2021)

DATE : 20 to 24 September, 2021

ATTENDED BY : Deepti Arela
ORGANIZED BY : SKIT, Jaipur

TITLE : Artificial Intelligence & Machine Learning

DATE : 28 June to 2 July, 2021

ATTENDED BY : Abhishek Gupta
ORGANIZED BY : IcfaiTech, ICFAI University, Jaipur in
collaboration with IEEE Rajasthan

TITLE : Internet of Things (Applications in Medical
Science)

DATE : 9 to 13 August, 2021

ATTENDED BY : Abhishek Gupta, Ajay Bhardwaj,
Ankit Vijayvargiya
ORGANIZED BY : Women Engineering College, Ajmer &
ATAL Academy

TITLE : Signal Processing for 5G and IoT

DATE : 6 to 10 September, 2021

ATTENDED BY : Abhishek Gupta
ORGANIZED BY : Indian Institute of Information Technology,
Kalyani & ATAL Academy

TITLE : Digital Tools for Writing, Authoring and
Reviewing Manuscripts

DATE : 12 to 23 July, 2021

ATTENDED BY : Ajay Bhardwaj

ORGANIZED BY : Electronics & ICT Academics, IIT Guwahati,
NIT Patna, MNIT Jaipur, IIT Kanpur, IIITDM
Jabalpur & IIT Roorkee

TITLE : Internet of Things (IOT)

DATE : 13 to 17 September, 2021

ATTENDED BY : Ajay Bhardwaj
ORGANIZED BY : PSIT, Kanpur in association with ATAL
Academy

TITLE : Machine Learning Frontiers in Healthcare

DATE : 26 to 30 July, 2021

ATTENDED BY : Ankit Vijayvargiya
ORGANIZED BY : AICTE Training and Learning (ATAL)
Academy

TITLE : Advanced Optimization Techniques and
hands-on with MATLAB/SCILAB

DATE : 6 to 17 September, 2021

ATTENDED BY : Ankit Vijayvargiya
ORGANIZED BY : Electronics & ICT Academics MNIT Jaipur,
NIT Patna, IIITDM Jabalpur & IIT Guwahati

TITLE : Emerging Trends in Electric Vehicles and
Infrastructure Development

DATE : 12 to 17 July, 2021

ATTENDED BY : Jinendra Rahul
ORGANIZED BY : IEEE Educational Activities Committee,
IEEE Bombay Section, RIT-CTL & RIT IEEE
Student Branch

STTPs/SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE : Issues and Challenges of Grid Connected
Renewable Energy Sources (ICGCRE-22)

DATE : 21 to 25 February, 2022

ATTENDED BY : Jitendra Singh, Virendra Swaroop Sangtani,
Sarfaraz Nawaz

ORGANIZED BY : Department of Electrical Engineering, Jamia
Millia Islamia, New Delhi

TITLE : Writing and Publishing of Quality Research
Articles and Ethics of Research
(WPQRAER-2022)

DATE : 21 to 25 February, 2022

ATTENDED BY : Jitendra Singh
ORGANIZED BY : SKIT, Jaipur

TITLE : Modelling and Simulation in Engineering Applications (MSEA 2022)
DATE : 22 to 26 March, 2022
ATTENDED BY : Jitendra Singh
ORGANIZED BY : SKIT, Jaipur.

TITLE : Tomorrow's Electrical Power Grid: Challenges, Trends and Upcoming Paradigms
DATE : 3 to 7 January, 2022
ATTENDED BY : Jyotsna Singh
ORGANIZED BY : SKIT, Jaipur

TITLE : Student Learning Assessment – STTP-PARAKH
DATE : 22 November to 19 December, 2021
ATTENDED BY : Virendra Swaroop Sangtani
ORGANIZED BY : Construction Industry Development Council (CIDC)

WORKSHOPS ATTENDED

TITLE : Universal Human Values: A Step towards Holistic Development
DATE : 11 to 15 November, 2021
ATTENDED BY : Abhishek Gupta
ORGANIZED BY : UHV& EC, SKIT, Jaipur

TITLE : Materials Fabrication & Characterization Techniques
DATE : 24 to 25, January, 2022
ATTENDED BY : Kavita Jain
ORGANIZED BY : Department of Physics, SKIT, Jaipur

TITLE : Covid Care
DATE : 19 to 21 July, 2021
ATTENDED BY : Abhishek Gupta
ORGANIZED BY : Universal Human Values & Ethics Committee, SKIT, M & G, Jaipur

TITLE : Virtual Labs
DATE : 29 July, 2021
ATTENDED BY : Abhishek Gupta
ORGANIZED BY : SKIT, Jaipur in association with IIT Delhi and Ministry of Education

SEMINARS / WEBINARS ATTENDED

TITLE : Charging Infrastructure to Enable Electrified Transportation
DATE : 5 February, 2022
ATTENDED BY : Jitendra Singh
ORGANIZED BY : SKIT, Jaipur

TITLE : Fundamentals of Power Electronics
DATE : 10 February, 2022
ATTENDED BY : Jitendra Singh
ORGANIZED BY : SKIT, Jaipur

TITLE : A Seminar Series on Recent Advancement in Rural Electrification (RARE-2022)
DATE : 15 to 16 April, 2022
ATTENDED BY : Virendra Swaroop Sangtani
ORGANIZED BY : Department of Electrical Engineering, SKIT, Jaipur

NPTEL /mooKIT / IITBX / SWAYAM

COURSES COMPLETED

COURSE/ TOPIC : Principle of Electrical Science
COMPLETED BY : Kavita Jain
DURATION & CATEGORY : July to December, 2021 (12 -week).

COURSE/ TOPIC : Fundamental of Electrical engineering
COMPLETED BY : Kavita Jain
DURATION & CATEGORY : July to October, 2021 (12 -Week).

EXPERT TALK DELIVERED

TITLE : Complexities with Electrical Transportation Drives
DATE & VENUE : February, 2022. FDP on Recent Advancements in electrical transportation technologies at Vivekananda Institute of Technology, Jaipur
DELIVERED BY : Virendra Swaroop Sangtani

TITLE : Well-structured Thesis/Research report
DATE & VENUE : 23 February, 2022. STTP on Writing and Publishing of Quality Research Articles and Ethics of Research at SKIT, Jaipur
DELIVERED BY : Virendra Swaroop Sangtani

TITLE : Choosing Publishing Platform for Your Research: Performance Indicators of Journals
DATE & VENUE : 21 to 25 February, 2022. STTP on Writing

**SUCCESS IS NOT FINAL;
FAILURE IS NOT FATAL:
IT IS THE COURAGE TO CONTINUE
THAT COUNTS.**

WINSTON S. CHURCHILL

and Publishing of Quality Research Articles and Ethics of Research (WPQRAER-2022) at SKIT, Jaipur.

DELIVERED BY : Akash Saxena

TITLE : Introduction to Minitab and Demonstration
DATE & VENUE : 22 to 26 March, 2022. STTP on Modelling and Simulation in Engineering Applications (MSEA -2022) at SKIT, Jaipur.

DELIVERED BY : Akash Saxena

TITLE : A Comprehensive Analysis of MCP Prediction Models

DATE & VENUE : 20 to 24 September, 2021. SKIT, Jaipur

DELIVERED BY : Akash Saxena

TITLE : Covid-19: A Pandemic or Infodemic? (A Forecaster's Perspective)

DATE & VENUE : 25 to 26 September, 2021. PSIT College of Engineering, Kanpur.

DELIVERED BY : Akash Saxena

TITLE : Covid Prediction Models based on Grey Machine Learning

DATE & VENUE : 4 January, 2022. SKIT, Jaipur

DELIVERED BY : Akash Saxena

TITLE : OBE's Performance Indicators

DATE & VENUE : 11 January, 2022. SKIT, Jaipur

DELIVERED BY : Akash Saxena

TITLE : Indian Energy Scenario with Energy Conservation and Energy Efficiency

DATE & VENUE : 10 December, 2021. Vivekananda Institute of Technology, Jaipur

DELIVERED BY : Virendra Swaroop Sangtani

TITLE : Covid-19: A Pandemic or Infodemic? (A Forecaster's Perspective)

DATE & VENUE : 25 September, 2021. National Conference on Documenting Innovation and Creativity in Engineering (DICE 2021)

DELIVERED BY : Akash Saxena

TITLE : A Comprehensive Analysis of MCP Prediction Model

DATE & VENUE : 21 September, 2021. In FDP on Techno Economic Assessment of Flexibility Competency in Deregulated Power System.

DELIVERED BY : Akash Saxena

SESSION CHAIRED

SESSION ON : Advances in Computational Intelligence for power Systems

CHAIRD BY : Virendra Swaroop Sangtani

DATE & VENUE : 28 to 29 March, 2022 at SKIT, Jaipur

SESSION ON : Electrical and Electronics National Online Conference on Documenting Innovation and Creativity in Engineering (DICE-2021)

CHAIRD BY : Akash Saxena

DATE & VENUE : 25 September, 2021 National Online Conference at SIT College of Engineering of Kanpur

M.TECH. SUPERVISED

DISSERTATION TOPIC : Design and Testing of Photo-Voltaic Voltage Controller with Real Time Unsymmetrical Partial Shading and Uncertain Cloudy Weather Conditions

NAME OF STUDENT : Raghuraj Kumar

GUIDED BY : Bharat Modi, Baibhav Bishal

DISSERTATION TOPIC : Available Transfer Capability Determination of Transmission Lines

NAME OF STUDENT : Shweta Meena

GUIDED BY : Kavita Jain

DISSERTATION TOPIC : Application and Development of Amended Firefly Algorithm for Congestion Management in Deregulated Environment

NAME OF STUDENT : Sneha Meena

GUIDED BY : Kavita Jain

DISSERTATION TOPIC : Intelligent Harmonic Estimator Design by Atom Search Optimization

NAME OF STUDENT : Aishwarya Mehta

GUIDED BY : Akash Saxena

DISSERTATION TOPIC : A few Investigations on Transmission Expansion Planning by Teaching Learning based Optimization Algorithm

NAME OF STUDENT : Jitesh Jangid

GUIDED BY : Akash Saxena

DISSERTATION TOPIC : An Improved Loss Sensitivity Approach for Optimal Allocation of DG at different Penetration Level

NAME OF STUDENT : Gunjan Sharma
 GUIDED BY : Sarfaraz Nawaz

DISSERTATION TOPIC : A Maximal Cost Saving Approach for Allocation of Capacitor Units in Distribution System using ICA

NAME OF STUDENT : Pramod Jat
 GUIDED BY : Ankush Tandon and Sarfaraz Nawaz

DISSERTATION TOPIC : Numerical Simulation and Assessment of Improved Solar Photovoltaic Maximum Power Point Tracking System using Modified Particle Swarm Optimization

NAME OF STUDENT : Ms. Aditi Kumari Shukla
 GUIDED BY : Abhishek Gupta

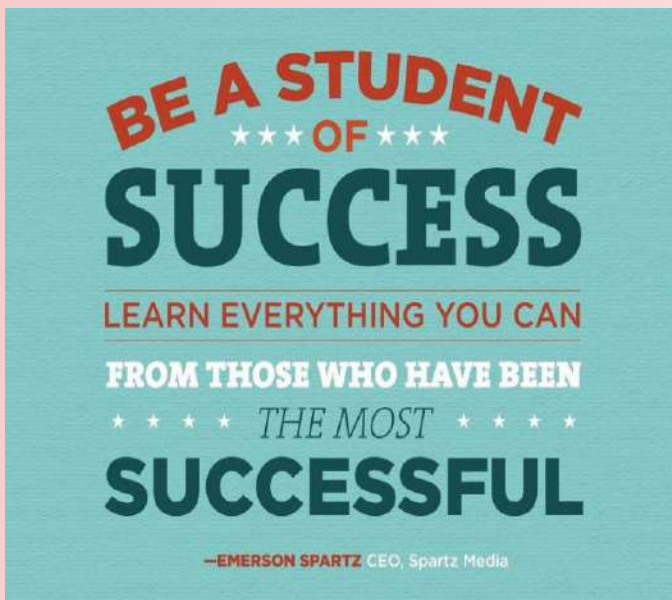
PATENTS PUBLISHED

TITLE : Multi Agent Systems for Intelligent Bidding Price Selection for Profit Accumulation.

NAME : Pooja Jain, Akash Saxena and Shalini Shekhawat

PATENT FILED DATE : Application No. 2021105548; 15 August, 2021

PATENT PUBLISHED DATE : 3 November, 2021



It is a simple feat of scientific electrical engineering – only expensive – blind, faint-hearted, doubting world.

Nikola Tesla

DEPARTMENT OF

CIVIL ENGINEERING

FDP ON 'TRANSPORTATION GEOTECHNICS AND MATERIALS FOR SUSTAINABLE INFRASTRUCTURE'

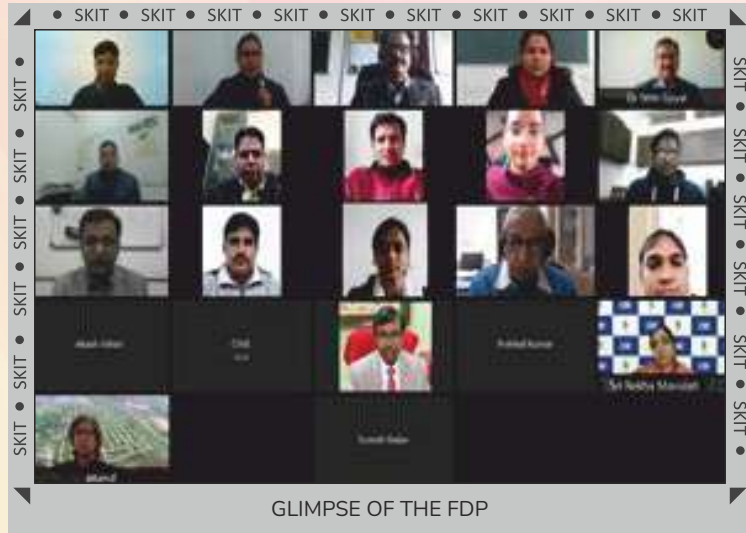
A 5-day Faculty Development Programme on 'Transportation Geotechnics and Materials for Sustainable Infrastructure' was organized jointly by the Department of Civil Engineering and the Centre of Transportation Engineering at SKIT, Jaipur from 13 to 17 December, 2021. Mr. Pradeep Kumar Garg (Chief Engineer, RUDSICO, Jaipur) graced the event as the chief guest. Dr. Mukesh Arora (Head – Faculty Affairs) welcomed the guests and the participants. Prof. D. K. Sharma (Head – Dept. of Civil Engineering) briefed the audience about the FDP. Prof. B. L. Sharma delivered the vote of thanks for the inaugural ceremony. Ten eminent speakers from industry, academics and research institutions shared their knowledge and experiences during the course of the event. More than 370 faculty members from various educational institutes from India and abroad registered for the event. Mr. Nishant Sachdeva, Dr. Prachi Kushwaha and Prof. D. K. Sharma were the coordinators of the event.



FDP ON 'ECOLOGICAL AND ECO-EFFICIENT CONSTRUCTION PRACTICES'

A 5-day Faculty Development Programme on 'Ecological and Eco-efficient Construction Practices' (EECP- 2022) was organized by the Department of Civil Engineering, SKIT M&G, Jaipur in collaboration with the Indian Green Building Council (IGBC) and the Indian Concrete Institute (ICI) from 17 to 21 January, 2022. Dr Nitin Goyal (Principal Scientist and In-charge, CSIR-NEERI, Mumbai) was the chief guest. He explained the importance of

sustainable construction practices. Mr. Anand Mishra (Co-Chair, IGBC Jaipur & Managing Director, Trimurti Colonizers Pvt. Ltd.) informed about the various initiatives of IGBC for sustainable construction. Mr. Mahesh Singhal (Chairman, ICI-RSC) discussed about the various steps taken by ICI for sustainable practices. Ten eminent speakers from industry, academics and research institutions shared their knowledge and experiences during the course of the event. More than 350 faculty members from various educational institutes across India registered for the event. Dr. Bharathi M. delivered the vote of thanks.



GLIMPSE OF THE FDP

'CONCRETE CUBE COMPETITION' FOR STUDENTS ORGANIZED

Concrete Cube Competition for the students of ICI – Student Chapter took place on 8 December, 2021. Cubes were cured for 28 days and tested on 5 January, 2022 in the Concrete Lab of Civil Engineering Department. Students were asked to cast concrete of strength 25 N/mm². Group obtaining strength nearest to 25 N/mm² was declared winner. Pulkit Agrawal of B.Tech VII semester got the first position.



GLIMPSE OF THE COMPETITION

INDUSTRIAL VISIT TO COACHING HUB OF RAJASTHAN HOUSING BOARD

A visit to the Coaching Hub of Rajasthan Housing Board was conducted under the aegis of ICI – Student Chapter on 13 December, 2021. Student members of ICI – Student Chapter visited the site under the supervision of the faculty coordinator Mr. Anirudh Mathur. Students learnt about the necessity of coaching hubs and were also explained about the civil engineering work which was being carried out at the site.



GLIMPSE OF THE INDUSTRIAL VISIT

FDP ON 'EMERGING TRENDS IN INFRASTRUCTURE DEVELOPMENT' (ETID 2021)

The Department of Civil Engineering, SKIT, Jaipur organized one-week RTU (ATU) TEQIP-III sponsored Faculty Development Program on 'Emerging Trends in Infrastructure Development' (ETID-2021) on 25 February, 2021. More than hundred participants from across the globe participated in the event.



GLIMPSE OF THE FDP

The inaugural session was graced by the presence of the guest speaker, Er. Rakesh Srivastava (Senior Vice President, JWI, Infra Ltd.), Er. Harshil K. Trivedi, (BD Head, Chevrox Construction Pvt. Ltd.), Prof. A.K. Dwivedi (RTU Event Coordinator), Mrs. Pooja Jain (Dy Head, Dept. of Civil Engg.), Er. Anirudh Mathur, Dr. Lalit Kumar Gupta, Mr. Kishan Lal Jain, Mr. Ankur Mishra and others.

WEBINAR ON 'CONSTRUCTION PRACTICES'

Department of Civil engineering in collaboration with Shree Cement Ltd. organized a technical webinar on 'Construction Practices' on 25 September, 2021 with an objective to enhance one's knowledge on construction practices. The expert lecture was delivered by Er. Prakash Sharma (Additional General Manager, Shree Cement Ltd.). He mainly focused on common construction negligence which are caused by unsafe scaffolds, ladders and supports, lack of fall protection, improperly operated heavy equipment, defective tools, failure to provide proper lifting equipment, improper braced excavations and exposures to electricity and toxic materials and deformations caused by false designs. 65 students attended the webinar.

WEBINAR ON 'INTRODUCTION TO GREEN BUILDING'

A technical talk on 'Introduction to Green Building' was conducted for the students of B.Tech., Civil Engineering, SKIT, Jaipur on 30 September, 2021.

The technical talk was delivered by Er. Hemant Shrimali (Regional Head, Technical Services, Ultratech Cement Ltd.). He discussed the need and importance of Green Buildings. Students of II-year, III-year and IV- year attended the program.

BOOK CHAPTER PUBLISHED

BOOK : Earthquakes and Structures
AUTHOR/S : M. Bharathi
BOOK CHAPTER : Metro Train-Induced Vibration
Measurement on Buildings, pp 201-202
212, 20 November, 2021
PUBLISHER : Springer, Link

BOOK PUBLISHED

TITLE : Advances in Geotechnics and Structural Engineering, Use of Crushed Waste Glass (CWG) for Partial Replacement of Fine Aggregate in Concrete Production: A Review
AUTHOR/S : Akash Johari
PUBLISHER : Springer, Singapore.

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE : Development of Green Building Sustainability Model.

AUTHOR/S : Jetender Babulal Jangid
PROCEEDING : Proceedings of International Conference on Emerging Trends in Engineering, Science and Technology (ETEST-2022) 6 to 7 May, 2022

TITLE : Effect of Slope Inclination on V-H and V M Capacity Envelope of Strip Foundation on Undrained Clay Slope

AUTHOR/S : Bharathi M.
PROCEEDING : Proceedings of Indian Geotechnical Conference 2021, NIT Tiruchirappalli, 16 to 18 December, 2021

PAPERS PRESENTED IN CONFERENCES

TITLE : Development of Green Building Sustainability model.
AUTHOR/S : Jetender Babulal Jangid
CONFERENCE : Proceedings of International Conference on Emerging Trends in Engineering, Science and Technology (ETEST-2022) 6 to 7 May, 2022

TITLE : Utilization of Marble dust and Fly ash in Composite Mortar as Partial Cement Substitute
AUTHOR/S : Rakesh Choudhary
CONFERENCE : International Conference on Sustainable Materials and Practices for Built Environment (SMPBE-2021). Department of Civil Engineering, Manipal University, Jaipur, 25 to 26 November, 2021

TITLE : Webometric Study on usage of Nanomaterials in Pavement Construction
AUTHOR/S : Prachi Kushwaha, Nishant Sachdeva, Anirudh Mathur
CONFERENCE : International Conference on Advances in Manufacturing Technologies and Application of Artificial Intelligence (ICAMTAAI 2021), October 2021

TITLE : Application of Value Stream Mapping for Waste Elimination: A Case of Construction Equipment Industry
AUTHOR/S : Prachi Kushwaha
CONFERENCE : International Conference on Advances in Manufacturing Technologies and Application of Artificial Intelligence (ICAMTAAI 2021), October 2021

TITLE : Design and Enhancement of City Park Transport Infrastructure Facilities
 AUTHOR/S : Prachi Kushwaha, Anirudh Mathur
 CONFERENCE : Recent Advances in Modelling and Simulation Techniques in Engineering and Sciences (RAMSTES-2021) Manipal University, Jaipur, 8 to 10 December, 2021

ATTENDED BY : Abhishek Jain, Jetender Babulal Jangid, Akash Johari, Anirudh Mathur
 ORGANIZED BY : University of Engineering, Banswara

TITLE : Lateral Response of Short Rigid Pile
 AUTHOR/S : Bharathi M.
 CONFERENCE : International Conference on Recent Advancements in Science, Engineering & Technology, and Management organized by SKIT, 1 to 2 Sept. 2021

TITLE : Ecological and Eco-efficient Construction Practices (EECP – 2022)
 DATE : 17 to 22 January, 2022
 ATTENDED BY : Nishant Sachdeva, Prachi Kushwaha, Jetender Babulal Jangid, Bharathi M.
 ORGANIZED BY : Department of Civil Engineering, SKIT M & G, Jaipur

TITLE : Intellectual Property Rights
 DATE : 18 to 22 January, 2022
 ATTENDED BY : Jetender Babulal Jangid
 ORGANIZED BY : IPR Cell & Department of Management Studies, SKIT, Jaipur

FDPs ATTENDED

TITLE : Materials for Sustainability of Transportation Infrastructure (MSTI 2022)
 DATE : 1 to 5 Feb, 2022
 ATTENDED BY : Abhishek Jain, Kishan Lal Jain, Sitaram Saini
 ORGANIZED BY : Vivekananda Global University

TITLE : Transportation Geotechnics and Materials for Sustainable Infrastructure (TGMSI – 2021)
 DATE : 13 to 17 December, 2021
 ATTENDED BY : Jetender Babulal Jangid, Abhishek Jain
 ORGANIZED BY : Department of Civil Engineering & Centre for Transportation Engineering SKIT, Jaipur

TITLE : Smart use of Renewable Energy Resources for Sustainable Future
 DATE : 21 to 25 February, 2022
 ATTENDED BY : Vikas Vyas, Jetender Babulal Jangid
 ORGANIZED BY : Dept. of ME, SKIT College

TITLE : Recent Advances in Pavement Analysis, Design and Evaluation
 DATE : 20 to 24 September, 2021
 ATTENDED BY : Prachi Kushwaha
 ORGANIZED BY : Indian Institute of Technology Jodhpur, AICTE Training and Learning (ATAL) Academy

TITLE : Short Term Training Program on Writing and Publishing of Quality Research Articles and Ethics of Research
 DATE : 21 to 25 February, 2022
 ATTENDED BY : Pooja Jain
 ORGANIZED BY : Dept. of EE, SKIT College

TITLE : Alternate Building Construction Materials towards Green Environment
 DATE : 25 to 29 October, 2021
 ATTENDED BY : Rakesh Choudhary
 ORGANIZED BY : Department of Civil Engineering, Government College of Engineering, Bodinayakanur

TITLE : Advancement of Technology in Civil Engineering
 DATE : 28 Feb to 3 March, 2022
 ATTENDED BY : Ankur Mishra, Gaurav Gupta, Kishan Lal Jain, Nishant Sachdeva, Rakesh Choudhary, Vikas Vyas, Abhishek Jain, Jetender Babulal Jangid, Akash Johari
 ORGANIZED BY : Anand International College

TITLE : Recent Advances in Earthquake Engineering
 DATE : 20 to 24 September, 2021
 ATTENDED BY : Bharathi M.
 ORGANIZED BY : ATAL – AICTE

TITLE : Recent Trends and Advancements for Sustainable Development
 DATE : 8 to 12 March, 2022

TITLE : Behaviour of Structures subjected to Extreme Events (Fire/Blast/ Earth quake/Wind)

DATE : July to October, 2021
ATTENDED BY : Pooja Jain
ORGANIZED BY : VIT, Channi
TITLE : Design of Reinforced Concrete Structures

DATE : July to October, 2021
ATTENDED BY : Abhishek Jain
ORGANIZED BY : NPTEL – AICTE

TITLE : Ground Improvement
DATE : July to October, 2021
ATTENDED BY : Bharathi M.
ORGANIZED BY : NPTEL – AICTE

NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : Concrete Technology
COMPLETED BY : Rakesh Choudhary
DURATION & CATEGORY : January to April, 2022 (12 -week).
Awarded (Topper in 2%) Sliver Elite Certificate.

COURSE/ TOPIC : Module 5: Technology Enabled Learning & Life Long Self Learning
COMPLETED BY : Pooja Jain
DURATION & CATEGORY : January to March, 2022 (8 -week).

COURSE/ TOPIC : Module 6: Student Assessment and Evaluation
COMPLETED BY : Pooja Jain
DURATION & CATEGORY : January to March, 2022 (8 -week).

COURSE/ TOPIC : Module 7: Creative Problem Solving Innovation and Meaningful R & D
COMPLETED BY : Pooja Jain
DURATION & CATEGORY : January to March, 2022 (8 -week).

COURSE/ TOPIC : Module 8: Institutional Management & Administrative Procedures
COMPLETED BY : Pooja Jain
DURATION & CATEGORY : January to March, 2022 (8 -week).

COURSE/ TOPIC : Design of Reinforced Concrete Structures
COMPLETED BY : Abhishek Jain
DURATION & CATEGORY : July to October, 2021 (12- week).
Awarded Elite Certificate

COURSE/ TOPIC : Design of Reinforced Concrete Structures
COMPLETED BY : Sunita Tolani
DURATION & CATEGORY : July to October, 2021 (12- week).
Awarded Gold Certificate.

COURSE/ TOPIC : Ground Improvement
COMPLETED BY : Bharathi M.
DURATION & CATEGORY : July to October, 2021 (12 -week).
Awarded Elite Certificate

M.TECH. SUPERVISED

DISSERTATION TOPIC : Comparative Analysis of Rheological Properties of Fresh and Aged Binders

NAME OF STUDENT : Apoorva Dwivedi
GUIDED BY : Prachi Kushwaha & Anirudh Mathur

DISSERTATION TOPIC : Evaluation of Existing Pedestrian Facilities and its Potential Improvements on a Selected Urban Stretch

NAME OF STUDENT : Piyush Pashupati Pandey
GUIDED BY : Nikhil Kumar Sharma & Anirudh Mathur

DISSERTATION TOPIC : Bus Rapid Transit in Jaipur: An Evaluation of Performance, Design Features, Safety Audit and Impacts

NAME OF STUDENT : Vipul Vikram Mathur
GUIDED BY : Anirudh Mathur

DISSERTATION TOPIC : Safety Analysis and Design of Traffic Calming Plan: A Case Study of Jagatpura Mahal Road

NAME OF STUDENT : Sanchi Rewar
GUIDED BY : Anirudh Mathur & Prachi Kushwaha

Ph.D. AWARDED

THESIS TITLE : Strength, Durability Properties and Microstructure Investigation of Standard Concrete Containing Wollastonite Fibre and Granite Waste as Partial Replacement of Cement and Fine Aggregate

Ph.D. AWARDED TO : Ajay Kumar Mandrawaliya
SUPERVISED BY : Dr. Arun Gaur
INSTITUTE : Malviya National Institute of

YEAR : 2022
Ph.D. AWARDED TO : Rakesh Choudhary
SUPERVISED BY : Dr. Rajesh Gupta, Prof. (HAG) Ravindra Nagar
INSTITUTE : Malviya National Institute of Technology (MNIT) Jaipur.
YEAR : 2022

Ph.D. AWARDED TO : Abhishek Jain
SUPERVISED BY : Dr. Rajesh Gupta & Dr. Sandeep Choudhary
INSTITUTE : MNIT, Jaipur.
YEAR : 11 October, 2021

Ph.D. AWARDED TO : Kishan Lal Jain
SUPERVISED BY : Dr. Gaurav Sancheti
INSTITUTE : Manipal University, Jaipur.
YEAR : 2021

EXPERT TALK DELIVERED

TITLE : Intelligent Transport System in Road Safety Management
DATE & VENUE : 29 May, 2022. At Road Safety Auditor Certification Program Organized in Collaboration with MoRTH & IRC at MNIT, Jaipur
DELIVERED BY : Anirudh Mathur

TITLE : State Level Capacity Building Workshop on Road Safety Management & Crash Investigation
DATE & VENUE : 4 to 14 April, 2022. At Bhubaneswar, Behrampur and Rourkela in Orissa
DELIVERED BY : Anirudh Mathur

TITLE : Capacity Building Workshop on Road Safety Management, Traffic Engineering & Enforcement
DATE & VENUE : 30 to 31 May 2022. At Police Line,

DELIVERED BY : Anirudh Mathur
Ajmer, Rajasthan

WORKSHOPS ATTENDED

TITLE : Materials Fabrication & Characterization Techniques
DATE : 24 to 28 January, 2022
ATTENDED BY : Abhishek Jain
ORGANIZED BY : Department of Physics, SKIT M & G Jaipur

TITLE : Inculcating Universal Human Values in Technical Education
DATE : 19 to 13 July, 2021
ATTENDED BY : Prachi Kushwaha
ORGANIZED BY : AICTE, New Delhi

TITLE : Inculcating Universal Human Values in Technical Education
DATE : 9 to 13 August, 2021
ATTENDED BY : Tolani, Ms. Pooja Jain, Akash Johari
ORGANIZED BY : AICTE, New Delhi

PAPER REVIEWED

TITLE : Innovative Technologies for Clean and Sustainable Development
REVIEWER NAME : Bharathi M.
CONFERENCE : International Conference on Innovative Technologies for Clean and Sustainable Development



Rishabh Kumar Kanther, 2nd Sem, AI

MANAGEMENT STUDIES

FDP ON 'INTELLECTUAL PROPERTY RIGHTS' ORGANIZED

A five-day Faculty Development Program on 'Intellectual Property Rights' was organized jointly by IPR Cell & DMS, SKIT, from 18 to 22 January, 2022. The inaugural session began with the welcome address by Prof. Archana Saxena, who shared the success story of SKIT. Chief guest, Professor Prabuddha Ganguli, CEO, Vision – IPR, Mumbai, India threw light on various aspects of IPR. He is a leading international expert on IPR and a consultant to the World Intellectual Property Organization (WIPO) for IPR Capacity Building Programmes in developing countries. Dr. Savita Choudhary, Convener IPR Cell, SKIT briefed about the objectives of the Cell and shared the achievements of the Cell. Prof. Krishna Dayal Sharma of English Department proposed the vote of thanks.



Glimpse of FDP

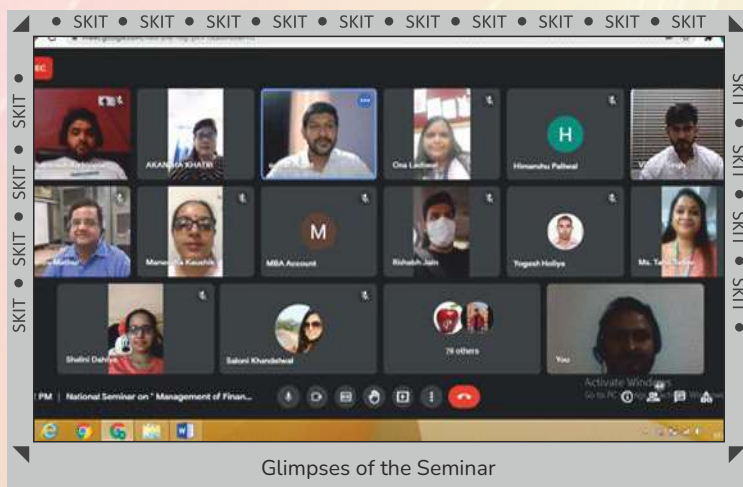
Day 1 began with the session of Dr Harlal Singh Mali, Convener IPR Cell, Department of ME, MNIT, Jaipur. He explained the timeline, process and legal requirements of IPR and also covered various tangible and intangible advantages of IPR. On the second day, Dr Jitender Sharma, Assistant Controller of Patent and Design, NIPAM Office, Govt. of India, threw light on the origin and evolution of IPR and the process of applying for IPR in India. On the third day, Dr Puneet Bafna, Associate Professor, Amity Law School, Amity University, Jaipur, shared his knowledge on Trademarks and Brand Building. He also covered various ethical and non-ethical practices which we encounter in our daily lives with respect to the use of registered properties under IP Act. Day 4 began with an interactive session of Dr Vikas Asawat, Patent and Trade Mark Attorney, Kota, who guided the participants on analysing innovation disclosure and drafting patent specifications. Day 5 was

opened by Dr Puneet Bafna, Associate Professor, Amity Law School, Amity University, Jaipur. He discussed the current law on copyright and common pitfalls & misunderstandings about copyright. This was followed by an open house panel discussion. More than 300 faculty members from different institutes of the country participated in this FDP. Dr Neha Janu, Dr Sunita Gupta & Dr Ravish Pandey were the FDP coordinators.

NATIONAL SEMINAR ON 'MANAGEMENT OF FINANCIAL RESOURCES: NEED OF THE TIME'

DMS, SKIT, Jaipur organized a three-day national seminar on 'Management of Financial Resources: Need of the Time', from August 17 to 19, 2021. Prof. S. K. Mathur, Head of the Department, welcomed the guests and the participants. Dr. Savita Choudhary (Organizing Secretary), briefed about the theme, need and objectives of the seminar.

On Day 1, Shri Suhas Rajput apprised the participants of the management of currency in the present time and also discussed about the new opportunities and trending employability sources amidst the pandemic. On Day 2, Amit Shah (CA) enlightened the students with the basic concepts underlying the management of money and monetary assets, planning and implementation of financial decisions. On Day 3, Mr. Shamsheer Singh told the participants that financial education is a basic life skill which has a direct impact on individual welfare. Learning personal finance and other important money skills at an early age provide plenty of opportunities to us to apply them in real life. The Seminar concluded with the valedictory session wherein certificates were distributed to all the participants. Dr. Ravish Pandey, the convener of the event proposed the vote of thanks.



Glimpses of the Seminar

It always seems impossible until it's done.
- Nelson Mandela

FDP ATTENDED

TITLE : Advanced Research Methodology and How to Write Quality Research Papers

DATE : 24 to 28 August, 2021

ATTENDED BY : Savita Choudhary, Ona Ladiwal, Atul Gupta, Maneesha Kaushik, Ravish Pandey, Mansi Meel.

ORGANIZED BY : SKIT, Jaipur

STTP ATTENDED

TITLE : Capacity Building Programme on Data Analysis and Research Methodology in Social Sciences

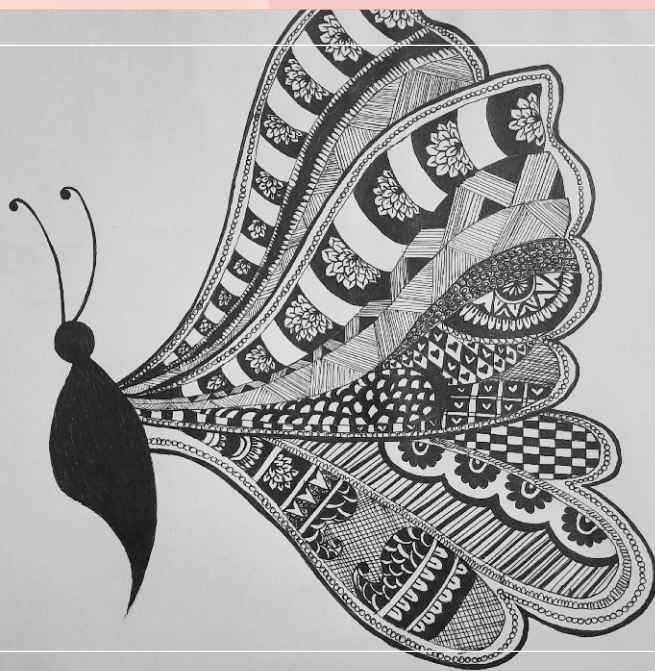
DATE : 3 to 14 September, 2021

ATTENDED BY : Priyanka Bhaskar

ORGANIZED BY : Alagappa University, Karaikudi, Tamil Nadu, Sponsored by Indian Council of Social Science Research (ICSSR)

You get what
you focus on.

David Justus



Dhruvi Goyal, 4th Sem, CSE

DEPARTMENT OF

BASIC SCIENCES AND HUMANITIES

DEPARTMENT OF ENGLISH

ISTTP ON 'DEVELOPING SOFT SKILLS FOR EMPLOYABILITY'

The Department of English, SKIT organized seven-day International Short Term Training Programme (ISTTP-2021) for students on 'Developing Soft skills for Employability' from 6 -12 August, 2021. The programme mainly aimed at adding value education to any technical qualification which may in turn help the students to acquire competence to secure jobs in any area related to engineering & in other service related industries.

The Coordinators of the ISTTP were Dr. Neha Purohit, Head, Department of English, Dr. Krishna Sharma and Dr. Nidhi Sharma. The chief guest and the keynote speaker of the programme was Mr. Kartik Bajoria, a writer, columnist and literary moderator. The guest of honour and the second speaker was Dr. Shipra Malik from Al Baha University, Saudi Arabia. Mr. Bajoria in his address on 'Surviving Atrocities through Soft Skills' delineated the value of soft skills from his own life and musings. Dr. Shipra Malik in her talk on 'Importance of Metacognition and Non-Verbal Communication in 21st Century Professional Success and Job Employment Scenario' wittily brought to the fore some interesting facets of nonverbal communication.

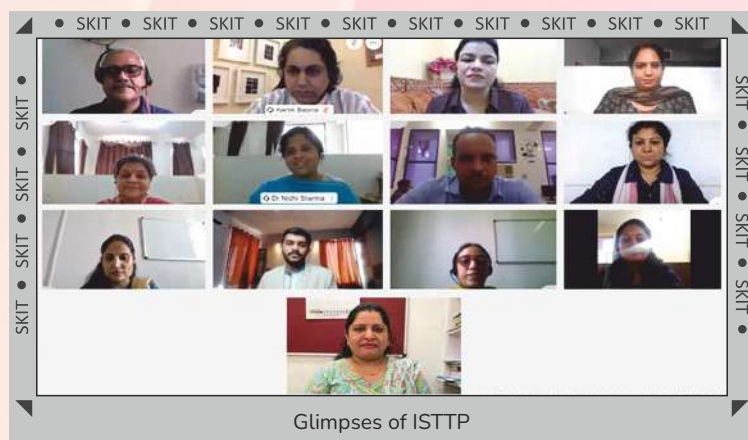
The other speakers were- Dr. Ritu Pareek, Assistant Professor, BIT, Jaipur; Dr. Pulak Avinashi, Assistant Professor, Amity University, Noida; Prof. Chandrasekharan Praveen, Former Principal, Institute of Advanced Study, Thrissur, Kerala; Dr. Preeti Bhatt, Associate Professor, Department of HSS, MNIT Jaipur; Dr. Ranjeet Kaur, Assistant Professor, St. Xaviers College, Jaipur; Dr Niraja Saraswat, Assistant Professor, MNIT, Jaipur; Ms. Jyoti Kathju, Life coach, Trainer soft skills from Jodhpur; Dr. Chithra G.K, Vellore Institute of Technology, Chennai; Dr. Alpna, Christ University, Lavasa; Dr. Aditi Dev, Assistant Professor, Amity University, Jaipur.

It always seems impossible until it's done.

The last session on day 7 was marked as the valedictory ceremony. The chief guest of the ceremony was Ms. Manika Singh, Director,

- Nelson Mandela

Outshine. Ms. Singh answered all the possible questions received from students in a very pragmatic manner. The event ended with a video on the events of the last six days, and a vote of thanks by Dr. Neha Purohit, Professor and Head, Department of English.



Dr Neha Purohit, HOD, Dept. of English and Dr Nidhi Sharma were the convenors of the Winter School.



WORKSHOP FOR LIBRARY STAFF MEMBERS ORGANIZED

The Department of English organized a fifteen day training session for the staff members of the Central Library from 12 to 26 April, 2022. The training focussed on basic communication skills, formal body language, grooming and etiquette required at the professional space. The training encapsulated practice sessions along with simple assignments.



BOOK CHAPTERS PUBLISHED

BOOK : Re-mapping the Centre and the Periphery: Studies in Literature & Culture
 AUTHOR/S : Dr. Nidhi Sharma
 BOOK CHAPTER : Women, Cultural Identity and social Class in Sudha Murthy's Maha Shweta
 PUBLISHER : Shanlax Publications, Madurai, Chennai, June, 2022

BOOK : Re-mapping the Centre and the Periphery: Studies in Literature & Culture
 AUTHOR/S : Ms. Divya Mathur
 BOOK CHAPTER : Real Person Slash: What's the Truth and Does it Even Matter?
 PUBLISHER : Shanlax Publications, Madurai, Chennai

BOOK : English Language Teaching: Past, Present & Future
 AUTHOR/S : Nidhi Sharma
 BOOK CHAPTER : Novel Trends in English Language Teaching
 PUBLISHER : Shanlax Publications, Madurai

BOOK : English Language Teaching: Past, Present & Future
 AUTHOR/S : Sheeba Anjum
 BOOK CHAPTER : Techniques and Challenges for Teaching English as an Additional Language in India
 PUBLISHER : Shanlax Publications, Madurai

BOOK : Exploring English language in India: Theory & Practice

WINTER SCHOOL FOR STUDENTS ON 'ENHANCING LSRW SKILLS' ORGANIZED

The department of English organized a Winter School on 'Enhancing LSRW Skills' from 1 to 15 February, 2022. The broad areas targeted were -Enhancing Listening through Story-telling, Public Speaking, Creative Thinking, Creative Writing, Reading for Competitive Exams, Corporate Communication, Writing for Social Media and Impromptu Speaking Challenge. It also included brief training sessions on the aforesaid skills from the academic and professional dimensions.

AUTHOR/S : Nidhi Sharma, Shikha Agarwal
BOOK CHAPTER : Meena Kandaswamy's "The Gypsy Goddess": A Study of Language Structures
PUBLISHER : Shanlax Publication, September 2021
BOOK : New Directions in English language Teaching
AUTHOR/S : Shikha Agarwal, Nidhi Sharma
BOOK CHAPTER : Coping with the Pandemic: E-learning Pedagogies for the Acquisition of the Second Language
PUBLISHER : Shanlax Publication, May 2021

BOOKS EDITED

TITLE : Re-mapping the Centre and the Periphery: Studies in Literature & Culture
EDITOR/S : Dr. Nidhi Sharma
PUBLISHER : Shanlax Publications, Madurai, Chennai, June, 2022 ISSN: 978-93 94899-01-8
TITLE : English Language Teaching: Past, Present & Future
EDITOR/S : Nidhi Sharma & Prabhavathy
PUBLISHER : Shanlax Publications, Madurai
TITLE : New Directions in English language Teaching
EDITOR/S : Nidhi Sharma
PUBLISHER : Shanlax Publication, May 2021, ISSN: 978-93-91373-97-9
TITLE : Exploring English language in India: Theory & Practice
EDITOR/S : Nidhi Sharma, Shikha Agarwal, Irum Alvi
PUBLISHER : Shanlax Publication, September 2021, ISSN: 978-93-91373-97-9

PAPERS PRESENTED IN CONFERENCES

TITLE : Monitoring the Study: Addressing Ethical Practices in Research
AUTHOR/S : Nidhi Sharma
CONFERENCE : International Conference on Research Skills for Research Impetus, VIT, Chennai
TITLE : A Critical Insight into the Role of Artificial Intelligence (AI) in Tourism and Hospitality Industries
AUTHOR/S : Krishna Dayal Sharma, Priyanka Bhaskar

CONFERENCE : Ninth International Conference in the Series of Youth 2025, on Envisioning India's Future Growth, Innovation, Sustainability, Happiness & Wellbeing, Jaipuria Institute of Management, Jaipur, February, 2022

FDP ATTENDED

TITLE : Pedagogical Shift from Text to Hypertext: Language and Literature to the Digital Narratives
DATE : 13 to 17 September, 2021
ATTENDED BY : Nidhi Sharma
ORGANIZED BY : University of Malaysia

WORKSHOP ATTENDED

TITLE : Bridging Industry and Academia in Language Studies
DATE : 15 to 21 July, 2021
ATTENDED BY : Neha Purohit, Sheeba Anjum
ORGANIZED BY : Amity University, Jaipur

WINTER SCHOOL ATTENDED

TITLE : Enhancing LSRW Skills in English
DATE : 1 to 15 February, 2022
ATTENDED BY : Nidhi Sharma, Neha Purohit, Krishna Sharma, Sheeba Anjum Divya Mathur, Anupriya Singh, Lalit Gehlot, Geetika Patni, Shikha Aggarwal
ORGANIZED BY : SKIT, Jaipur

EXPERT TALK DELIVERED

TITLE : Common Errors in Dealing with English
DATE & VENUE : 7 March, 2022. CEG, Jaipur
DELIVERED BY : Nidhi Sharma
TITLE : Interview Techniques
DATE & VENUE : 9 March, 2022. CEG, Jaipur
DELIVERED BY : Nidhi Sharma
TITLE : Personality Development and Grooming
DATE & VENUE : 10 March, 2022. CEG, Jaipur
DELIVERED BY : Neha Purohit
TITLE : Confidence Building
DATE & VENUE : 11 March, 2022. CEG, Jaipur
DELIVERED BY : Neha Purohit

COURSES MENTORED

MENTOR/S	:	COURSE/S
Neha Purohit, Sheeba Anjum	:	Speaking Effectively
Neha Purohit, Sheeba Anjum	:	Soft Skills
Nidhi Sharma	:	Enhancing Soft Skills and Personality Development

NPTEL / SWAYAM/ COURSERA COURSES COMPLETED

COURSE/TOPIC	:	Soft Skills
COMPLETED BY	:	Neha Purohit, Sheeba Anjum
DURATION & CATEGORY	:	July to October, 2021 (12- week). Awarded Gold Medal

COURSE/TOPIC	:	Soft Skills
COMPLETED BY	:	Krishna Dayal Sharma
DURATION & CATEGORY	:	July to October, 2021 (12- week). Awarded Silver Medal

COURSE/TOPIC	:	Enhancing Soft Skills and Personality Development
COMPLETED BY	:	Nidhi Sharma
DURATION & CATEGORY	:	July to September, 2021 (8 -week). Awarded Silver Medal

MOOC DESIGNED BY FACULTY

FACULTY	:	Neha Purohit
COURSE	:	English for Personal and Professional Development for IIIT, Kota in association with Govt. of Rajasthan

Ph.D. AWARDED

THESIS TITLE	:	Separate Lives: The Theme of Isolation in the Select Works of J.M. Coetzee
Ph.D. AWARDED TO	:	Sheeba Anjum
SUPERVISED BY	:	Prof. Nupur Tandon
INSTITUTE	:	MNIT, Jaipur
YEARS	:	2021

“You have to dream before your dreams can come true.”

DEPARTMENT OF CHEMISTRY

INTERNATIONAL CONFERENCE ON 'ENVIRONMENTAL POLLUTION ABATEMENT AND DISASTER MANAGEMENT' (ICEPADM-2021)

A three-day International Conference on 'Environmental Pollution Abatement and Disaster Management' (ICEPADM-2021) was organized by the Department of Chemistry, Swami Keshvanand Institute of Technology, Management & Gramothan in association with Indian Desalination Association from 18 to 20 October, 2021. In the inaugural session, the Chief Guest of the conference Dr. Anupama Kumar, Senior Scientist, CSIRO, Adelaide, South Australia in her keynote address emphasized that sources of pollution are needed to be focused upon and the appropriate controlling measures should be adopted. The guests of honour were Prof. P. K. Joshi, School of Environmental Science, JNU, New Delhi and Prof. S.P. Chaurasia, President, InDA.

The eminent speakers in the 5 technical sessions were Prof. Ajay Kr. Dalai, Univ. of Saskatchewan Canada; Prof. Ajay Bansal, NIT Jalandhar; Prof. V. C. Srivastava, IIT, Roorkee; Prof. Amrit Pal Toor, UICT, Panjab Univ. Chandigarh; Dr. Shraddhakar, Worley Engg., Charleston, USA; Dr. Ramprasad, Central Univ. Bihar; Mr. Sriram Kulkarni, Director Technochem group, Mumbai; Dr. S.P. Mehra, Director Rajputana society of Natural history and Dr. Garima Prajapat from Govt. Engg. College Bikaner. All the speakers mainly focused upon various pollution mitigation techniques and management of both natural and anthropogenic disasters.

The Conference Chairpersons were Prof. Sangeeta Vyas & Dr. Madhu Agarwal Vice- President InDA. Convenors were Prof. Vinita Sharma & Dr. Dipaloy Datta, Hony. Secretary, InDA. Co-Covenors were Dr. Sharda Soni (HoD) & Prof. Archana Saxena and Organizing Secretaries were Dr. Swati Joshi, Dr. Anurag Sharma and Dr. Poonam Ojha.



Glimpse of the Conference

BOOK CHAPTERS PUBLISHED

BOOK : Applications of Advanced Nanomaterials for Water Remediation
AUTHOR/S : Swati Joshi, Meena Nemiwal
BOOK CHAPTER : Introduction-Nanomaterials and their Role in Water Remediation 2022
PUBLISHER : CRC Press

BOOK : Applications of Advanced Nanomaterials for Water Remediation
AUTHOR/S : Poonam Ojha, Meena Nemiwal
BOOK CHAPTER : Disinfection of Water by Ecofriendly Nanomaterials, 2022
PUBLISHER : CRC Press

PAPERS PRESENTED IN CONFERENCES

TITLE : Bio-fuels: Indian Scenario
AUTHOR/S : Swati Joshi
CONFERENCE : International Conference on Environmental Pollution Abatement and Disaster Management, Department of Chemistry, SKIT, Jaipur, 18 to 20 October, 2021

TITLE : Green Chemical Methods for Reduction of Ethyl Levulinate
AUTHOR/S : Poonam Ojha
CONFERENCE : International Conference on Environmental Pollution Abatement and Disaster Management, Department of Chemistry, SKIT, Jaipur, 18 to 20 October, 2021

TITLE : Study of Antimicrobial Property of Tulsi and Neem for Water
AUTHOR/S : Archana Saxena
CONFERENCE : International Conference on Environmental Pollution Abatement & Disaster Management (ICEPADM-2021), Organized by Dept. of Chemistry, SKIT, 18 to 20 October 2021

TITLE : Application of Nanoparticles
AUTHOR/S : Sharda Soni
CONFERENCE : International Conference on Environmental Pollution Abatement & Disaster Management (ICEPADM-2021), Organized by Dept. of Chemistry, SKIT, 18 to 20 October 2021

TITLE : Green Chemical Methods for Reduction of Ethyl Levulinate
AUTHOR/S : Poonam Ojha

CONFERENCE : International Conference on Interdisciplinary Approaches in Science, Engineering and Humanities organized by Applied Science Department, SIRTE, Bhopal, 29 to 30 July 2021

TITLE : Synthesis and Biological Evaluation of some Ethoxyphthalimide Derivatives of Thiazolopyrimidines and Thiazoloisoxazoles

AUTHOR/S : Swati Joshi
CONFERENCE : International Conference on Interdisciplinary Approaches in Science, Engineering and Humanities organized by Applied Science Department, SIRTE, Bhopal, 29 to 30 July 2021

FDPs ATTENDED

TITLE : Computational Mathematics and Recent Advances in Management Principles

DATE : 15 to 19 November, 2021

ATTENDED BY : Swati Joshi, Poonam Ojha

ORGANIZED BY : SKIT, Jaipur

TITLE : Assessment and Evaluation in Higher Education

DATE : 14 to 20 July, 2021

ATTENDED BY : Sharda Soni

ORGANIZED BY : Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi

TITLE : Outcome-Based Education: A Paradigm for Assessment & Accreditation

DATE : 24 to 28 Aug, 2021

ATTENDED BY : Archana Saxena, Poonam Ojha

ORGANIZED BY : SKIT Jaipur

TITLE : Executive Development Programme on Leadership & Management Skills

DATE : 25 to 27 Aug, 2021

ATTENDED BY : Archana Saxena

ORGANIZED BY : Manipal University Jaipur

TITLE : Inculcating Universal Human Values in Technical Education

DATE : 12 to 17 July, 2021

ATTENDED BY : Poonam Ojha, Swati Joshi

ORGANIZED BY : AICTE

TITLE : Covid Care Workshop
DATE : 19 to 21 July, 2021
ATTENDED BY : Poonam Ojha
ORGANIZED BY : SKIT, Jaipur

TITLE : Code of Conduct and Professional Ethics
DATE : 16 to 21 August, 2021
ATTENDED BY : Poonam Ojha, Swati Joshi
ORGANIZED BY : SKIT, Jaipur

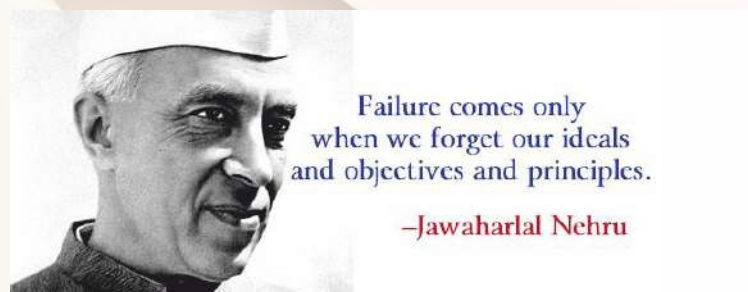
TITLE : Curriculum Development, Research and Publication Ethics
DATE : 2 to 9 August, 2021
ATTENDED BY : Poonam Ojha, Swati Joshi
ORGANIZED BY : SRM Institute of Science and Technology, Chennai.

TITLE : Recent Trends in Green Technologies for Sustainable Development
DATE : 13 to 17 September, 2021
ATTENDED BY : Poonam Ojha, Swati Joshi
ORGANIZED BY : University College of Engineering & Technology, Bikaner.

TITLE : Frontiers of Green Technology: Sustainable Engineering
DATE : 21 to 25 September, 2021
ATTENDED BY : Poonam Ojha, Swati Joshi
ORGANIZED BY : University College of Engineering & Technology, Bikaner.

TITLE : Outcome-Based Education: A Paradigm for Assessment & Accreditation organized by Department of CS and IT, SKIT
DATE : 24 to 28 August, 2021
ATTENDED BY : Swati Joshi
ORGANIZED BY : SRM Institute of Science and Technology, Chennai.

TITLE : Advances in Pollution Control Technologies and Sustainable Development
DATE : 2 to 6 August, 2021
ATTENDED BY : Vinita Sharma
ORGANIZED BY : MNIT, Jaipur



STTPs ATTENDED

TITLE : Disaster Management
DATE : 23 to 28 August, 2021
ATTENDED BY : Vinita Sharma
ORGANIZED BY : UGC – Human Resource Development Centre, Jawaharlal Nehru University, Delhi.

TITLE : Student Mentorship
DATE : 4 to 8 October, 2021
ATTENDED BY : Vinita Sharma
ORGANIZED BY : NITTTR, Kolkata

WORKSHOPS ATTENDED

TITLE : Train the Trainer Programme on Java Programming
DATE : 6 to 13 September, 2021
ATTENDED BY : Nidhi Srivastava, Sunita Gupta, Kajal Mathur
ORGANIZED BY : Infosys, Campus Connect

TITLE : System Modelling and Artificial Intelligence
DATE : 26 to 30 July, 2021
ATTENDED BY : Poonam Ojha, Swati Joshi
ORGANIZED BY : Manipal University, Jaipur.

TITLE : Covid Care Workshop
DATE : 19 to 21 July, 2021
ATTENDED BY : Swati Joshi
ORGANIZED BY : SKIT, Jaipur

WEBINARS ATTENDED

TITLE : Green Building Ecosystem: Opportunities, Technology & Future Perspective
DATE : 22 September, 2021
ATTENDED BY : Archana Saxena
ORGANIZED BY : ASSOCHAM INDIA

TITLE : Science, Technology and Innovation Policy 2020: A Transformative S&T Agenda
DATE : 30 October, 2021
ATTENDED BY : Archana Saxena
ORGANIZED BY : SRM University, AP

TITLE : Training Programme for conduction of Induction Programme
DATE : 21 Sept, 2021
ATTENDED BY : Archana Saxena
ORGANIZED BY : AICTE

NPTTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/ TOPIC : NBA Accreditation and Teaching Learning in Engineering
 COMPLETED BY : Swati Joshi
 DURATION & CATEGORY : January to April, 2022 (12 -week), in Toppers list (top 5%) Awarded Elite Certificate with silver medal

COURSE/ TOPIC : NBA Accreditation and Teaching Learning in engineering
 COMPLETED BY : Poonam Ojha
 DURATION & CATEGORY : January to April, 2022 (12 -week), Awarded Elite Certificate

SESSION CHAIRED

SESSION ON : International conference on Environmental Pollution Abatement and Disaster Management
 CHAIRED BY : Swati Joshi, Sharda Soni, Vinita Sharma, Sangeeta Vyas, Archana Saxena
 DATE&VENUE : 19 November, 2021 at SKIT, Jaipur

Mr. Jaipal Meel, Director, SKIT welcomed the guests and the participants. Prof. Rohit Mukherjee, In charge - B.Tech. I year, presented a brief description about SKIT. At the end of the ceremony, the vote of thanks was proposed by Prof. Amber Srivastava, Head, Department of Mathematics, SKIT.

In various technical sessions spanning over a period of three days, Prof. P G Siddheshwar, Christ University, Bangalore; Prof. Somnath Bhattacharyya, IIT Kharagpur; Prof. Abdon Atangana, University of Free State, South Africa; Prof. Natesan Srinivasan, IIT, Guwahati; Prof. Chandrashekhar, and Prof. Trilok Mathur, BITS, Pilani delivered their talks and motivated the participants to enhance their research areas to advanced levels. More than 65 research papers were presented during these three days.



DEPARTMENT OF MATHEMATICS

INTERNATIONAL CONFERENCE ON 'MATHEMATICAL AND STATISTICAL COMPUTATION' ORGANIZED

A three-day International Conference on 'Mathematical and Statistical Computation' (ICMSC 2022) was organized by the Department of Mathematics, SKIT, Jaipur in association with the Rajasthan Academy of Physical Sciences (RAOPS), Jaipur, from 3 to 5 March, 2022. The main objective of the conference was to encourage all teachers of UG/PG levels, research scholars and technical researchers of various institutions of the country to upgrade their knowledge about recent advancements in the field of Mathematics and Statistical Computation.

The inaugural session of the conference was graced by Dr. Indranil Ghosh from the University of North Carolina, Wilmington, USA as the Chief Guest; and Prof. S.P. Goyal, Former Emeritus Scientist, Chief Editor of RAOPS as the Guest of Honor of the ceremony.

FDP ON 'COMPUTATIONAL MATHEMATICS & RECENT ADVANCES IN MANAGEMENT PRINCIPLES'

A five-day Faculty Development Programme on 'Computational Mathematics & Recent Advances in Management Principles' (CMRAMP-2021) was organized by the Department of Management Studies & the Department of Mathematics, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur from 15 to 19 November, 2021. The FDP focused on recent advances in managerial principles with modern computational techniques in various fields of Management Studies and Engineering & Technology. This five-day FDP comprised five informative sessions delivered by the experts from various reputed institutes. Many faculty members and research scholars from various Indian as well as foreign universities and institutes participated in this FDP.

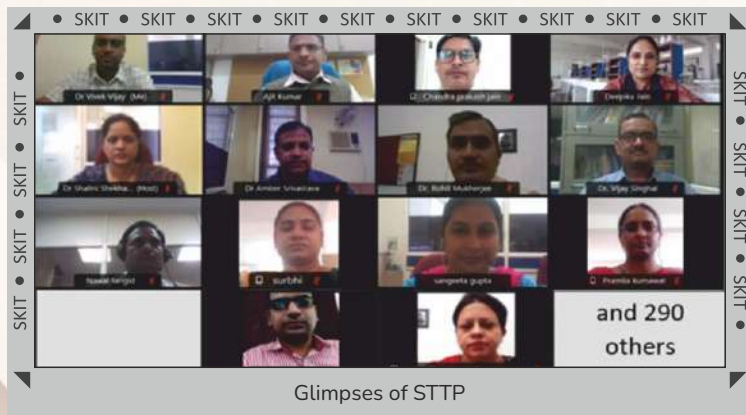
The chief guest of the programme was Prof. Pankaj Gupta, Head, Department of Mathematics, Delhi University, Delhi. Dr Amber Srivastava, HOD-Mathematics and Dr. Rohit Mukherjee, In charge, B.Tech. I year, were part of the inaugural ceremony along with the participants and the organizing team. The FDP was convened by Dr.

Ona Ladiwal, Dr. Jyoti Arora and Dr. Nawal Kishor Jangid.



SHORT TERM TRAINING PROGRAMME ON 'MATHEMATICAL SOFTWARES'

A five-day Short Term Training Programme on 'Mathematical Software's was successfully organized by the Department of Mathematics, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur from 13 to 17 September, 2021. The aim of the program was to disseminate the knowledge of Mathematical Software packages among the teaching fraternity, research scholars and students. This five-day STTP comprised five thoughtful informative sessions delivered by the experts from various reputed institutes.



The Chief Guest of the programme was Dr. Ajit Kumar, Head, Department of Mathematics, Institute of Chemical Technology, Mumbai. Dr. Ajit Kumar emphasized upon the need of application part of mathematics in the field of science and technology. The STTP was convened by Dr. Sangeeta Choudhary, and Dr. Vijay Kumar Singhal.

BOOKS PUBLISHED

TITLE : Engineering Mathematics-I, Engineering Mathematics-II, Advanced Engineering Mathematics-I, Advanced Engineering Mathematics-II.
AUTHOR/S : Amber Srivastava, Rohit Mukherjee
PUBLISHER : Genius Publications (India), 2021

TITLE : Discrete Mathematical Structures
AUTHOR/S : Amber Srivastava
PUBLISHER : Genius Publications (India), 2021

PAPER PUBLISHED IN CONFERENCE PROCEEDING

TITLE : A Novel Approach to Fractional Riccati Equations by using Laplace Decomposition Method
AUTHOR/S : Deepika Jain, Deepti Arela
PROCEEDING : Proceedings of International Conference on Recent Advancement in Science, Engineering & Technology, and Management, 1 to 2 September, 2021

PAPERS PRESENTED IN CONFERENCES

TITLE : An EOQ Model for Perishable Items with Power Pattern Demand, Dependent Holding Cost and Shortages under Trade Credit
AUTHOR/S : Vivek Vijay
CONFERENCE : International Conference on Mathematical and Statistical Computation; Department of Mathematics, SKIT.

TITLE : Large Deflection of a Circular Plate pertaining to Struve Function.
AUTHOR/S : Vijay Singhal
CONFERENCE : National Conference on Engineering Science and Technology (NCEST-2022); Global Institute of Technology, Jaipur.

TITLE : A New Approach for Ranking of Trapezoidal Fuzzy Assignment Problem
AUTHOR/S : Dr. Jyoti Arora
CONFERENCE : 4th international Conference on Mathematical Modelling, Applied Analysis and Computation-2021 (ICMMAAC-21), 5 to 7 August, 2021

TITLE : On Some New Kinetic Equations of Fractional Order, involving Gegenbauer Polynomials
AUTHOR/S : Deepika Jain, Alok Bhargava
CONFERENCE : 4th international Conference on Mathematical Modelling, Applied Analysis and Computation-2021 (ICMMAAC-21), 5 to 7 August, 2021

TITLE : A Novel Approach to Fractional Riccati Equations by using Laplace Decomposition Method
AUTHOR/S : Deepika Jain
CONFERENCE : International Conference on Recent Advancements in Science, Engineering & Technology, and Management, SKIT, Jaipur, 1 to 2 September, 2021.

TITLE : A New Solution Approach to Fractional Partial Differential Equation with Proportional Delay
AUTHOR/S : Deepika Jain
CONFERENCE : ICAACM-2021, Manipal University, Jaipur, 16 to 17 September, 2021.

FDPs ATTENDED

TITLE : Computational Mathematics and Recent Advances in Management Principles
DATE : 15 to 19 November, 2021
ATTENDED BY : Amber Srivastava, Rohit Mukherjee, Pramila Kumawat, Surbhi Sharma, Jyoti Arora, Nawal Kishor Jangid, Shalini Shekhawat, Chandra Prakash Jain, Sangeeta Gupta, Vivek Vijay, Vijay Singhal, Deepika Jain, Sumit Gupta
ORGANIZED BY : Department of Management Studies and Department of Mathematics, SKIT, Jaipur

TITLE : Number Theory & Its Applications
DATE : 14 to 19 June, 2021
ATTENDED BY : Pramila Kumawat, Surbhi Sharma, Vijay Kumar Singhal
ORGANIZED BY : GATES Institute of Technology, Ananthapuramu, Andhra Pradesh

TITLE : Mathematical Tools
DATE : 21 to 25 June, 2021
ATTENDED BY : Pramila Kumawat, Shalini Shekhawat
ORGANIZED BY : Department of Science and Humanities, Hindustan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore

TITLE : Graph Theory
DATE : 29 June to 3 July, 2021.
ATTENDED BY : Pramila Kumawat
ORGANIZED BY : Department of Sciences of Christ College, Karnataka in Collaboration with IQAC

TITLE : Higher Education: Various Dimensions
DATE : 28 June to 4 July, 2021
ATTENDED BY : Vijay Kumar Singhal
ORGANIZED BY : Jain Vishva Bharati Institute, Ladnun

TITLE : Inculcating Universal Human Values in Technical Education
DATE : 5 to 9 July, 2021
ATTENDED BY : Pramila Kumawat
ORGANIZED BY : AICTE

TITLE : Recent Trends in Applications of Mathematics
DATE : 12 to 17 July, 2021
ATTENDED BY : Jyoti Arora, Pramila Kumawat, Shalini Shekhawat
ORGANIZED BY : Chadalawada Ramanamma Engineering College, Tirupati

TITLE : Inculcating Universal Human Values in Technical Education
DATE : 26 to 30 July, 2021
ATTENDED BY : Jyoti Arora, Pramila Kumawat, Shalini Shekhawat, Surbhi Sharma, Vijay Kumar Singhal, Vivek Vijay
ORGANIZED BY : AICTE

TITLE : Advanced Structural Analysis and Modern Construction of Civil Engineering Structures Techniques
DATE : 26 to 30 July, 2021
ATTENDED BY : Surbhi Sharma
ORGANIZED BY : Oriental Institute of Sciences and Technology, Bhopal and Shri GS Institute of Technology and Sciences

TITLE : Curriculum Development, Research and Publication Ethics
DATE : 2 to 9 August, 2021
ATTENDED BY : Jyoti Arora, Surbhi Sharma
ORGANIZED BY : SRM Institute of Science and Technology, Ramapuram Campus, Chennai

TITLE : Internet of Things (Applications in Medical Science)
DATE : 9 to 13 August, 2021
ATTENDED BY : Amber Srivastava, Rohit Mukherjee
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy, Women Engineering College, Ajmer

TITLE : Computational Modelling and Simulation in Applied Sciences

DATE : 9 to 13 August, 2021
 ATTENDED BY : Jyoti Arora
 ORGANIZED BY : Amity University, Kolkata

TITLE : Recent Developments in Mathematics and their Applications
 DATE : 12 to 14 August, 2021
 ATTENDED BY : Pramila Kumawat
 ORGANIZED BY : Department of Mathematics, Jaipur Engineering College, Kukas

TITLE : Mathematical Tools and Recent Advances in Applied Mathematics
 DATE : 16 to 20 August, 2021
 ATTENDED BY : Shalini Shekhawat, Vijay Kumar Singhal
 ORGANIZED BY : AICTE Training and Learning Academy, Madan Mohan Malaviya University of Technology, Gorakhpur

TITLE : Code of Conduct & Professional Ethics
 DATE : 16 to 21 August, 2021
 ATTENDED BY : Chandra Prakash Jain, Deepika Jain, Nawal Kishor Jangid, Pramila Kumawat, Sangeeta Gupta, Shalini Shekhawat
 ORGANIZED BY : Universal Human Values and Ethics Committee, SKIT, M&G; Jaipur

TITLE : Modern Methods for Effective Teaching and Learning
 DATE : 17 to 21 August, 2021
 ATTENDED BY : Shalini Shekhawat
 ORGANIZED BY : Department of Mathematics, Rathinam College of Arts and Science, Coimbatore

TITLE : Outcome based Education: A Paradigm for Assessment and Accreditation
 DATE : 24 to 28 August, 2021
 ATTENDED BY : Chandra Prakash Jain, Jyoti Arora, Sangeeta Gupta, Shalini Shekhawat, Sumit Gupta, Surbhi Sharma, Vijay Kumar Singhal
 ORGANIZED BY : Department of Computer Science and Engineering & Department of Information Technology under the aegis of IQAC & PAQIC, SKIT, Jaipur

TITLE : Advance Research Methodology and Writing High Quality Research Paper
 DATE : 24 to 28 August, 2021
 ATTENDED BY : Nawal Kishor Jangid, Pramila Kumawat, Vivek Vijay
 ORGANIZED BY : Department of Management studies and Department of Mechanical Engineering, SKIT, Jaipur

WORKSHOPS ATTENDED

TITLE : Materials Fabrication and Characterization Techniques
 DATE : 24 to 28 January, 2022
 ATTENDED BY : Pramila Kumawat
 ORGANIZED BY : Department of Physics, SKIT, Jaipur

TITLE : Documentation through LATEX
 DATE : 18 to 22 June, 2021
 ATTENDED BY : Chandra Prakash Jain, Dr. Nawal Kishor Jangid
 ORGANIZED BY : Global institute of statistical solution

TITLE : Covid Care Workshop
 DATE : 19 to 21 July, 2021
 ATTENDED BY : Jyoti Arora, Surbhi Sharma
 ORGANIZED BY : SKIT, Jaipur

TITLE : System Modelling and Artificial Intelligence
 DATE : 26 to 30 July, 2021
 ATTENDED BY : Chandra Prakash Jain, Jyoti Arora, Nawal Kishor Jangid
 ORGANIZED BY : Department of Mathematics & Statistics, School of Basic Sciences, Manipal University, Jaipur

STTPs/ SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE : Modelling and Simulation in Engineering Applications
 DATE : 22 to 26 March, 2022
 ATTENDED BY : Sumit Gupta
 ORGANIZED BY : Department of Electrical Engineering, SKIT

TITLE : Student Mentorship
 DATE : 4 to 8 October, 2021
 ATTENDED BY : Sangeeta Gupta
 ORGANIZED BY : NITTTR, Kolkata

TITLE : NASI-TMC Summer School on Differential Geometry
 DATE : 5 to 24 July, 2021
 ATTENDED BY : Surbhi Sharma, Vijay Kumar Singhal, Jyoti Arora, Nawal Kishore Jangid, Sumit Gupta
 ORGANIZED BY : Department of Mathematics and Statistics, Central University of Punjab, Bhatinda

TITLE : Full-Custom Design of an IC using Mentor Graphics and Synopsys
DATE : 9 to 21 August, 2021
ATTENDED BY : Surbhi Sharma
ORGANIZED BY : MVSR Engineering College, Hyderabad

TITLE : STTP on Mathematical Softwares
DATE : 13 to 17 September, 2021
ATTENDED BY : Amber Srivastava, Chandra Prakash Jain, Deepika Jain, Nawal Kishor Jangid, Pramila Kumawat, Rohit Mukherjee, Sangeeta Gupta, Shalini Shekhawat, Sumit Gupta, Surbhi Sharma, Jyoti Arora, Vijay Kumar Singhal, Vivek Vijay
ORGANIZED BY : Department of Mathematics, SKIT, Jaipur

TITLE : Refresher Course in Mathematical Science
DATE : 14 to 28 June, 2021
ATTENDED BY : Sangeeta Gupta
ORGANIZED BY : Teaching Learning Centre, Ramanujan College, University of Delhi

WEBINARS ATTENDED

TITLE : Stress Management with Yoga
DATE : 29 July, 2021
ATTENDED BY : Pramila Kumawat
ORGANIZED BY : SKIT Women Cell

TITLE : Common Gynaecological Problems in Females
DATE : 7 August, 2021
ATTENDED BY : Pramila Kumawat
ORGANIZED BY : SKIT Women Cell

CONFERENCE ATTENDED

TITLE : International Conference on Environmental Pollution Abatement and Disaster Management
DATE : 18 to 20 October, 2021
ATTENDED BY : Pramila Kumawat
ORGANIZED BY : SKIT, Jaipur

TITLE : International Conference on Recent Advancements in Science, Engineering & Technology and Management
DATE : 1 to 2 September, 2021
ATTENDED BY : Sumit Gupta, Pramila Kumawat, Sangeeta Gupta
ORGANIZED BY : Department of Electrical Engineering, SKIT, Jaipur

NPTEL / mooKIT / IITBX / SWAYAM

COURSES COMPLETED

COURSE/TOPIC : Mathematics for Economics-I
COMPLETED BY : Chandra Prakash Jain, Nawal Kishor Jangid, Vivek Vijay, Vijay Kumar Singhal

DURATION & CATEGORY : 12-Week, FDP Course

COURSE/TOPIC : Enhancing Soft Skills and Personality
COMPLETED BY : Pramila Kumawat

DURATION & CATEGORY : 8-Week, FDP Course

ON GOING PROJECTS

TITLE : Development of Intelligent Prediction Models for Accessing Air Quality in different Cities of Rajasthan

SANCTIONED FROM: Competitive Research Scheme by RTU

SANCTIONED NO. : TEQIP-III/RTU (ATU)/CRS/2019-20/51

FACULTY : Shalini Shekhawat

TITLE : Application of Metaheuristic for prediction of Secondary Structure of Proteins

SANCTIONED FROM: Competitive Research Scheme by RTU

SANCTIONED NO. : TEQIP-III/RTU (ATU)/CRS/2019-20/33

FACULTY : Shalini Shekhawat

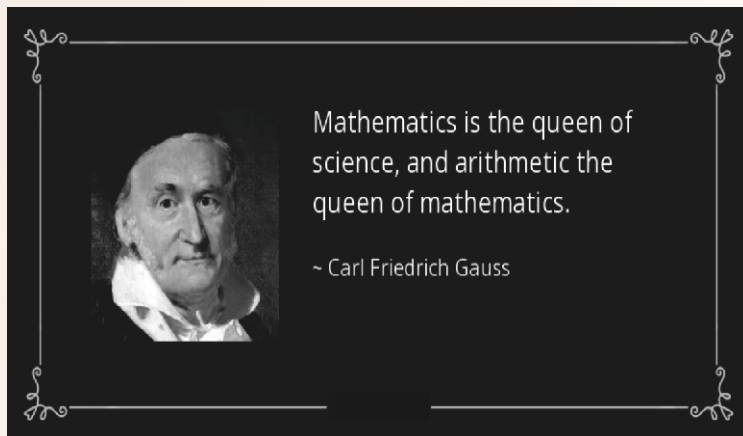
COURSES MENTORED

MENTOR/S COURSE/S

Vijay Singhal : Enhancing Soft skills and personality

Surbhi Sharma

Jyoti Arora : Problem Solving through Programming in C



DEPARTMENT OF PHYSICS

INTERNATIONAL CONFERENCE ON 'RECENT TRENDS IN EMERGING TECHNOLOGIES' ORGANIZED

An international conference on 'Recent Trends in Emerging Technologies' [iNCRTE2022] was organized by the Department of Physics, Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur in collaboration with the Innovative Technology Enabling Centre (InTEC) of the CSIR-Institute of Minerals and Materials Technology (IMMT) from 16 to 17 March, 2022. Seven plenary talks and four technical sessions were held during this two-day international conference. Eminent speakers from many reputable institutes and universities offered instructive and engaging talks. This conference drew over 100 researchers, faculty members, and students from various universities and institutions across the country.



GLIMPSE OF THE CONFERENCE

STUDENT WORKSHOP ON 'LEARNING PHYSICS THROUGH SIMULATION AND EXPERIMENT'

A five -day student workshop on 'Learning Physics through Simulation and Experiment' (LPSE-2021) was successfully organized by the Department of Physics, SKIT, Jaipur in association with the Indian Association of Physics Teachers (IAPT) from 6 to 10 December, 2021. The workshop comprised five thoughtful informative and interactive sessions delivered by the experts from various reputed institutes. The workshop made the students aware about the importance of the effectiveness of scientific measurement while developing a conceptual understanding of measurement and uncertainty.

The workshop was inaugurated on December 6, 2021. Prof. Y.K. Vijay (Director, CIST, IIS University, Jaipur & President IAPT) was the

Chief guest and Keynote Speaker of the inaugural session. In this session, Prof. Y.K. Vijay explained the basic concepts related to fundamental forces and their effects with an online demonstration of various experimental setups. On the second day, Prof. R. K. Khanna (Former Dean, VGU, Jaipur) discussed about non-ionizing radiations such as the role of microwaves in mobile communication and explained the concept of electromagnetic pollution and their biological effects. Dr. G. S Menaria (Regional Coordinator, ANVESHKA_IAPT) discussed and demonstrated the basic concepts of physics especially related to Optics and Electromagnetism. The session on the third day was delivered by Prof. O.S.K.S. Sastri (Head, Department of Physics, Central University, Himachal Pradesh). He explained the role of simulation in experimental technique and demonstrated the method of computer simulation. On the final day of the workshop, Dr. Syed Minhaz Hossain (Associate Professor, IEST, Shibpur) talked about the simulation tool to track the motion of particle. The workshop was convened by Mr. Pawan Kumar Jain, Mr. Rajiv Kumar, Dr. Ajay Kumar Sharma and Dr. Rishi Vyas.



Glimpse of the workshop

WORKSHOP ON 'MATERIALS FABRICATION & CHARACTERIZATION TECHNIQUES'

A five -day workshop on 'Materials Fabrication & Characterization Techniques' was successfully organized by the Department of Physics, SKIT, Jaipur from 24 to 28 January, 2022. The aim of the workshop was to provide an opportunity to the students, young researchers, engineers, and academicians to sharpen their research skills and to gain knowledge related to major analytical techniques for materials characterization like SEM, TEM, XRD, XPS, etc. with emphasis on practical applications in Engineering, Physical and Life Sciences. Also, this workshop provided an in-depth knowledge of advancements in materials, their fundamental characteristics, synthesis, and applications in different domains of Science and Technology.

The workshop comprised five sessions. Dr. Govind Gupta, Senior Principal & Professor (AcSIR), National Physical Laboratory, New Delhi was the Chief guest of the inaugural session. He explained the

importance of material fabrication and need of characterization techniques and delivered an expert talk on 'Fabrication of Nitride Heterostructures for Efficient Photodetection'. The second day of the workshop began with an expert lecture by Dr. Balram Tripathi, Associate Professor, S.S. Jain Subodh College, Jaipur. He talked about solid state sulfur batteries which is an alternate of Li-ion battery. On the third day, Dr. Ambesh Dixit, Associate Professor, Department of Physics, IIT, Jodhpur, discussed about the need of materials characterization and optical spectroscopy characterization technique. Day four began with an interactive session by Dr. Pawan Kumar Kulriya, Associate Professor, School of Physical Sciences, JNU, New Delhi. He delivered his session on 'X-ray Diffractometer: Technique for Structural Analysis of Materials from bulk to Nano Size' and also explained the material fabrication for XRD analysis. The workshop ended with the final session of day five by Dr. Vishal Mathur, Assistant Professor, Physics, American International University, Kuwait. He shared his knowledge on 'Thermo-mechanical Characterization of Polymer Nanocomposites'. The Workshop was coordinated by Dr. Manasvi Dixit, Dr. Ajay Kumar Sharma, Dr. Komal Sharma and Mr. Rajiv Kumar.



PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

TITLE : Enhanced Dielectric Properties of Polyaniline based Carbon Nano Composites for Supercapacitor Application
AUTHOR/S : Ajay Sharma, Manasvi Dixit
PROCEEDING : Proceeding of International Conference on Recent Advancements in Science, Engineering & Technology, and Management, ISBN: 978-81-954233-4-7

TITLE : Study of Optical Properties of Gold Structure for Plasmonics Applications
AUTHOR/S : Rajiv Kumar, Ajay Sharma, Pawan Kumar Jain
PROCEEDING : Proceeding of International Conference on Recent Advancements in Science,

Engineering & Technology, and Management, ISBN: 978-81-954233-4-7

TITLE : Triple Band Elliptical Shaped Microstrip Patch Antenna for Modern Communication System
AUTHOR/S : Pawan Kumar Jain, Rajiv Kumar, Ajay Sharma, Brajraj Sharma
PROCEEDING : Proceeding of International Conference on Recent Advancements in Science, Engineering & Technology, and Management, ISBN: 978-81-954233-4-7

FDPs ATTENDED

TITLE : Recent Trends in Science And Engineering
DATE : 11 to 16 March, 2022
ATTENDED BY : Brajraj Sharma
ORGANIZED BY : Department of School of Basic and Applied Science, Anand International College of Engineering, Jaipur

TITLE : Green Technology Applications and its Effect on the Modern World
DATE : 9 to 10 May, 2022
ATTENDED BY : Brajraj Sharma
ORGANIZED BY : Stani Memorial College of Engineering & Technology, Jaipur

TITLE : NBA Accreditation and Teaching-Learning Process in Engineering
DATE : 15 to 19 November, 2021
ATTENDED BY : Komal Sharma
ORGANIZED BY : Department of ECE, SKIT

TITLE : Computational Mathematics and Recent Advances in Management Principles
DATE : 15 to 19 November, 2021
ATTENDED BY : Manasvi Dixit, Ajay Kumar Sharma
ORGANIZED BY : SKIT, Jaipur

TITLE : Intellectual Property Rights
DATE : 18 to 22 January, 2022
ATTENDED BY : Manasvi Dixit, Komal Sharma, Rajiv Kumar
ORGANIZED BY : IPR Cell & Department of Management Studies, SKIT, Jaipur

TITLE : Sensors Technology
DATE : 6 to 10 September, 2021
ATTENDED BY : Rishi Vyas

ORGANIZED BY : AICTE Training and Learning (ATAL) Academy,
New Delhi

TITLE : Nanosensor
DATE : 5 to 9 July, 2021
ATTENDED BY : Rishi Vyas
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy,
New Delhi

TITLE : Introduction to the Mathematical Modelling of
Smart Materials and their Applications to
Sensor and Actuators
DATE : 12 to 16 July, 2021
ATTENDED BY : Rishi Vyas
ORGANIZED BY : AICTE Training and Learning (ATAL) Academy,
New Delhi

TITLE : Optical Fibre Communication
DATE : 26 to 30 July, 2021
ATTENDED BY : Manasvi Dixit, Rajiv Kumar
ORGANIZED BY : NITTR, Chennai

TITLE : Code of Conduct & Professional Ethics
DATE : 16 to 21 August, 2021
ATTENDED BY : B. R. Sharma, Komal Sharma,
Manasvi Dixit, Ajay Kumar Sharma
ORGANIZED BY : Universal Human Values and Ethics
Committee, SKIT, M&G, Jaipur

TITLE : Outcome-Based Education: A Paradigm for
Assessment & Accreditation
DATE : 24 to 28 August, 2021
ATTENDED BY : B.R. Sharma, Komal Sharma, Manasvi
Dixit, Rishi Vyas, Rajiv Kumar
ORGANIZED BY : Department of CSE & IT under the aegis
IQAC and PAQIC; SKIT, M&G, Jaipur

WORKSHOPS ATTENDED

TITLE : Writing and Publishing of Quality Research
Articles and Ethics of Research
DATE : 21 to 25 February, 2022
ATTENDED BY : Brajraj Sharma, Komal Sharma, Manasvi Dixit
ORGANIZED BY : SKIT, Jaipur

TITLE : National Workshop & Hands-on Training
in Microwave Experiments (HTME-2022)
DATE : 18 to 19 February, 2022
ATTENDED BY : Brajraj Sharma, Komal Sharma, Manasvi Dixit
ORGANIZED BY : Department of Physics, Kanoria PG Mahila
Mahavidyalaya, Jaipur

TITLE : Intellectual Property Rights and Patent Filing
Process

DATE : 21 to 29 October, 2021
ATTENDED BY : Brajraj Sharma, Komal Sharma, Rishi Vyas,
Rajiv Kumar, Ajay Kumar Sharma
ORGANIZED BY : IPR Cell, SKIT, Jaipur & COE-IP, CDAC, Pune

TITLE : National Intellectual Property Awareness
Mission
DATE : 24 December, 2021
ATTENDED BY : Rishi Vyas, Komal Sharma, Manasvi Dixit
ORGANIZED BY : Intellectual Property Office, India

TITLE : Molecular Beam Epitaxy
DATE : 17 to 18 November, 2021
ATTENDED BY : Rajiv Kumar
ORGANIZED BY : CCT, University of Rajasthan

TITLE : Short Term Course on Journey from
Semiconductor Physics to Smart Devices
to Intelligent Automation
DATE : 1 to 5 May, 2021
ATTENDED BY : Rishi Vyas
ORGANIZED BY : NIT Srinagar and Semiconductor Society
of India

TITLE : GNU Plot
DATE : 22 May, 2021
ATTENDED BY : Rishi Vyas
ORGANIZED BY : Teaching Learning Center, IIT Bombay

TITLE : Ideation, Innovation, Incubation &
Entrepreneurship (IIIE-2021)
DATE : 12 to 14 August, 2021
ATTENDED BY : Komal Sharma, Manasvi Dixit
ORGANIZED BY : Incubation Cell and Entrepreneurship
Development Cell, SKIT, M&G, Jaipur

TITLE : IEEE AP-S Jaipur School on Microwaves,
Millimeter Waves and Terahertz Techniques &
2nd International Workshop on Metamaterial &
its Applications
DATE : 17 to 23 July, 2021
ATTENDED BY : Brajraj Sharma, Komal Sharma
ORGANIZED BY : IEEE Delhi Section AP-S Chapter, Jaipur

STTPs ATTENDED

TITLE : Renewable Energy Sources and
Emerging Technologies
DATE : 6 to 10 September, 2021

ATTENDED BY : Manasvi Dixit, Komal Sharma
ORGANIZED BY : NITTR, Kolkata
TITLE : Mathematical Software
DATE : 13 to 17 September, 2021
ATTENDED BY : Manasvi Dixit, Komal Sharma
ORGANIZED BY : SKIT M & G, Jaipur

COURSE/TOPIC : Story of Photoelectric Effect
COMPLETED BY : Brajraj Sharma, Rajiv Kumar,
Ajay Kumar Sharma, Komal Sharma,
Manasvi Dixit
DURATION & CATEGORY : July to August, 2021. Awarded
Certificate

NPTEL / mooKIT / IITBX / SWAYAM COURSES COMPLETED

COURSE/TOPIC : Intellectual Property
COMPLETED BY : Rishi Vyas
DURATION & CATEGORY : January to April, 2022 (12
week), Awarded Elite Silver

COURSE/TOPIC : Physics of Renewable Energy
Systems
COMPLETED BY : Komal Sharma, Manasvi Dixit, Ajay
Kumar Sharma
DURATION & CATEGORY : July to October, 2021 (12-Week),
Awarded Elite certificate

COURSE/TOPIC : Wastewater Treatment and Recycling
COMPLETED BY : Ajay Kumar Sharma
DURATION & CATEGORY : July to October, 2021 (12-Week),
Awarded Elite and Silver certificate

COURSE/TOPIC : Refresher Course on Teacher and
Teaching in Higher Education (Swayam
ARPIT Online Course)
COMPLETED BY : Brajraj Sharma, Komal Sharma,
Manasvi Dixit, Rishi Vyas
DURATION & CATEGORY : 1 Dec 2020 to 31 March, 2021
(Certified on 27 Oct., 2021)

COURSE/TOPIC : Experimental Physics-II
COMPLETED BY : Rajiv Kumar
DURATION & CATEGORY : January to April, 2021 (12-week).
Topper and Gold Medal

COURSE/TOPIC : Experimental Physics-II
COMPLETED BY : Rishi Vyas
DURATION & CATEGORY : January to April, 2021 (12-week).
Awarded Silver Medal

COURSE/TOPIC : Experimental Physics-II
COMPLETED BY : Manasvi Dixit
DURATION & CATEGORY : January to April, 2021 (12-week).
Awarded Elite Certificate

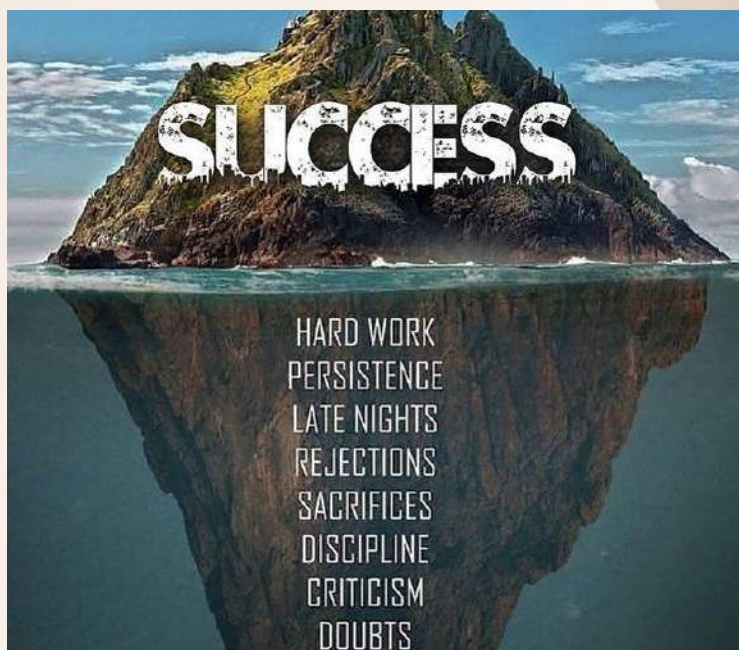
WEBINAR ATTENDED

TITLE : Intellectual Property Rights
DATE : 30 April, 2022
ATTENDED BY : Rishi Vyas, Manasvi Dixit
ORGANIZED BY : IPR Cell, SKIT Jaipur

TITLE : Intellectual Property Rights
DATE : 25 October, 2021
ATTENDED BY : Brajraj Sharma, Komal Sharma, Manasvi Dixit,
Rishi Vyas
ORGANIZED BY : IPR Cell, SKIT, Jaipur

Ph.D. AWARDED

THESIS TITLE : Synthesis of Carbon Nanostructure
based Polymer Composites and their
Electrical and Physicochemical
Characterization
Ph.D AWARDED TO : Ajay Kumar Sharma
SUPERVISED BY : Dr. Vipin Kumar Jain
INSTITUTE : JK Lakshmi Pat University, Jaipur
YEAR : 27 December, 2021



PAPERS PUBLISHED

DEPARTMENTS OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

- TITLE :** Zika Virus Prediction using AI-Driven Technology and Hybrid Optimization Algorithm in Healthcare
- AUTHOR/S :** Pankaj Dadheech, Abolfazl Mehbodniya, Shivam Tiwari, Sarvesh Kumar, Pooja Singh, Sweta Gupta, Henry Kwame Atiglah
- JOURNAL :** Journal of Healthcare Engineering
- TITLE :** A Liver Damage Prediction using Partial Differential Segmentation with Improved Convolutional Neural Network
- AUTHOR/S :** B. Sumathy, Pankaj Dadheech, Monika Jain, Ankur Saxena, S. Hemalatha, Wenqi Liu, and Stephen Jeswinde Nuagah
- JOURNAL :** Journal of Healthcare Engineering
- TITLE :** Intelligent Wearable Devices Enabled Automatic Vehicle Detection and Tracking System with Video Enabled UAV Networks using Deep Convolutional Neural Network and IoT Surveillance
- AUTHOR/S :** A. R JayaSudha, Pankaj Dadheech, K. Ramalingeswara Prasad, S. Hemalatha, Meghna Sharma, Sajjad Shaukat Jamal and Daniel Krah
- JOURNAL :** Journal of Healthcare Engineering
- 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
- JOURNAL :** Wireless Communications and Mobile Computing
- TITLE :** Design Features of Grocery Product Recognition using Deep Learning

- AUTHOR/S :** E. Gothai, Surbhi Bhatia, Aliaa M. Alabdali, Dilip Kumar Sharma, Bhavana, Raj Kondamudi and Pankaj Dadheech
- JOURNAL :** Intelligent Automation & Soft Computing
- TITLE :** Support Vector Machine Based Handwritten Hindi Character Recognition and Summarization
- AUTHOR/S :** Sunil Dhankhar, Mukesh Kumar Gupta, Fida Hussain Memon, Surbhi Bhatia, Pankaj Dadheech and Arwa Mashat
- JOURNAL :** Computer Systems Science and Engineering
- TITLE :** Detection and localization for Watermarking Technique using LSB Encryption for DICOM Image
- AUTHOR/S :** Mukesh Kumar Gupta, Pankaj Dadheech, Ankit Kumar, Sanwta Ram Dogiwal, Ramesh Chandra Poonia, Linesh Raja & Devershi Pallavi Bhatt
- JOURNAL :** Journal of Discrete Mathematical Sciences and Cryptography
- TITLE :** IoT, Enabling Technologies, and Sensor Node Deployment Pattern in WSN
- AUTHOR/S :** Sunita Gupta, Meenakshi Nawal, Neha Janu and Dinesh Goyal
- JOURNAL :** IOP Science, ECS Transactions, Volume 107, Number 1
- TITLE :** Assimilation of Blockchain over Cloud Computing
- AUTHOR/S :** Priyanka, Bright Keswani
- JOURNAL :** Journal of Discrete Mathematical Sciences and Cryptography (Scopus-Q2)
- TITLE :** Blockchain-based Cryptography Model to Preserve Privacy for Smart Contracts
- AUTHOR/S :** Priyanka, Bright Keswani
- JOURNAL :** Journal of Discrete Mathematical Sciences and Cryptography (Scopus-Q2)
- TITLE :** Automatic Index Point Detection and Semantic Indexing of Educational Videos
- AUTHOR/S :** Mehul Mahrishi, Sudha Morwal
- JOURNAL :** Design Engineering (SCOPUS)
- TITLE :** Video Index Point Detection and Extraction Framework using Custom YoloV4 Darknet Object Detection Model
- AUTHOR/S :** Mehul Mahrishi, Sudha Morwal, Surbhi Bhatia, Pankaj Dadheech
- JOURNAL :** IEEE Access (SCIE)

TITLE : Cloud Security Service for Identifying Unauthorized User Behaviour
AUTHOR/S : David, D. S., Anam, M., Kaliappan, C., Arun, S., Sharma, D.K., Dadheech, P., Sengan, S.
JOURNAL : CMC-Computers, Materials & Continua, 70(2), pp. 2581–2600, doi:10.32604/cmc.2022.020213

TITLE : Enhanced Detection of Glaucoma on Ensemble Convolutional Neural Network for Clinical Informatics
AUTHOR/S : David, D. S., Arun, S., Sivaprakash, S., Raja, P. V., Sharma, D. K., Dadheech, P., Sengan, S.
JOURNAL : CMC-Computers, Materials & Continua, 70(2), pp. 2563–2579, doi:10.32604/cmc.2022.020059

TITLE : Video Index Point Detection and Extraction Framework using Custom YoloV4 Darknet Object Detection Model
AUTHOR/S : M. Mahrishi, S. Morwal, A. W. Muzaffar, S. Bhatia, P. Dadheech and M. K. I. Rahmani
JOURNAL : IEEE Access, doi: 10.1109/ACCESS.2021.3118048

TITLE : Utilizing Index-Based Periodic High Utility Mining to Study Frequent Itemsets
AUTHOR/S : Roy Setiawan, Dac-Nhuong Le, Regin Rajan, Thirukumaran Subramani, Dilip Kumar Sharma, Vidya Sagar Ponnamp, Kailash Kumar, Syed Musthafa, Akbar Batcha, Pankaj Dadheech, Sudhakar Sengan
JOURNAL : Arabian Journal for Science and Engineering, Special Issue- Frontiers in Parallel Programming Models for Fog and Edge Computing Infrastructures

TITLE : Securing Data in Transit using Data-in Transit Defender Architecture for Cloud Communication
AUTHOR/S : Keerthana Nandakumar, Viji Vinod, Syed Musthafa Akbar Batcha, Dilip Kumar Sharma, Mohanraj Elangovan, Anjana Poonia, Suresh Mudlappa Basavaraju, Sanwta Ram Dogiwal, Pankaj Dadheech & Sudhakar Sengan
JOURNAL : Soft Computing

TITLE : An Enhanced Trust-Based Kalman Filter Route Optimization Technique for Wireless Sensor Networks
AUTHOR/S : Narayanasami, S., Butta, R., Govindaraj, R., Choudhary, S.S., Sharma, D.K., Poonia, A., Sengan, S., Dadheech, P., Shukla N.K., & Verma, R.
JOURNAL : Wireless Personal Communications

TITLE : A Multi-Stakeholder Involved Effective E Waste

Management in Manufacturing Recycled Electronic Products Using Game Theory
AUTHOR/S : Sengan, S., Palaniappan, K., Kathamuthu, N., Amin R., Mariappan R., Hashim N. Zain E., Dadheech P.

JOURNAL : Arabian Journal for Science and Engineering (2021), Special Issue-Frontiers in Parallel Programming Models for Fog and Edge Computing Infrastructures

TITLE : An improved Henry Gas Solubility Optimisation based Features Election Approach for Histological Image Taxonomy
AUTHOR/S : Sushila Vishnoi, Ajit Kumar Jain
JOURNAL : International Journal of Intelligent Systems Technologies and Applications, Vol. 20; Issue 1 (2021) pp.58-78

DEPARTMENT OF MECHANICAL ENGINEERING

TITLE : Bio-fuels: Indian Scenario-A Review
AUTHOR/S : Dheeraj Joshi
JOURNAL : Ecology, Environment and Conservation (Vol. 28, May Suppl. Issue 2022; Page No. (562-565))

TITLE : Processing and Mechanical Behavior of Banana Fibre Reinforced Epoxy based Composite with Alumina and Silicon Carbide
AUTHOR/S : Raj Kumar
JOURNAL : International Journal of Scientific Research in Science and Technology (7 Jan 2022)

TITLE : Optimization of Diesel Engine Performance and Emissions with Biodiesel-Diesel Blends and EGR using Response Surface Methodology (RSM)
AUTHOR/S : Ashish Nayyar
JOURNAL : Cleaner Engineering and Technology (Volume 8, June 2022)

TITLE : Thermomechanical Pretreatment of Al-Zr Mg-Cr Alloy to improve the Performance through Creep Age Forming
AUTHOR/S : Raj Kumar
JOURNAL : Material Today Proceedings (Available online 25 Feb, 2022)

TITLE : A Building Bio-climatic Design Tool Incorporating Passive Strategies in Residential Dwellings Design

of Composite Climate of India.

AUTHOR/S : Sanjay Kumar, Anuj Mathur, Kunj Bihari Rana, Chandan Kumar

JOURNAL : International Journal of Environment and Sustainable Development, Vol. 21, Nos. 1/2, pp. 175-205, 2022 (Published Online: Nov 16, 2021)

TITLE : A Comprehensive Review on Low Temperature Combustion Technologies for Emission Reduction in Diesel Engines

AUTHOR/S : Amit Jhalani, Dilip Sharma, Pushpendra Kumar Sharma, Digambar Singh, Sumit Jhalani and Jay Prakash Dubey

JOURNAL : International Journal of Automotive and Mechanical Engineering, vol. 18(4), pp.9230 – 9243, Published online 21 Dec 2021

TITLE : A Mini Review on The Design Modifications in Evacuated Tube Solar Collectors to Improve the Performance and Productivity

AUTHOR/S : Naman choudhary, Dinesh Kumar Sharma, Ashish Nayyar

JOURNAL : SKIT Research Journal, vol. 11(2), pp. 66 70, 2022

TITLE : An Experimental Study Carried on Rotary Ultrasonic Machining on Fiber Reinforced Polymer Composites

AUTHOR/S : Vikash Gautam, Rounak Nuwal

JOURNAL : SKIT Research Journal, vol. 11(2), pp. 71 76, 2022

TITLE : Enhancement of Quality of Polypropylene by Optimisation of Injection Moulding Parameters with Genetic Algorithm

AUTHOR/S : Deepak Kumar, G.S. Dangayach, P.N. Rao

JOURNAL : International Journal of Environment and Sustainable Development, Vol. 21, Nos. 1/2, pp. 206-217, 2022 (Published Online: Nov 16, 2021)

TITLE : Optimization of Parameters for MRR in Drilling Operation using Jaya Algorithm

AUTHOR/S : Sudesh Garg, Prem Singh, Md. Suhaib Ansari

JOURNAL : SKIT Research Journal, vol. 11(2), pp. 63 65, 2022

TITLE : Organizational Enablers for Sustainable Manufacturing and Industrial Ecology

AUTHOR/S : Dharmendra Hariyani, Sanjeev Mishra

JOURNAL : Cleaner Engineering and Technology, vol.6, Feb 2022, (Available online 29 December 2021)

TITLE : Experimental Investigation of Rotary Ultrasonic Face Milling on Float glass and

Red Granite

AUTHOR/S : Varun Kumar, Dheeraj Joshi, Praveen Saraswat

JOURNAL : SKIT Research Journal, vol. 11(1), pp. 73 78, 2021

TITLE : Experimental Investigation of Packed Bed Latent Thermal Energy Storage

AUTHOR/S : Shubham Sahu, Dinesh Kumar Sharma, Manu Augustine, Sanjay Choudhary

JOURNAL : SKIT Research Journal, vol. 11(1), pp. 51 54, 2021

TITLE : Recent Advances in Solar Tunnel Dryer for Performance Improvement in Food Drying Process: A Review

AUTHOR/S : Ankit Kumar Agarwal, K.B. Rana, B. Tripathi

JOURNAL : International Journal of Environment and Sustainable Development (Inderscience), Vol. 20, Nos. 3/4, pp. 331-353, 2021

TITLE : Analyzing and Comparing the Effect of Water and Surfactant Cleaning on Performance of Solar Photovoltaic Panels

AUTHOR/S : Ankit Agarwal, Tripti, Chandan Kumar

JOURNAL : SKIT Research Journal, vol. 11(1), pp. 68 72, 2021

TITLE : Selection of Suitable Bio-Fuel for Diesel Engine based on Fuel Properties

AUTHOR/S : Chandan Kumar, Rajendra Singh Chundawat, Ankit Agarwal, Mukesh Kumar

JOURNAL : SKIT Research Journal, vol. 11(1), pp. 55 59, 2021

TITLE : Design, Development and Performance Analysis of Modified Solid Fertilizer Spreader Equipped with Air Blower

AUTHOR/S : Chandan Kumar, K. B. Rana, M. L. Meena

JOURNAL : International Journal of Environment and Sustainable Development (Inderscience), vol. 20, Nos. 3/4, pp. 264-278, 2021

TITLE : Thermal Hydraulic Performance Analysis of Rectangular Duct having Single Step Rib using CFD as a Tool

AUTHOR/S : Suresh Choudhary, Chandan Kumar, Brij Mohan Sharma

JOURNAL : SKIT Research Journal, vol. 11(1), pp. 79 83, 2021

TITLE : Selection of Phase Change Materials for Thermal Energy Storage Integrated with a Solar Powered Vapour Absorption System

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

JOURNAL : International Journal of Environment and

TITLE : Research on the Influence of Dust and Ambient Temperature on the Power of Photovoltaic Cells based on the Regression Method
AUTHOR/S : Sumit Sharma, Ashish Nayyar, Kamal Kishore Khatri
JOURNAL : International Journal of Energy Optimization and Engineering, vol.10(2), pp.24-47,2021

TITLE : Optimization of EGR Effects on Performance and Emission Parameters of a Dual Fuel (Diesel + CNG) CI Engine: An Experimental Investigation
AUTHOR/S : Sudhir Kumar Pathak, Ashish Nayyar, Varun Goel
JOURNAL : Fuel, vol.291(120183), 2021

TITLE : Computational Analysis of Aluminium Alloy Plates against Conical-Nose Steel Projectile
AUTHOR/S : M.J. Pawara, Vikash Gautam, Ashiwani Kumar, Vikas Kukshal
JOURNAL : Material Today: Proceedings, Volume 46, Part 15, pp-6552-6557,2021

TITLE : Investigation on Mechanical and Tribological Characterization of Gr Filled AA7075 Alloy Composite using Taguchi Method
AUTHOR/S : Ashiwani Kumar, Mukesh Kumar, Vikas Kukshal, Akhileshwar Pandey, M.J.Pawar, Vikash Gautam
JOURNAL : Material Today: Proceedings, Volume 46, Part 15, pp-6534-6540, 2021

TITLE : Study on Some Aspects of Adoption of Solar Cooking System: A Review
AUTHOR/S : Hemant Raj Singh, Dilip Sharma, Rahul Goyal, Dinesh Kumar Sharma, Sonali Chadha
JOURNAL : Material Today: Proceedings, Volume 47, Part 11, pp-2994-3000, 2021

TITLE : Low-Cost Novel Designed Receiver Heat Exchanger for Household Solarized Cooking System: Development and Operationalization
AUTHOR/S : Hemant Raj Singh, Dilip Sharma, Dinesh Kumar Sharma, Sonali Chadha
JOURNAL : Material Today: Proceedings, Volume 47, Part 11, pp-3018-3023, 2021

TITLE : Analog/RF Performance Analysis of a ITZO Thin Film Transistor
AUTHOR/S : Neeraj Jain
JOURNAL : Silicon, Web of Science, Springer 2022, ISSN: 1876-9918

TITLE : Driver's Mate to Prevent Accidents on Sharp Turns in Mountainous Areas
AUTHOR/S : Kiran Rathi
JOURNAL : International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181

TITLE : Effect of TiW blocking Layer and Temperature Annealing on Resistive Switching Parameters of Hafnium Oxide based CBRAM Device
AUTHOR/S : Lalit Kumar Lata, Praveen Kumar Jain
JOURNAL : Engineering Research Express, 2022 ISSN 2631 8695

TITLE : Simulation , Design & Development of a 5G Wireless Communication System Model of the FBMC SET UP of Specific Type of Antennas Tx's & Rx's for Wireless Sensor Network.
AUTHOR/S : Shubhi Jain, P.K Singhal, Deepak Bhatnagar
JOURNAL : Design Engineering, Vol. 1; Issue 7 (2021) pp. 7588—7608

TITLE : Effect of SiO₂ Thickness Variation on Threshold Voltage and Trans Conductance of TFT
AUTHOR/S : Archana Jain, Lalit Kumar Lata, Abhinandan Jain, Praveen Kumar Jain
JOURNAL : SKIT Research Journal, Vol 11 Issue 2 (2021), pp-pp-37-39

TITLE : FPGA Implementation of High Speed Tunable IIR Band Pass Notch Filter for Identification of Hot-Spots in Protein
AUTHOR/S : Vikas Pathak, S. J. Nanda, A. M. Joshi and S. S. Sahu
JOURNAL : International Journal of Circuit Theory & Applications, Wiley Publisher, (2021), [SCI] (DOI: <https://doi.org/10.1002/cta.3131>)

TITLE : Design of Breast Model using Different Dielectric Materials and UWB Antenna for

**A mechanical engineer
is able to do everything.**

-Wouter Van Den Bosch, mechanical engineer

Tumor Detection
 AUTHOR/S : Harshal Nigam, Monika Mathur, Mukesh Arora
 JOURNAL : SKIT Research Journal, Vol.11 ICANCT Proceedings 2021, 48-50

TITLE : Simulation, Design & Development of 5G Wireless Communication System Model of the FBMC Set ups of Specific Type of Antennas Tx's & Rx's for Wireless Sensor Networks.
 AUTHOR/S : Shubhi Jain, P.K Singhal, Deepak Bhatnagar
 JOURNAL : Design Engineering (Toronto), Vol.2021; Issue-7 (2018) pp. 7588 7608

TITLE : Automotive Health Monitoring System
 AUTHOR/S : Simran Arora, Surbhi Sen, Sandeep Singh Rawat, Swati Arora
 JOURNAL : SKIT Research Journal, Vol.11 ICANCT Proceedings 2021, Pages: 11-16, DOI:10.47904/IJ SKIT.11.3.2021.11 16

TITLE : Design and Analysis of LH Miniaturized Microstrip Filter based on DNG
 AUTHOR/S : Shubhi Jain, Gloria Joseph
 JOURNAL : SKIT Research Journal, Vol.11 ICANCT Proceedings 2021, Pages: 17-19 DOI:10.47904/IJSKIT. 11.3.2021.1719

TITLE : Effect of Buffer Layer on Cu (In, Ga) Se₂ Solar Cell Performance
 AUTHOR/S : Satyendra Kumar, Swati Arora
 JOURNAL : SKIT Research Journal, Vol.11 ICANCT Proceedings 2021, Pages: 20-24 DOI:10.47904/IJSKIT.11.3.2021.20 24

TITLE : New Model for Effect of Fringing Fields on Radius of Circular Microstrip Antenna
 AUTHOR/S : S.K. Bhatnagar
 JOURNAL : SKIT Research Journal, Vol.11 ICANCT Proceedings 2021, Pages: 25-28 DOI:10.47904/IJSKIT.11.3.2021.2528

TITLE : A Review Paper on 5G Wireless Technology
 AUTHOR/S : Suman Sharma, Richa Sharma, Kriti Sharma
 JOURNAL : SKIT Research Journal, Vol.11 ICANCT Proceedings 2021, Pages: 29-31 DOI:10.47904/IJSKIT.11.3.2021.29 31

TITLE : Organic Solar Cells–A Review on Revolution in the Photovoltaic Research
 AUTHOR/S : Rupanjali Meena, Praveen Kumar Jain
 JOURNAL : SKIT Research Journal, Vol.11 ICANCT Proceedings

2021, Pages: 32-34
 DOI:10.47904/IJSKIT.11.3.2021.3234

TITLE : A Review on Reconfigurable Antennas for 4G and 5G Wireless Communications
 AUTHOR/S : Arpit Jain, Pallav Rawal
 JOURNAL : SKIT Research Journal, Vol.11 ICANCT Proceedings 2021, Pages: 35-38 DOI:10.47904/IJSKIT.11.3.2021.3538

TITLE : Reconfigurable RF MEMS PIFA Antenna: A Review Study
 AUTHOR/S : Priyanka Jain, Shubhi Jain
 JOURNAL : SKIT Research Journal, Vol.11 ICANCT Proceedings 2021, Pages: 51-54 DOI: 10.47904/IJSKIT.11.3.2021.51-54

TITLE : Simulation , Design & Development of a 5G Wireless Communication System Model of the FBMC SET UP of Specific Type of Antennas Tx's & Rx's for Wireless Sensor Network.
 AUTHOR/S : Shubhi Jain, P.K Singhal, Deepak Bhatnagar
 JOURNAL : Design Engineering, Vol. 1; Issue 7 (2021) pp. 7588—7608

TITLE : Effect of SiO₂ Thickness Variation on Threshold Voltage and Trans-Conductance of TFT
 AUTHOR/S : Archana Jain, Lalit Kumar Lata, Abhinandan Jain, Praveen Kumar Jain
 JOURNAL : SKIT Research Journal, Vol 11 Issue 2 (2021), pp-pp-37-39

DEPARTMENT OF ELECTRICAL ENGINEERING

TITLE : Process Optimization of Biodiesel Production using the Laplacian Harris Hawk Optimization (LHHO) Algorithm.
 AUTHOR/S : Akash Saxena
 JOURNAL : Modelling and Simulation in Engineering, 2022. (ESCI, SCOPUS)

TITLE : Simulation on Supplier Side Bidding Strategy at Day-Ahead Electricity Market using Ant Lion Optimizer
 AUTHOR/S : Kavita Jain and Akash Saxena
 JOURNAL : Journal of Computational and Cognitive Engineering.

TITLE : Quantum Entanglement Inspired Grey Wolf Optimization Algorithm and its Application
AUTHOR/S : Nagraj Deshmukh, Rujuta Vaze, Rajesh Kumar and Akash Saxena
JOURNAL : Evolutionary Intelligence, (Q2-ESCI Indexed) Springer.

TITLE : Chaos Embed Marine Predator (CMPA) Algorithm for Feature Selection
AUTHOR/S : Akash Saxena et al.
JOURNAL : Mathematics, (Q1-SCI, SCOPUS)

TITLE : Hybrid Architecture for Intelligent Bidding in Hourly-Based Electricity Market.
AUTHOR/S : Kavita Jain and Akash Saxena
JOURNAL : International Journal of Swarm Intelligence, 7(2), 217-241. (Inderscience)

TITLE : Numerical Simulation Design of Improved Meta Heuristic Charging Scheduling for Electrical Vehicle Applications
AUTHOR/S : Bharat Bhushan Jain, Nandkishor Gupta, Virendra Swaroop Sangtani, Vikash Kajla
JOURNAL : Mathematical Statistician and Engineering Applications, Vol. 71; Issue 2 (2022) pp. 368379

TITLE : Touch Controlled Switch Board with Multiple Load Switches
AUTHOR/S : Jitendra Singh
JOURNAL : International Journal for Research in Applied Science & Engineering Technology, ISSN: 2321 9653; Vol. 10; Issue 5 (2022) pp.1343—1346.

TITLE : Mathematical Estimation of ATC using PTDF in a Deregulated Electricity System
AUTHOR/S : Shweta Meena, Kavita Jain, Ramesh Chand Meena, Keshav Meena
JOURNAL : SEAS Transactions

TITLE : Appraisal of Available Transfer Capability Determination Methods in Competitive Electricity Market
AUTHOR/S : Shweta Meena, Kavita Jain, Ramesh Chand Meena, Keshav Meena
JOURNAL : ECS Transactions

TITLE : Smart Street Light System based on Arduino
AUTHOR/S : Kavita Jain, Mudit Surana, Prince Meena, Pushpendra Meena, Rahul Meena
JOURNAL : IRJMETS

TITLE : Optimal Placement of DG for Power Loss Minimization: A Review
AUTHOR/S : Gunjan Sharma, Sarfaraz Nawaz
JOURNAL : SKIT Research Journal, Vol. 11; Issue 2 (2021) pp. 55—62

TITLE : Smart Wheelchair for physically Disabled and Visually Impaired Person
AUTHOR/S : Jitendra Singh
JOURNAL : Journal of Microcontroller Engineering and Applications, e-ISSN 2455-197X, Vol- 9, Issue- 1 (2022)

TITLE : Grey Forecasting Models based on Internal Optimization for Novel Corona Virus (COVID19)
AUTHOR/S : Akash Saxena
JOURNAL : Applied Soft Computing Journal, Elsevier (Q1SCI Indexed), November 2021

TITLE : Supervised Learning based Demand Response Simulator with Incorporation of Real Time Pricing and Peak Time Rebate
AUTHOR/S : Ankit Kumar Sharma, Akash Saxena, and D. K. Palwalia
JOURNAL : International Transactions on Electrical Energy Systems (Willey) (Q2-SCI Indexed), December 2021.

TITLE : Transmission Expansion Planning using Composite Teaching Learning based Optimisation Algorithm
AUTHOR/S : Jitesh Jangid, Akash Saxena, Vishu Gupta and Rajesh Kumar
JOURNAL : Evolutionary Intelligence, (Q2-ESCI Indexed) Springer.

TITLE : Kinematic Modeling for Biped Robot Gait Trajectory using Machine Learning Techniques
AUTHOR/S : Bharat Singh, Ankit Vijayvargiya, Rajesh Kumar
JOURNAL : Journal of Bionic Engineering

TITLE : Voting-Based 1D CNN Model for Human Lower Limb Activity Recognition using Sema Signal
AUTHOR/S : Ankit Vijayvargiya, Khimraj, Rajesh Kumar, Nilanjan Dey
JOURNAL : Physical and Engineering Science in Medicine

TITLE : Amended Firefly Algorithm for the Application of Congestion Management in Deregulated Environment

AUTHOR/S : Sneha Sharma & Kavita Jain
JOURNAL : International Journal for Research in Engineering
Application & Management

TITLE : Grey Forecasting Models based on Internal
Optimization for Novel Corona Virus (COVID 19)
AUTHOR/S : Akash Saxena
JOURNAL : Applied Soft Computing, 2021, 111: 107735.
(Elsevier)

TITLE : Transmission Expansion Planning using Composite
Teaching Learning based Optimisation Algorithm
AUTHOR/S : Jitesh Jangid, Akash Saxena, Rajesh Kumar and
Vishu Gupta
JOURNAL : Evolutionary Intelligence, 1-23. (Springer)

TITLE : A Multivariable Transmission Line Protection
Scheme using Signal Processing Techniques
AUTHOR/S : Abhishek Gupta, Ramesh Kumar Pachar,
Baseem Khan, Om Prakash Mahela & Sanjeevi
kumar Padmanaban
JOURNAL : IET Generation, Transmission & Distribution
(2021). Publisher: The Institution of Engineering
and Technology & WILEY, PP: 123.

TITLE : PI Controller SVPWM based Shunt Active Power
Filter for Hybrid/ Mixed Load
AUTHOR/S : Abhishek Gupta and Shubhra Jain
JOURNAL : SKIT Research Journal, PP: 41-46, Volume 11,
Issue 1 (2021).

TITLE : Mathematical Modelling and Characteristic
Analysis of Solar Photovoltaic System under
Partial Shaded Condition
AUTHOR/S : Aditi Kumar Shukla and Abhishek Gupta
JOURNAL : SKIT Research Journal, PP: 19-23, Volume 11,
Issue 1 (2021).

TITLE : A hybrid WD-EEMD sEMG Feature Extraction
Technique for Lower Limb Activity Recognition
AUTHOR/S : Ankit Vijayvargiya, Vishu Gupta, Rajesh Kumar,
Nilanjan Dey, João Manuel RS Tavares
JOURNAL : IEEE Sensors Journal

TITLE : Development of Automatic Switching Mechanism
for Multiple- Source (Hybrid) Power System
AUTHOR/S : Deepti Arela
JOURNAL : International Journal of Research and Analytical
Reviews (IJRAR) Volume 8, Issue 3, E ISSN 2348
1269, P- ISSN 2349-5138

DEPARTMENT OF CIVIL ENGINEERING

TITLE : Design and Enhancement of City Park
Transport Infrastructure Facilities
AUTHOR/S : Anirudh Mathur
JOURNAL : Materials Today Proceedings, ISSN: 2214-7853

TITLE : A Literature Review on the Effect of using Ceramic
Waste as Supplementary Cementitious Material in
Cement Composites on Workability and
Compressive Strength
AUTHOR/S : Pooja Jain
JOURNAL : Materials Today Proceedings, ISSN: 2214-7853

TITLE : Utilization of Waste Materials from Marble
Processing Industry for Sustainable Pavement
Design
AUTHOR/S : Prachi Kushwaha
JOURNAL : Materials Today Proceedings, ISSN: 2214-7853

TITLE : Numerical Simulation of the Dynamic Response of
Batter Piles and Pile Groups
AUTHOR/S : M. Bharathi
JOURNAL : Bulletin of Earthquake Engineering, e- ISSN 1573
1456

TITLE : Dynamic Response of Underreamed Batter Piles
subjected to Vertical Vibration
AUTHOR/S : M. Bharathi
JOURNAL : International Journal of Geotechnical Engineering,
ISSN 1938-6362

TITLE : Experimental Investigation on Stabilization of
Subgrade Soil using Bio-Enzymatic Additive for
Pavement Construction
AUTHOR/S : Prachi Kushwaha
JOURNAL : Innovative Infrastructure Solutions, e -ISSN 2364
4184

TITLE : Utilization of Marble Dust and Fly Ash in Composite
Mortar as Partial Cement Substitute
AUTHOR/S : Rakesh Choudhary
JOURNAL : Materials Today Proceedings, ISSN 2214-7853

TITLE : Recycling of Bone China Ceramic Waste as Cement
Replacement to Produce Sustainable Self Compacting
Concrete
AUTHOR/S : Abhishek Jain

- JOURNAL : Structures, ISSN 2352-0124
 TITLE : Effect of Granite Industry Waste Addition on Durability Properties of Fly Ash Blended Self Compacting Concrete
 AUTHOR/S : Abhishek Jain
 JOURNAL : Construction and Building Materials, ISSN 0950 0618
 TITLE : Experimental Investigation on Stabilization of Subgrade Soil using Bio-enzymatic Additive for Pavement Construction
 AUTHOR/S : Prachi Kushwaha
 JOURNAL : Innovative Infrastructure Solutions, Springer, 20 January, 2022. DOI: 10.1007/s41062-022 007529
 TITLE : Dynamic Response of Underreamed Batter Piles Subjected to Vertical Vibration
 AUTHOR/S : M. Bharathi
 JOURNAL : International Journal of Geotechnical Engineering 10 January, 2022. pp 1-1. DOI: 10.1080/19386362.2021.2025304.
 TITLE : A Study on Safety Regains of BRTS Corridor Intersection
 AUTHOR/S : Anirudh Mathur, Nishant Sachdeva
 JOURNAL : SKIT Research Journal, Vol 11 Issue 2 (2021) pp 01-05, ISSN 2278-2508 (P) 2454-9673(O)
 TITLE : Use of Demolished Recycled Aggregate for Pavement Construction: A Review
 AUTHOR/S : Prachi Kushwaha, Nishant Sachdeva
 JOURNAL : SKIT Research Journal, Vol 11, Issue 2 (2021) pp 22-26, ISSN 2278-2508 (P) 2454-9673(O)
 TITLE : Evaluation of Existing Pedestrian Facilities and its Potential Improvements
 AUTHOR/S : Anirudh Mathur, Nikhil Kumar Sharma
 JOURNAL : SKIT Research Journal, Vol 11, Issue 2 (2021) pp 16-21, ISSN 2278-2508 (P) 2454-9673(O)
 TITLE : Introduction to Traffic Calming Measures & Analysing the Level of Service of an Urban Street: A Stakeholder Survey
 AUTHOR/S : Anirudh Mathur, Prachi Kushwaha
 JOURNAL : SKIT Research Journal, Vol 11, Issue 2 (2021) pp 11-15, ISSN 2278-2508 (P) 2454-9673(O)
 TITLE : Comparative Study of Physical Properties on Conventional and Modified Binder
 AUTHOR/S : Prachi Kushwaha, Anirudh Mathur
 JOURNAL : SKIT Research Journal, Vol 11, Issue 2 (2021) pp 27-30, ISSN 2278-2508 (P) 2454-9673(O)
 TITLE : Effect of Fiber Volume Fraction of Waste Originated Tire Fiber and w/c Ratio on Mechanical Properties of Functionally Graded Concrete
 AUTHOR/S : Abhishek Jain
 JOURNAL : Iranian Journal of Science and Technology, Transactions of Civil Engineering, 12 November 2021, DOI: 10.1007/s40996-02100778-6
 TITLE : Valorization of Bone-China Ceramic Powder Waste along with Granite Waste in Self Compacting Concrete
 AUTHOR/S : Abhishek Jain
 JOURNAL : Construction and Building Materials 315 (2022) 125730 23 November 2021, <https://doi.org/10.1016/j.conbuildmat.2021.125730>
 TITLE : Mechanical and Microstructural Characterization of Fly Ash Blended Self Compacting Concrete Containing Granite Waste
 AUTHOR/S : Abhishek Jain
 JOURNAL : Construction and Building Materials 314 (2022) 125480 13 November 2021, DOI: <https://doi.org/10.1016/j.conbuildmat.2021.125480>
 TITLE : Recycling of Bone China Ceramic Waste as Cement Replacement to Produce Sustainable Self-Compacting Concrete
 AUTHOR/S : Abhishek Jain
 JOURNAL : Structures 37 (2022) 364–378 15 January 2022 pp 364-378, <https://doi.org/10.1016/j.istruc.2022.01.019>
 TITLE : Utilization of Marble Dust and Fly Ash in Composite Mortar as Partial Cement Substitute
 AUTHOR/S : Rakesh Choudhary
 JOURNAL : Materials Today ISSN: 2214-7853, PP 01-06, <https://doi.org/10.1016/j.matpr.2021.12.301>
 TITLE : Valorization of Bone China Ceramic Powder Waste along with Granite Waste in Self Compacting Concrete
 AUTHOR/S : Abhishek Jain
 JOURNAL : Construction and Building Materials, 15 November 2021
 TITLE : Mechanical and Microstructural Characterization of Fly Ash Blended Self-Compacting Concrete Containing Granite Waste.

AUTHOR/S : Abhishek Jain
JOURNAL : Construction and Building Materials Vol. 314, 13
November 2021, pp. 125480.

TITLE : Effect of Fiber Volume Fraction of Waste Originated
Tire Fiber and w/c Ratio on Mechanical Properties
of Functionally Graded Concrete.

AUTHOR/S : Abhishek Jain
JOURNAL : Iranian Journal of Science and Technology,
Transactions of Civil Engineering, Springer, 25
October 2021, pp. 01—18.

TITLE : Utilization of Non-Metalized Plastic Bag Fibres
along with Fly Ash in Concrete.
AUTHOR/S : Abhishek Jain
JOURNAL : Construction and Building Materials Vol. 291, 12
July 2021, pp. 123329.

TITLE : Mechanical Properties of Ground Granulated
Blast Furnace Slag Made Concrete
AUTHOR/S : Kishan Lal Jain
JOURNAL : Community Based Research and Innovations
in Civil Engineering, July 2021

TITLE : Permeation, Corrosion, and Drying Shrinkage
Assessment of Self-Compacting High Strength
Concrete Comprising Waste Marble Slurry and
Fly Ash, with Silica Fume.
AUTHOR/S : Abhishek Jain
JOURNAL : Structures, Elsevier, Vol. 33, 14 May 2021, pp.
971-985.

DEPARTMENT OF CHEMISTRY

TITLE : Biofuels: Indian Scenario-A Review
AUTHOR/S : Swati Joshi, Dheeraj Joshi
JOURNAL : Ecology, Environment and Conservation, Vol. 28;
(2022) pp. 562-565

TITLE : Green Chemical Methods for Reduction of
Levulinic acid
AUTHOR/S : Poonam Ojha, P. S. Verma and I. K. Sharma
JOURNAL : Ecology, Environment and Conservation, Vol. 28;
(2022) pp. 558-561

TITLE : Excess of Fluoride and Nitrate in Ground Water of
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AUTHOR/S : Ranjana Agarwal, Rashmi Nair and Poonam Ojha
JOURNAL : Ecology, Environment and Conservation, Vol. 28;
(2022) pp. 548-550

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AUTHOR/S : Surbhi Sharma
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TITLE : Adomian Decomposition Method for a class of
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AUTHOR/S : Jyoti Arora
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AUTHOR/S : Vijay Kumar Singhal, Nawal Kishore Jangid and
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AUTHOR/S : Deepika Jain, Alok Bhargava
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AUTHOR/S : Rajiv Kumar
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TITLE : Comparative Study of Thermal and Optical
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AUTHOR/S : Ajay Kumar Sharma, Manasvi Dixit
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ISSN:2306-4277 (Dec. 2021)

TITLE : Effect of 532 nm Nd:YAG laser Irradiation on
the Optical Properties of Ge1Se2.5 Glass Film

AUTHOR/S : Manasvi Dixit
JOURNAL : Journal of Modern Optics, ISSN: 0950-0340 (2021)

TITLE : Recent Innovations in Properties of Nanostructured
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AUTHOR/S : Manasvi Dixit
JOURNAL : Journal of Experimental Nanoscience,
ISSN:1745-8080, (2021)

AUTHOR/S : Nidhi Sharma
JOURNAL : International Journal of English and Studies,
Volume 4, Issue-2, pgs-33-39

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AUTHOR/S : Nidhi Sharma
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Volume 3, Issue-10, pgs-199-209

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AUTHOR : Sheeba Anjum
JOURNAL : Academia Letters, July Issue, 2021

DEPARTMENT OF ENGLISH

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Works of Isolation

AUTHOR : Dr. Sheeba Anjum
JOURNAL : SKIT Research Journal, Vol 11, issue 2

TITLE : Using Films as a Teaching Device for Non
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AUTHOR/S : Nidhi Sharma
JOURNAL : International Journal of English and Studies,
Volume 4, Issue-2, pgs-83-86

TITLE : New Directions in Culture Preservation using
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AUTHOR/S : Nidhi Sharma
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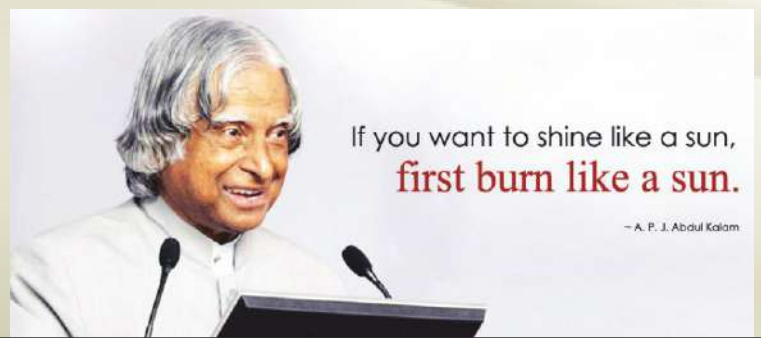
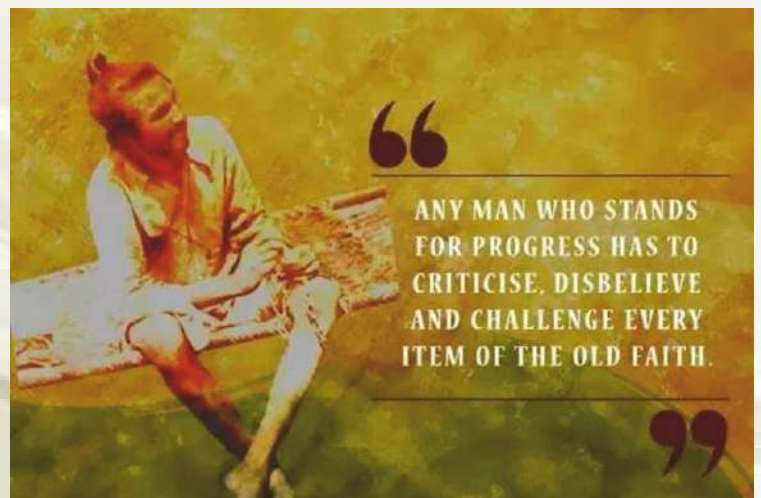
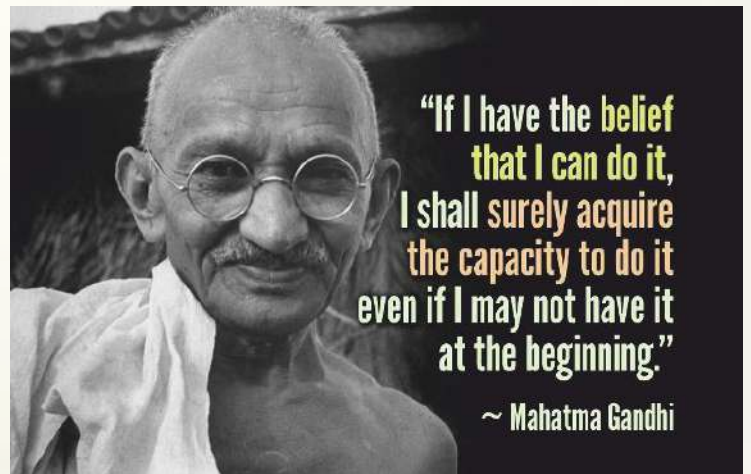
TITLE : How to Mind a Map: Learner-Centric Tool for
Enhancing Creativity

AUTHOR/S : Nidhi Sharma
JOURNAL : International Journal of English and Studies,
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TITLE : The Effective Manager: Few Strategies for
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AUTHOR/S : Nidhi Sharma
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TITLE : Madness in the Attic: Foregrounding
Psychopathology in the Short Stories of Amanda
Lee Koe



TEACHING AS A PROFESSION AND ITS RELEVANCE

Some of the many reasons for me to be so passionate about the same are:

1. **A True Vocation: Job Satisfaction:** Teaching job gives satisfaction. It's a true vocation. Much like doctors and nurses, teaching is more than just a job. Many people work to live, but the rewarding nature means teachers get job satisfaction unmatched by most professions.
2. **Inspire the Next Generation:** Along with parents, teachers play a key role in making a student's life. Therefore, it is not only a profession but also a responsibility.
3. **A Passion for the Subject:** There are few who can use their passion in their jobs. Teachers get the opportunity to do this every day and they also try to instill this enthusiasm in their students.
4. **Earn Respect:** This profession gets high respect in the society. Family also feels proud of their people in this profession.
5. **Salary Benefits:** Money is required for everyone to sustain activities and to meet needs of life. A career in teaching provides generous financial packages also.
6. **International Opportunities:** There are chances of international exposure through exchange programmes, collaborative research etc.
7. **Job Security:** Due to competence and knowledge a teacher is always needed in a society. Everyone wants to teach one's children, therefore as a profession it is always in high demand. Unlike much of the private sector, teaching offers great job security.
8. **Lifelong Learning:** Teaching encourages one to learn continuously. Students are inquisitive, they keep asking questions one would never think of. This allows a teacher to constantly research new findings and technologies to share them with students.
9. **Always Enthusiastic and Energetic:** Teaching not only transfers knowledge from teachers to students, but it also brings about exchange of thoughts and working with the young generation. Therefore, a teacher always remains energetic, enthusiastic and active.

Teaching is a profession which requires vast knowledge, expertise of the subject, confidence, communication skills, organizational skills and above all an insight to understand the students.

There are hardly a few things as rewarding, as making a tangible difference in shaping the lives of young people by reaching, inspiring and mentoring them to become the best they can be.

Prof. Archana Saxena
Professor, Department of Chemistry

THE ART OF NOW 'LIVING IN THE MOMENT'

We live in the age of distractions. Yet one of life's sharpest paradoxes is that one's brightest future hinges on one's ability to pay attention to the present.

Life unfolds in the present. But so often, we let the present slip away, allowing time to rush through the past and the future which is unobserved and unseized, thus squandering the precious seconds of our lives in worrying about the future and ruminating about the past. "We're living in a world that contributes in a major way to mental fragmentation, disintegration, distraction, decoherence," says Buddhist scholar B. Alan Wallace. We're always doing something, and we allow little time to practise stillness and calm.

We often hear people talk about the importance of 'living in the moment' and the different ways it will benefit us. It all sounds wonderful, especially when one is at the lower levels of stress and anxiety, but how exactly can we live in the present when our mind is constantly worrying about the past or planning for the future?

"The secret of health for both mind and body is not to mourn for the past, worry about the future, or anticipate troubles, but to live in the present moment wisely and earnestly." -Buddha

By reducing stress and anxiety, one can avoid many of the associated health consequences, such as high blood pressure, heart disease, and obesity. Studies have shown that 'living in the moment' can improve psychological well-being. Worrying, on the other hand, involves unrealistic thinking. We may worry about a problem that doesn't exist at all and may not exist in future as well. There is no doubt about the fact that human beings find it difficult to deal with uncertainties, which are a part and parcel of life.

Certainly, some of our problems may not have desirable outcomes. Some problems may be beyond our control, such as civil unrest or economic downturn. In such cases, it can be hard to avoid worrying, but not impossible.

Live as if you will die today.

Learn how to 'live in the moment' with these six ideas:

1. FOCUS ON THE NOW
2. PAY ATTENTION TO THE SMALL THINGS
3. SMILE
4. PERFORM RANDOM ACTS OF KINDNESS
5. GIVE THANKS
6. DON'T WORRY

Practising mindfulness is like regularly putting small amounts of change in a jar. They will all add up over time, and this will add up to a greater peace and happiness as one starts 'living in the moment'.

The benefits of living in the moment are well within one's reach, no matter how much the mind is racing. If one sticks with the mindfulness practices, one will learn how to 'live in the moment' and stops worrying.

The result: a happier and more fulfilling life.

-Ishita Vyas
IT, 4th sem, IT

INDIAN WOMAN'S CURRENT SCENARIO

"It is impossible to think about the welfare of the world unless the condition of women is improved. It is impossible for a bird to fly on only one wing." — Swami Vivekananda

A big Indian tragedy is that we talk about women's positing in society, in the one hand we have top business, education centrewere top Indian educated woman working and in another hand we have an strange part of rural Indian female position.

Women are not born, but made. What better than India to exemplify this statement by Simone de Beauvoir. With the whole world celebrating International Women's Day with great pomp and show, it would be only apt to analyze the position and space Indian women occupy today, and comparing it to the times 60 years ago when the country had just gained independence. With the women participating in nationalist movements to being pushed into the domestic household space, to their resurgence as the super-women today, women in our country have seen it all.

There have been innumerable debates about gender in India over the years. Much of it includes women's positing in society, their education, health, economic position, gender equality etc. What one can conclude from such discussions is that women have always held a certain paradoxical position in our developing country. On other hand, the country has seen an increased percentage of literacy among women, and women are allowed to enter into professional fields, while on the other hand the practices of female infanticide, poor health conditions and lack of education still persisting still continue. Even the patriarchal ideology of the home being women's real domain and marriage being her ultimate destiny hasn't changed much. The matrimonial advertisements, demanding girls of the same caste, with fair skin and slim figure, or the much criticized fair and lovely ads, are indicators of the slow changing social mores. If one looks at the status of women then and now, one has to look at two sides of the coin; one side which is promising, and one side which is bleak.

Though a number of constitutional amendments were made for women's social, economic and political benefits, yet they were never effective to bring a radical change in the situation. Women had only the role of a 'good wife' to play, and if a woman ventured out to work, she was seen as a fast fast woman, going against societal norms. Women were expected to cook food and eat only after the men, with whatever meager amount of food is left. This led to rampant malnutrition among women, and an extremely poor health status. Around 500 women were reported to die every day due to pregnancy related problems due to malnutrition, and getting married before 18. What do you think?

With time, a lot has changed since those dark ages of the 1950s for the women. Though at some levels like dowry, crimes like rape, sexual harassment at office or public places, and molestation, eve-teasing, even after over sixty years of independence women are still exploited, which is the shameful side of our country. Yet one can't deny that the situation has improved since the earlier times. Girl dropout rates have fallen by 16.5% between the year 2000 and 2005. Programs like 'Sarva Shiksha Abhiyan' and 'Saakshar Bharat Mission for Female Literacy' has helped increase the literacy rates from less than 10 percent to more than 50% today. The result of this is that India has world's largest number of professionally qualified women. In fact India has the largest population of working women in the world, and has more number of doctors, surgeons, scientists, professors than the United States.you think?

Women of India slowly started recognizing her true potential. She has started questioning the rules laid down for her by the society. As a result, she has started breaking barriers and earned a respectable position in the world. Today Indian women have excelled in each and every field from social work to visiting space station. There is no arena, which remains unconquered by Indian women. Whether it is politics, sports, entertainment, literature, technology everywhere, its women power all along. The

Modern Indian woman, does not let social constraints to keep her behind, but prioritizes her education or her career before anything else.

From a time when there no woman writer in India who was taken seriously, today names like Arundhati Roy, Anita Desai, Kiran Desai, Shobhaa De, Jhumpa Lahiri can put any other writer to shame. In the field of cinema, women like Rekha, Smita Patil, Shabana Aazmi, Vidya Balan, Kangana Ranaut and Konkona Sen are such names who don't play feminized roles, but have asserted themselves over this male-dominated realm. In the field of Politics, from Indira Gandhi to Shiela Dixit, Uma Bharti, Jayalalitha, Vasundhra Raje and Mamata Banerjee today, women are making their presence felt.h

Today modern woman is so deft and self-sufficient that she can be easily called a superwoman, juggling many fronts single handedly. Women are now fiercely ambitious and are proving their metal not only on the home front, but also in their respective professions. Women in Indian are coming up in all spheres of life. They are joining the universities and colleges in large numbers. They are entering into all kinds of professions like engineering, medicine, politics, teaching, etc. A nation's progress and prosperity can be judged by the way it treats its women folk.

Despite progress, the very fact that women, along with being achievers, also are expected to fulfill their roles as wives or mothers, prioritizing home against anything else. This point of view hasn't changed much. There is still a large section of women who are uneducated, and married off before the age of 18. Families are required to supply a chaste daughter to the family of her future husband. Also very few women are actually employed in good-paying jobs, and hence parents don't see the point of spending money on girls' education.

Dr. Nilam Choudhary
Associate Professor CSE



Dr. Niketa Sharma
Associate Professor CSE

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॥ शहीद दिवस ॥

हसँते हसँते वो झुल गए फांसी पर, 'इंकलाब जिंदाबाद'
 'इंकलाब जिंदाबाद' गाते हुए ।
 चेहरे पर ना डर था, ना ही खौफ मरने का जिसे देख
 गोरे भी घबराए हाँफते हुए।
 जब जब मैं पढता हूँ उनके बारे में, महसूस करता हूँ
 वो दृश्य जीवंत सा ।
 कैसी गजब देशभक्ति थी, कैसा गजब जोश था,
 आजादी के लिए आँसू है आँसू में उनकी
 जवानी को याद करते हुए ।

Shailesh Purohit-2nd Sem, CSE

॥ हाँ, मैंने देखा है ॥

हाँ मैंने देखा है उस मेवाड़ी को रण में,
 कटते गिरते और फिर उठते एक क्षण में ।

हाँ मैंने उस स्वाभिमानी महाराणा को देखा है,
 मैंने उस एकलिंग के दीवान को लड़ते देखा है।

हाँ मैंने देखा है उस जयसिंह सा गद्दार,
 जिसने अपनी बहन ब्याही अकबर के दरबार ।

और देखा है मैंने उस चेतक सा वफादार,
 घायल था, पर कूद कर नाला कराया पार ।

हाँ मैंने भामाशाह जैसे मित्र को देखा है,
 और मैंने झाला मान सा अडिग राजपूत देखा है।

और देखा है मैंने उन क्षत्राणियों को,
 जिन्होंने मुगलों को आता देख हंसते हंसते अपना लिया जौहर को ।

Shailesh Purohit-2nd Sem, CSE

अपनी अस्मिता को पहचान तू ज़रा ।
 कौन है तू, खुद को जान तू ज़रा ॥
 वयों उलझे रास्तो में ढूँढता है मंजिल को ।
 फ़क़त बिखरे मंज़र है ये, मान तू ज़रा ॥

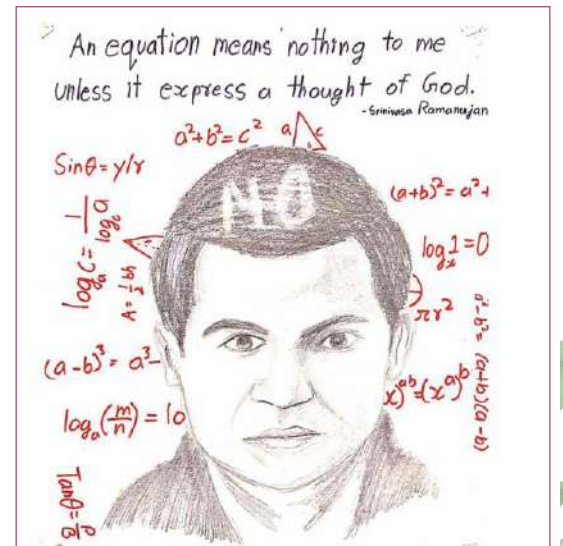
खो कर सब कुछ भी, सब तेरे पास है ।
 माना हाथ खाली है, पर अब भी जीने की आस है ॥
 कर खुद पर भी, कोई एहसान तू ज़रा।
 अपनी अस्मिता को पहचान तू ज़रा ॥

रातें कहती हैं, सुबह फिर आयेगी ।
 ढलती शाम बताती है, शब भी मुस्कुरायेगी ॥
 वयों सितारों की महफिल में ढूँढता है आफ़ताब को ।
 होगी सहर फिर, रख इत्मिनान तू ज़रा ॥

आना - जाना ये सब तो किस्मत के खेल है ।
 ये दुनिया महज एक सुख - दुःख की जेल है ॥
 बंद कर जलना तन्हा, ए परवान तू ज़रा ।
 तेरी शमा तुझ ही में है, पहचान तू ज़रा ॥

कब तलक मालेगा, बातें दुनिया की ।
 कब तलक भटकेगा, डगर ख्वाबों की।।
 कर कुछ अपने मन की भी, ऐ इंसान! तू ज़रा ।
 अपनी अस्मिता को पहचान तू ज़रा ॥

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