



SWAMI KESHVANAND INSTITUTE OF  
TECHNOLOGY, MANAGEMENT & GRAMOTHAN

शारदीय अंक 49



BY  
RAJASTHAN TECHNICAL  
UNIVERSITY (RTU), KOTA



CONSECUTIVELY FOR 5th YEAR

# SKIT TIMES



Let's All Work Together to  
Protect Our Cultural Heritage



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## VISION

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

## MISSION

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

## CONTENT

1. COVER STORY	2
2. NEWS FLASH	3-6
3. ECA CELL ACTIVITIES	7-12
4. DEPARTMENTS OF CSE & IT	12-17
5. DEPARTMENT OF ME	17-21
6. DEPARTMENT OF ECE	22-25
7. DEPARTMENT OF EE	25-28
8. DEPARTMENT OF CE	28-29
9. DEPARTMENT OF MBA	30
10. DEPARTMENT OF SC. & HUM	30-37
11. PAPERS PUBLISHED	37-40
12. सृजन	41

# THE EDITOR SPEAKS



## WE ARE THE CREATORS OF OUR LIVES

Identity is not static, but it is in flux- constantly evolving. The human beings can continuously evolve their identity by making choices.

We are defined by what we do, how we act in our lives. We are always free to make choice and guide our lives towards our own chosen goal. Although external circumstances may limit individuals, but they cannot force a person to follow one of the remaining courses over another. In this sense, the individual still has some freedom of choice Jean Paul Sartre has said "man first of all exists, encounters himself, surges up in the world—and defines himself afterwards". Radhakrishnan also shares the similar viewpoint. He asserts, that the human is essentially subject, not object to be adjusted or moulded into roles --to be only a waiter or a conductor or a mother or worker. We must look deeper than our roles and find ourselves.

Freedom to make choice is also associated with accountability and potential consequences which often put people into a quandary –to make a choice or not to make a choice and sometimes they fall into a pattern of blaming others and the world in order to escape from the responsibility of defining themselves. Because of all these fears and under pressure from social forces, people adopt ad-hoc values and beliefs and thus act inauthentically. This is a state where human beings are deceiving themselves. We prefer to opt for the choice which is convenient for us. We are afraid of making choices for fear of impending repercussions. Thus, the person is more akin to an object than to a conscious human being

The human beings should be ready to confront, rather than escape the fundamental truths of existence no matter how frightening they are. Beauvoir says that in order to respond ethically to the problems, we need to 'look truth in the face'.

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Dr. Anupriya Singh  
EDITOR-IN-CHIEF



# SKIT: PRESERVING THE CULTURAL HERITAGE

It is high time that we should teach our students the importance of cultural heritage, so that, they may not get alienated from their cultural roots. Teaching about cultural heritage may not be helpful for the students, but by conducting workshops, stage performances and other such events, we can exhort them to connect and appreciate their cultural heritage. This deeper understanding will help them to broaden their horizon which will encompass other cultures of the world too. They can visualize the grand scheme of things and be able to look beyond “My World”. They will understand how big our world is, and how much connected we all are as human beings through our culture. Cultural heritage is something that all human beings share. Young people should learn that culture is not just created by historical figures, famous people, or those living in other places, but it is created in everyday life by all of us in our various communities- families, schools, neighbourhoods, and in ethnic, occupational, or other kinds of groups. Students should be taught to appreciate and respect their own culture as well as other cultures of the world. This will inspire them to look at their place in the world with the realization of it being a part of grand scheme of things.

In order to inspire the students to connect to their culture, SKIT established SPIC MACAY club in 2016 under the aegis of SPIC MACAY society which works for the promotion of Indian Classical music and culture amongst youth. It is a voluntary youth movement which promotes intangible aspects of Indian cultural heritage by promoting Indian classical music, classical dance, folk music, yoga, meditation, crafts and other aspects of Indian culture. Since then, the club has been actively organizing events such as Sitar performances by Irshad Khan and Pandit Kushal Das, Vocal performance by Pandit Rajaram Kale, Inter-College Heritage Meet, Classical performance by Kalapini Komkali, Shahanai performance by Pandit Dayashankar, Dhrupad performance by Prashant Malick & Nishant Malick, Manipuri dance by Bimbavati Devi, Anubhav-3 workshop, Bharatnatyam dance performance and many others.

SKIT is playing an active role to sensitize its students towards cultural heritage, so that, they feel the responsibility of contributing to, understanding and shaping the culture and traditions of their communities. This will help them to build their self-esteem and pride in self, community and cultural heritage. It will foster tolerance to cultural diversity.

**LET'S ALL WORK TOGETHER TO PROTECT OUR CULTURAL HERITAGE**  
**Dr Anupriya Singh, Assistant Professor, Department of English**

## '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 Hri Surja Ram Meel, Chairman, SKIT.



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.

## FREE COVID- 19 VACCINATION CAMPS HELD AT SKIT

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, organized three Covid-19 vaccination camps on 31 July, 10 & 17 September, 2021 for the faculty, staff members and for people of nearby areas. These vaccination camps were intended to provide timely benefits of vaccine to more and more people so that a collective immunity could be developed in order to save the society from the impending danger of corona. Shri Jaipal Meel (Director SKIT), Prof. Ramesh Kumar Pachar (Principal SKIT) thanked the State Government for giving SKIT, the opportunity to organize the vaccination camps. Dr. Hiteshikha and Mr. Dharmendra Choudhary



supervised the vaccination drive from 10 a.m. to 4 p.m. SKIT provided full logistic support to the Health Department, Govt. of Rajasthan for successfully organizing the camps. The faculty, staff and the people of nearby areas were immensely benefitted by these frequent and free vaccination camps.

## 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.

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





Glimpse of IPR CELL Established In Skit

## 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.



New Launch: IPR Cell @ SKIT Jaipur

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.

**THE PERSON WHO TALKS MOST OF HIS OWN VIRTUE IS OFTEN THE LEAST VIRTUOUS.**

## 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 amongst top hundred Local Chapters in India. This rating is based on performance in NPTEL Online Certification courses.

## 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.



Komal Kanwar Koravat , III Sem, Dept. of CE

## 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%



# ECA CELL ACTIVITIES

## 'MEMORIES ON SNAP': CELEBRATING THE BOND BETWEEN MOTHER & CHILD

*"A Mother is she who can take the place of all others, but whose place no one else can take"*

Mother's Day is the celebration which honours such unbelievable selfless humans that take care of us and nurture us through our lives. Keeping this bonding emotion in mind, the ECA cell of SKIT, hosted an event "Memories on snap" on May 9, 2021 to celebrate the everlasting bond of love and affection between children and mothers. Students planned surprises for their mothers & grandmothers, captured the moment in a snap and cherished the memory. The event was hosted by Yayati and co-ordinated by Mr. Kailash Soni (Chief coordinator ECA cell). E- Certificates were issued to all participants.

## TREASURE HUNT CUM QUIZ COMPETITION 'THE COFFER RUSH' ORGANIZED

An online treasure hunt cum quiz competition 'THE COFFER RUSH' was organized by ECA-CELL from 11 July 2021 to 14 July 2021. The event aimed at boosting self-confidence and developing cognitive abilities among students. It comprised several time bound games to be completed in three rounds. The first round- 'Let's Get Quizzical' comprised 45 multiple choice questions related to general knowledge and trending and relevant entertainment content, the second round- 'Scribbles' was a fun game played on online platform [www.drawasaurus.org](http://www.drawasaurus.org) and the third round-'Final Round' had two segments- Guess and Fetch and Face the Chaos, with each round being eliminating round on the basis of spontaneity, general knowledge and precision.. E-certificates were provided to all participants. The event was coordinated by Vinit Kumar Shah, Mehak Jain, Yayati, Eshita Goyal, Hardik Sharma, Akshat Surana, Chirag Sharma, Ruchika Jain and Trivi Jain.

## 'BRING OUT THE REAL YOU': REFRESHING THE STUDENTS' MINDS

In this online era where student interaction has become minimal, ECA Cell tried to boost up students, by organizing an event, in which the students were asked to send short videos of themselves singing, dancing or doing anything they liked which was followed by a trivia of 4-5 questions on how students viewed these online classes and their experiences or any funny instance they had. Also some students came up with activities like Beat-boxing, 3-D modelling, Cube solving and Dribbling etc. These kind of activities are not only fun but also help students know each other better and get to know other students with similar interests. The video was also



released on social platforms of ECA. It has gained 3.4k+ views in a span of 3 months and still counting.

All the participants were given e- certificates of participation. The event was coordinated by Vinit K. Shah, Akshat Surana, Hardik Sharma and Chirag Sharma under the guidance of Mr. Kailash Soni, former Chief Coordinator, ECA Cell.

## 'LEARN, COMPLY AND DEVELOP' WEBINAR ORGANISED

The ECA Cell of SKIT in collaboration with ASME student section, organized a seminar "Learn, Comply and Develop" on 14 August, 2021. In this seminar, the special guest was Ms. Meeta Mathur (career & communication coach and business strategist. The prime focus of this webinar was on upgrading the communication skills for better portrayal of an individual's personality. Ms Meeta gave some tips to gain self-confidence. She also shared her own life experiences for better understanding. Besides this, some other subtopics like Interview Skills, Public Speaking, Sales, Negotiation and Persuasion were also discussed.

The webinar was coordinated by Trivi Jain, Vinit Kumar Shah, Yayati, Eshita Goyal, Akshat Surana, Hardik Sharma and Chirag Sharma.

## 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.

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.

## INTRA -COLLEGE DANCE COMPETITION 'UTSAV' ORGANIZED



'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 & Sakshi Khandelwal stood first, second & third respectively. The faculty coordinator was Ms Nikhar Bhatnagar.

## 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.

## CLUB LEVEL EVALUATION SPEECH CONTEST & CLUB LEVEL TABLE TOPIC CONTEST BY TOASTMASTERS CLUB

Club Level Evaluation Speech Contest and Club Level Table Topic Contest were conducted by SKIT Toastmasters Club, Jaipur on 3 October, 2021. There were 5 participants in each of the two contests. Both the contests lasted for a duration of one hour each and were chaired by Toastmaster Neha Purohit. The Chief Judge for both the contests was Toastmaster Pramila Bafna. In the Club Level Evaluation Speech Contest- TM Sakshi Khandelwal, TM Rishit Rastogi and TM Akshat Pareek secured 1st, 2nd and 3rd position,

respectively, while in the Club Level Table Topic Contest- first, second and third place went to TM Sarjana Borana, TM Rishit Rastogi and TM Sakshi Khandelwal, respectively.

TM Sakshi Khandelwal and TM Sarjana Borana will now proceed to represent the SKIT Toastmasters Club at the Area Level Contest which will be organised by Area C2 of Division C of District 41 , Toastmasters International.

## TREE PLANTATION EVENT BY ECO FRIENDS CLUB

On 2 October, 2021, the occasion of birth anniversary of our Father of Nation, Mahatma Gandhi, Eco friends Club organized a tree plantation event. Participants were asked to plant a tree at their homes and send the pic of plantation to the organizers of the event. Varun Kumar Meena, Manu Choudhary, Kareena Khanna, Shruti Dubey, Yash Saini, Vaibhav Vyas and Nishita Mathur participated in the event.



Glimpse of TREE PLANTATION

## 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 Robotics Club, SKIT and Enovate Skill, a start-up of NITTR 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. He 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 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 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 MUSIC CLUB

### EVENT 1: INTRA- COLLEGE SINGING COMPETITION

SKIT Music Club organized an intra college singing competition "SKIT IDOL" on 2 May, 2021. The event was organized in three rounds. Short videos were posted on SKIT Music Club's Instagram handle (@musicclubskit). The chief guest of the event was Mr. Someshwar Mahadevan (singer, actor & director). The first three positions were awarded to Jatin Pandita, Liladhar Gadwal and Priyansh Dadheech, respectively.



### EVENT 2: 'DIGITOUR'- A VIRTUAL LIVE EVENT

SKIT Music Club in collaboration with the band "Atrangi Funkaar" organized a live musical event at Instagram, (@musicclubskit) on 20 October, 2021. It was a promotional event. The artists promoted their few albums by performing them live and engaging with the audience.

## EVENTS ORGANIZED BY DOCU-DRAMA CLUB

### EVENT 1: 'ALTERNATE ENDINGS'

Docu-Drama club of SKIT organized "Alternate Endings", an inter-college competition on 18 July, 2021. The participants were asked to change the ending sequence of their favourite movie/show, thereby creating a new version of the story. The winners were announced on the official Instagram handle of the page. Moksh Avasthi, Pulkit Sharma and Muskan Meena secured first, second and third position, respectively. The award for the best script went to Atishayee Singh and that for the best presentation went to Akshita Sharma. The event was coordinated by Neha Maheshwari.

### EVENT 2: 'THAT'S MY JOB'

Every time we run our brain; it is stimulated to the best. The event was organized on 12 September, 2021. The participants were divided into teams of equals and they were asked to guess some jobs/professions which were known to only the core members of the club. The event was full of fun and involved intense brain storming as the teams were put limited number of questions and were given few hints. The members of the winning team were Prachi Vyas, Shrishti Kulshrestha, Ritesh Lavti and Swati Aggarwal. The event was coordinated by Pranaya Vashistha.

### EVENT 3: DOCUMENTARIES

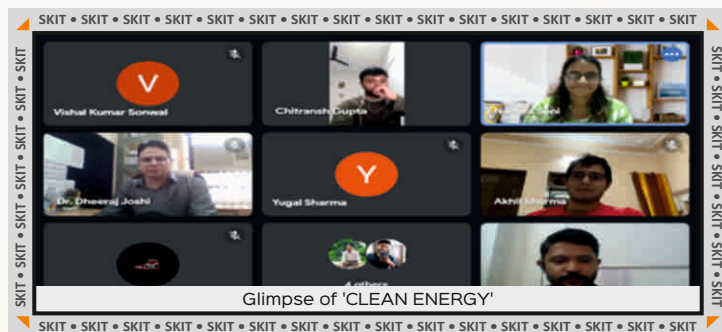
The club directed and produced two documentaries – Gandhi: The Manager and The Lost PM. The former is a short film that shows the struggles of Bharatvarsh and how Mahatma Gandhi emerged as a leader. It was released on the occasion of Gandhi Jayanti. The latter tells the life story of Shri Lal Bahadur Shastri and the myths surrounding his death. These were released on the official YouTube page of the club and other social handles.



## 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 & 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.

## EVENTS ORGANIZED BY SCIENCE & TECHNOLOGY CLUB

### EVENT 1: BOOTCAMP 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 with 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: 'MINDSWEEPER' : QUIZ-O-MANIA, BIND THE MIND, IDEA MINE EVENT ORGANIZED

On Engineer's Day, 1 September, 2021, S&T Club organized an event called 'MINDSWEEPER'. It was a 2-day event consisting of some fun

and interesting rounds like Quiz-O-Mania, Bind the Mind and Idea Mine. Participants were allowed to participate either individually or in a team of two. A total of 45 participants participated in the event.

'Quiz-O-Mania' was a general quiz focussing on science and technology. Participants who qualified the 1st round entered the 2nd round which was a brainstorming round called 'Bind the Mind'. In this round participants were provided with random and hypothetical situations related to science which they had to answer on the spot.

The judge for this round was Dr. Poonam Ojha from the Dept. of Chemistry, SKIT. Participants qualifying for the final round 'Idea Mine', were given two random words with which they were supposed to bring up their startup idea. This round was very interesting as it triggered the creative mindset and thought process of all the participants. This round was judged by Mr. Vinay Marwal from the Dept. of Mechanical Engineering, SKIT. The result was announced on S&T Club's official Instagram handle. E-Certificates were provided to all the winners and participants.

### EVENT 4: 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 5: 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 UNIVERSAL HUMAN VALUES & ETHICS COMMITTEE

### EVENT 1: WORKSHOP ON 'COVID-CARE'

UHV & EC conducted a 3-day workshop on 'Covid-Care' from 19 to 21 July, 2021. It began with the welcome address of Prof. R.K. Pachar, Principal, SKIT, in which he emphasized the importance and relevance of covid-care programmes. Prof. Archana Saxena, coordinator of the event, apprised the participants of the objectives and schedule of this workshop. Chief Guest, Prof. A.K. Dwivedi, Professor, RTU, Kota congratulated the organizers and the team for organizing this event on such a relevant subject. Mr. Paras Kohli and Mr. Abhay Sharma also threw light on the objectives of the workshop. On all the three days, lectures on the importance of Yoga and Covid-Care management were given by Mr. Paras Kohli and Mr.

Abhay Sharma. Students practiced different types of Pranayams also. The programme ended with vote of thanks by Dr. Swati Joshi.



## EVENT 2: CELEBRATION OF INDEPENDENCE DAY

UHV & EC organized celebration of Independence Day in online mode on 15 August, 2021. The session began on a very energetic and enthusiastic note when students raised slogans of 'Bahrat Mata Ki Jai'. The student anchors- Aryan Mishra and Tisha Gupta gave a wonderful introduction of the event. It was soon followed by National Anthem which completely changed the Environment. Umang Sharma and Disha Tyagi gave speeches, paying tribute to the freedom fighters. After that, there was a wonderful session on poetry by Swati Aggarwal. Posters depicting feelings of Nationalism were displayed. At the end, Coordinators Prof. Archana Saxena and Dr. Nidhi Sharma motivated and inspired the students by telling them the importance of National Culture.

## EVENT 3: QUIZ COMPETITION ON THE OCCASION OF 'HINDI DIWAS'

UHV & EC conducted an online quiz competition on the occasion of 'Hindi Diwas'. The quiz consisted of 50 questions related to Hindi language and Hindi Sahitya. The questions were designed to check the knowledge of the participants about Hindi from all perspectives. The quiz was divided into three segments based on the difficulty level of the questions. Quiz through google form was mailed to the participants. A time period of 1 hour was given to solve the quiz.

## EVENT 4: 'TEACHERS DAY' CELEBRATED

UHV & EC organised 'Teachers Day' celebration on virtual platform. The celebration began with extending the honour to all the beloved teachers by presenting a virtual bouquet. Kartik Chaudhary & Anchal Yadav were the anchors. Aryan Mishra & Vishal Bansiwala gave speeches in which they highlighted the true Importance of a teacher in a student's life. Prof. Archana Saxena & Dr Nidhi Sharma were the coordinators of the event. The whole celebration was a great success. The teachers enjoyed the performances of the students.

## EVENT 5: VIRTUAL SEMINAR ON 'THE LIFE OF SWAMI KESHVANANDA JI'

A one day virtual seminar was organised by UHV & EC on the life of Swami Keshvananda Ji. From his early life's struggles to the hurdles he faced for gaining education, from becoming a social reformer to a freedom fighter; everything was very well narrated in detail by the team members- Aanchal Sharma, Aryan Mishra and Tisha Gupta. The anchors of the event were Umang Sharma & Lavanya Bhardwaj.

## EVENT 6: 'KRISHNA JANMASHTAMI' CELEBRATED

UHV & EC organized an online event on the occasion of Krishna Janmashtami. All the organizing members and participants were in traditional outfits. The pleasant introduction by the event hosts -Tisha Gupta & Priya Gupta grabbed the attention of all the attendees. The event began with 'vandana' of Lord Krishna, and with that a short and interesting overview of Shri Krishna's life & leelas was given by Aryan Mishra. At the end, coordinators- Prof. Archana Saxena and Dr. Nidhi Sharma inspired and motivated all the participants.



## EVENT 7: QUIZ ON THE OCCASION OF 'GANDHI JAYANTI' & 'LAL BAHADUR SHASTRI JAYANTI'

UHV & EC organized a quiz on the occasion of 'Gandhi Jayanti' & 'Lal Bahadur Shastri Jayanti'. The quiz consisted of 40 questions on their lives, achievements and contributions towards the nation and the society. Quiz through google form was mailed to the participants and a time period of 1 hour was given to solve the quiz.





## EVENT 8: FDP ON 'CODE OF CONDUCT AND PROFESSIONAL ETHICS'

A one-week FDP on 'Code of Conduct and Professional Ethics' was organized from 16 to 21 August, 2021. Prof. R.K. Pachar, Principal, SKIT, welcomed all the dignitaries and participants. He emphasized on the importance and relevance of the faculty development programmes and wished for the positive and fruitful outcome of the event. Prof. Archana Saxena apprised the audience of the schedule of the workshop and talked on the importance of the code of conduct. The Chief Guest, Prof. B. P. Suneja, former Professor, Dept. of Civil Engg. & former Dean, Faculty of Engg. & Architecture expressed his fear that due to the advancement in Science and Technology, upcoming generation is moving away from acquiring Human Values and Ethics. He emphasized that students should learn to develop simplicity, integrity, punctuality, ethics, emotions and honesty. The FDP ended with vote of thanks proposed by the event coordinator, Dr. Nidhi Sharma.



## ANUBHAV-3 WORKSHOP ON HINDUSTANI CLASSICAL MUSIC ORGANIZED BY SPIC MACAY CLUB

The SPIC MACAY club of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur hosted an online 5-day workshop on Hindustani Classical Music organized by Spicmacay society from 10 to 14 October, 2021. The college also provided the online platform to the students of four participatory institutes- St. Anthony's Sr. Sec. School-2, Udaipur; St. Anthony's School-2, Udaipur; DBN Sr. Sec. School, Ajmer; Birla Shishu Vihar, Pilani, Jhunjhunu. Approximately, 100 students participated in this workshop to learn the intricacies of vocal music from Omkar Dadarkar Ji.

## DEPARTMENTS OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

### 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 Department 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.





## MS. PALIKA JAJOO RECOGNIZED AS 'NPTEL DISCIPLINE STAR'

Ms. Palika Jajoo received Certificate of Appreciation for being recognized as 'NPTEL Discipline Star' January-April 2021. This certificate is conferred on a person who has completed courses, the duration of which totals to 50 week or more subject to the condition that all courses should be in a particular discipline.

## BOOK CHAPTER PUBLISHED

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

## PAPERS PRESENTED IN CONFERENCES

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	ATTENDED BY	: Anjana Sangwan, Dr. Nilam Choudhary, Naveen Jain, Dr. Sunita Gupta
AUTHOR/S	: Mudeet Jain, Pankaj Dadheech	ORGANIZED BY	: SKIT, Jaipur
CONFERENCE	: International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASET-2021), SKIT, Jaipur, 1 to 2 September, 2021	TITLE	: Data Science with Statistical Methods using R Programming- Basic Course
TITLE	: Sentiment Analysis using various Machine Learning Algorithms: A Comparative Review	DATE	: 21 to 25 June, 2021
AUTHOR/S	: Dolly Mittal, Palika Jajoo	ATTENDED BY	: Anjana Sangwan, Rashmi Dadhich
CONFERENCE	: International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASET-2021), SKIT, Jaipur, 1 to 2 September, 2021	ORGANIZED BY	: Amity University, Lucknow
TITLE	: Block Chain Technology	DATE	: 23 to 27 August, 2021
AUTHOR/S	: Dolly Mittal, Palika Jajoo	ATTENDED BY	: Priyanka
CONFERENCE	: International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASET-2021), SKIT, Jaipur, 1 to 2 September, 2021	ORGANIZED BY	: Government College of Engineering, Dharmapuri
TITLE	: Cryptocurrency and Blockchain Technology	DATE	: 30 August to 3 September, 2021
AUTHOR/S	: Dolly Mittal, Palika Jajoo	ATTENDED BY	: Priyanka, Nikhar Bhatnagar
CONFERENCE	: International Conference on Recent Advancements in Science, Engineering & Technology, and Management (ICRASET-2021), SKIT, Jaipur, 1 to 2 September, 2021	ORGANIZED BY	: Punjab Engineering College

## FDPs ATTENDED

TITLE	: The Joy of Computing using Python	TITLE	: Advance Research Methodology and Writing of High-Quality Research Paper
DATE	: Jan to April, 2021	DATE	: 24 to 28 August, 2021
ATTENDED BY	: Priyanka Sharma	ATTENDED BY	: Nidhi Srivastav, Priyanka, Palika Jajoo
ORGANIZED BY	: NPTEL	ORGANIZED BY	: SKIT, Jaipur
TITLE	: Artificial Intelligence	TITLE	: Foundation of Data Science & its Applications,
DATE	: 23 to 28 August, 2021	DATE	: 26 to 30 July, 2021
ATTENDED BY	: Priyanka Sharma, Harpreet Singh Gill, Rubal Deep Gill	ATTENDED BY	: Nidhi Srivastav, Sunita Gupta
ORGANIZED BY	: MSME Technology Development Centre, Meerut (ATAL Academy)	ORGANIZED BY	: Indira Gandhi Delhi Technical University for Women.
TITLE	: IOT, Artificial Intelligence and Data Science	TITLE	: AI & Machine Learning
DATE	: 18 to 28 August, 2021	DATE	: 19 to 23 April, 2021
ATTENDED BY	: Priyanka Sharma, Priyanka, Pankaj Dadheech, Nikhar Bhatnagar	ATTENDED BY	: Deepa Modi, Shanu Tripathi, Sunita Gupta, Dr. Sunita Gupta
ORGANIZED BY	: Easwari Engineering College, Ramapuram, Chennai	ORGANIZED BY	: SKIT, Jaipur
TITLE	: Artificial Intelligence Integrated Web Services	TITLE	: Multi-Technologies
DATE	: 25 to 29 May, 2021	DATE	: 28 June to 3 July, 2021
ATTENDED BY	: Priyanka Sharma	ATTENDED BY	: Harpreet Singh Gill, Rubal Deep Gill
ORGANIZED BY	: Easwari Engineering College, Ramapuram, Chennai	ORGANIZED BY	: Aarupadai Veedu Institute of Technology, Chennai in collaboration with BRAIN O VISION
TITLE	: Cyber Security Vulnerabilities & Safeguards	TITLE	: Advanced Excel with Data Visualization
DATE	: 17 to 21 May, 2021	DATE	: 5 to 10 July, 2021
ATTENDED BY	: Priyanka Sharma, Nidhi Srivastava	ATTENDED BY	: Deepa Modi, Shanu Tripathi, Palika Jajoo
ORGANIZED BY	: NITTTR, Chandigarh (ATAL Academy)	ORGANIZED BY	: E & ICT Academy, IIT Kanpur (A Joint Initiative of MeitY & IIT Kanpur)
TITLE	: Machine Learning & Deep Learning	TITLE	: Research Trends in Computer Vision and Natural Language Processing
DATE	: 10 to 21 May, 2021	DATE	: 19 to 23 July, 2021
ATTENDED BY	: Priyanka Sharma	ATTENDED BY	: Deepa Modi
ORGANIZED BY	: Easwari Engineering College, Ramapuram, Chennai	ORGANIZED BY	: The NorthCap University, Haryana
TITLE	: Outcome-Based Education: A Paradigm for Assessment & Accreditation	TITLE	: Code of Conduct & Professional Ethics
DATE	: 24 to 28 August, 2021	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 : NITTTTR, Kolkatta

TITLE : Artificial Intelligence and Machine Learning using Python  
DATE : 21 June to 25 June, 2021  
ATTENDED BY : Sushila Vishnoi  
ORGANIZED 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 : NITTTTR, 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

## WORKSHOPS ATTENDED

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 : 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

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

## STTPs ATTENDED

TITLE : Design of Soft Computing based Machine  
 Learning Models

DATE : 7 to 12 June, 2021

ATTENDED BY : Priyanka Sharma  
 ORGANISED BY : Panipat institute of Engineering &  
 Technology, Panipat

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

TITLE : Mathematics Software

DATE : 13 to 17 September, 2021

ATTENDED BY : Nidhi Srivastav, Dr. Sunita Gupta  
 ORGANISED BY : SKIT, Jaipur

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

TITLE : Recent Advances in Nano-Photonics  
 Technology

DATE : 15 to 20 February, 2021

ATTENDED BY : Shanu Tripathi  
 ORGANIZED BY : SKIT, Jaipur

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

TITLE : Sensor Networks, Internet of Things and  
 Internet of Everything

DATE : 31 May to 5 June, 2021

ATTENDED BY : Ms. Rashmi Dadhich  
 ORGANISED BY : SKIT, Jaipur (AICTE – AQIS Sponsored)

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)

## NPTEL/SWAYAM/COURSERA COURSES COMPLETED

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

## COURSES MENTORED

Mentor/s	Course
Priyanka Sharma, Nidhi Srivastava, Ashish Pant	: Python Basics
Priyanka Bhardwaj, Harpreet Singh Gill	: Software Security
Deepa Modi	: Programming in Java
Shanu Tripathi	: Emotional Intelligence
Rashmi Dadheech	: AI for Everyone: Master the Basics
Rashmi Dadheech	: Computer Graphics

## 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

## SESSION CHAIRED

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

SESSION ON : Recent Advancements in Science, Engineering & Technology, and Management (ICRASET-2021)

CHAIR BY : Pankaj Dadheech  
DATE : 1 to 2 September, 2021 at SKIT, Jaipur

## 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

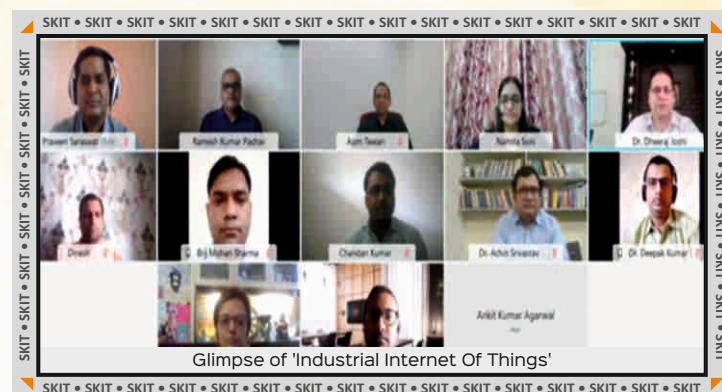
## COPYRIGHT REGISTERED

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

## DEPARTMENT OF MECHANICAL ENGINEERING

## 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.

## 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. Shahbaz 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.



## HANDS-ON ONLINE WORKSHOP ON 'VIRTUAL LABS'

A one-day college-level hands-on online workshop on "Virtual Labs" was organized for the students of B.Tech. 1st year II semester (session 2020-21) by Virtual Labs team, IIT, Delhi on 29 July, 2021 at SKIT. It was supported by the Ministry of Education, Govt. of India.

Virtual Lab experts for this workshop were Mr. Prateek Sharma (Sr. Field Engineer, WRL-IIT Delhi) and Mr. Shivam Sundaram (Field Engineer, WRL-IIT Delhi). Total of 223 participants attended this



workshop. The workshop began with the welcome speech by Dr. Dheeraj Joshi, Head of ME Deptt., SKIT, Jaipur. He highlighted the importance and utility of Virtual Labs in current pandemic situations. The first session started with the presentation followed by demonstration of stream wise laboratory experiments. Hands-on session was held post lunch. Mr. Ajay Kumar Dhanopia, Nodal Coordinator, Virtual Labs, SKIT, Jaipur delivered vote of thanks.

## 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 CI Engine, pp-229-246, 2021  
 PUBLISHER : 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-TiB<sub>2</sub> Cast Composites Fabricated by a Flux-Assisted Synthesis Technique  
 PUBLISHER : CRC Press and Taylor and Francis Group

## PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

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 : 3D Printing Technology  
 DATE : 12 to 16 July, 2021  
 ATTENDED BY : Achin Srivastav, Prem Singh

ORGANIZED BY	: Govt. Engineering College, Jhalawar	DATE	: 5 to 9 July, 2021
TITLE	: Recent Trends in Mechanical Engineering	ATTENDED BY	: Chandan Kumar
DATE	: 20 to 24 July, 2021	ORGANIZED BY	: AICTE Training and Learning (ATAL) Academy
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	TITLE	: Inculcating Universal Human Values in Technical Education
ORGANIZED BY	: RTU (ATU) TEQIP III & SKIT, Jaipur	DATE	: 19 to 23 July, 2021
TITLE	: Introduction to Discrete-Event Modelling and Simulation	ATTENDED BY	: Chandan Kumar, Monu Gupta, Namita Soni, Nikhil Sharma, Vikash Gautam
DATE	: 26 to 30 July, 2021	ORGANIZED BY	: AICTE Training and Learning (ATAL) Academy
ATTENDED BY	: Achin Srivastav	TITLE	: Green Technology & Sustainability Engineering
ORGANIZED BY	: Visvesvaraya National Institute of Technology, Nagpur	DATE	: 23 to 27 August, 2021
TITLE	: Code of Conduct & Professional Ethics	ATTENDED BY	: Chandra Mohan Kumar
DATE	: 16 to 21 August, 2021	ORGANIZED BY	: Bharati Vidyapeeth College of Engineering, Navi Mumbai & ATAL
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	TITLE	: Manufacturing: Hindsight to Foresight
ORGANIZED BY	: UHV & EC, SKIT, Jaipur	DATE	: 16 to 20 July, 2021
TITLE	: Outcome-Based Education: A Paradigm for Assessment & Accreditation	ATTENDED BY	: Dheeraj Joshi
DATE	: 24 to 28 August, 2021	ORGANIZED BY	: BITS, Pilani
ATTENDED BY	: Amit Kumar Bansal, Dheeraj Joshi, Sudesh Garg, Madhukar Kumar, Chandra Mohan Kumar	TITLE	: Artificial Intelligence in Design and Manufacturing
ORGANIZED BY	: SKIT, Jaipur	DATE	: 26 to 30 July, 2021
TITLE	: Outcome-Based Education	ATTENDED BY	: Dheeraj Joshi
DATE	: 26 to 30 July, 2021	ORGANIZED BY	: Shri G.S. Institute of Technology & Science, Indore
ATTENDED BY	: Vishnu Jangid	TITLE	: a2z of NBA Accreditation Process
ORGANIZED BY	: Engineering College, Bikaner	DATE	: 24 August to 9 September, 2021
TITLE	: Thermodynamic Analyses of Energy Systems	ATTENDED BY	: Madhukar Kumar
DATE	: 12 to 16 July, 2021	ORGANIZED BY	: Inderprastha Engineering College, Ghaziabad
ATTENDED BY	: Arun Beniwal	TITLE	: Industrial Automation using CNC and Intelligent Systems
ORGANIZED BY	: AICTE Training and Learning (ATAL) Academy	DATE	: 16 to 20 August, 2021
TITLE	: Simulation of Welds and Optimization	ATTENDED BY	: Manoj Kumar Sain, Praveen Saraswat
DATE	: 12 to 16 July, 2021	ORGANIZED BY	: AICTE Training and Learning (ATAL) Academy
ATTENDED BY	: Brij Mohan Sharma	TITLE	: Green Technology: Applications in Manufacturing
ORGANIZED BY	: AICTE Training & Learning (ATAL) Academy	DATE	: 20 to 24 September, 2021
TITLE	: Finite Element Method with Applications	ATTENDED BY	: Manoj Kumar Sain
DATE	: 17 to 21 August, 2021	ORGANIZED BY	: AICTE Training and Learning (ATAL) Academy & NIT Patna
ATTENDED BY	: Brij Mohan Sharma	TITLE	: Smart Materials for Energy and Environment An Experimental and Theoretical Perspectives
ORGANIZED BY	: AICTE Training and Learning (ATAL) Academy	DATE	: 26 to 30 July, 2021
TITLE	: Recent Trends in Electric Vehicles	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



Ayushi Agarwal, iii Sem, IT

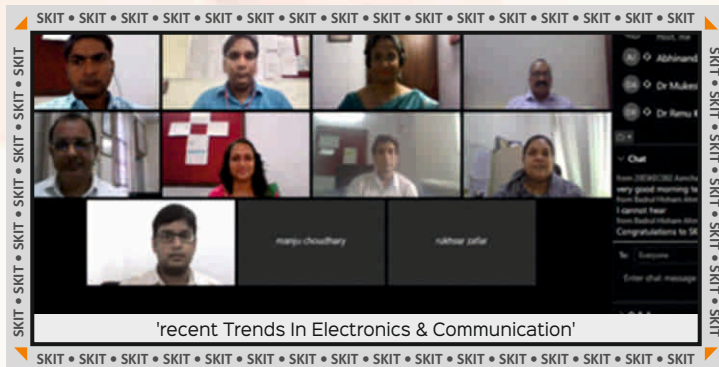


## LECTURE SERIES ON 'RECENT TRENDS IN ELECTRONICS & COMMUNICATION' (RTEC-21)

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.

## EXPERT LECTURE ON 'GANDHI JI & SUSTAINABLE DEVELOPMENT'

An expert lecture on 'Gandhi Ji & Sustainable Development' was organized on 2 October, 2021. Er. Daria Singh, Former Director, Tech. Education, Rajasthan and Founder Chairman, ISTE Rajasthan Section as well as Former Chairman, Board of Technical Education, Rajasthan was the resource person. Mr. Pallav Rawal (Coordinator, SKIT- ISTE Chapter) and Mr. Ankit Agarwal (Coordinator, SKIT-IETE Chapter) in association with IEI, OSA, IGBC & ICI SKIT-Student Chapters coordinated the event.

## 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
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 (ICRASET M - 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 (ICRASET&M 2021), SKIT, Jaipur, 1 to 2 September, 2021

Agarwal, Abhinandan Jain, Sunil Lakhawat, Vikas Pathak

ORGANIZED BY : SKIT, 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 : IoT

DATE : 9 to 13 August, 2021

ATTENDED BY : Rukhsar Zafar

ORGANIZED BY : AICTE ATAL Academy

TITLE : Photonics

DATE : 28 June to 2 July, 2021

ATTENDED BY : Rukhsar Zafar, Ankit Agarwal

ORGANIZED BY : AICTE ATAL Academy

TITLE : Photonics

DATE : 19 June to 23 July, 2021

ATTENDED BY : Ankit Agarwal

ORGANIZED BY : AICTE ATAL Academy

TITLE : OBE

DATE : 24 to 28 August, 2021

ATTENDED BY : Swati Arora, Manju Choudhary, Rajni Idiwai, Pooja Choudhary, Suman Sharma, Namrata Saxena

ORGANIZED BY : SKIT, Jaipur

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 : 3D Printing

DATE : 19 to 23 July, 2021

ATTENDED BY : Kiran Rathi

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 : AI and Machine Learning

DATE : 28 June to 2 July, 2021

ATTENDED BY : Ankit Agrawal

ORGANIZED BY : ICFAI University, Jaipur

TITLE : Digital Tools for Writing Manuscripts for Writing, Authoring and Reviewing Manuscripts

DATE : 12 to 23 July, 2021

ATTENDED BY : Pooja Choudhary

ORGANIZED BY : MNIT, Jaipur

## FDPs ATTENDED

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

TITLE : Antennas: Design, Fabrication and Measurement

DATE : 2 to 6 August, 2021

ATTENDED BY : Harshal Nigam

ORGANIZED BY : AICTE ATAL Academy

TITLE : Machine Learning and Computer Vision

DATE : 5 to 9 July, 2021

ATTENDED BY : Harshal Nigam, Neeraj Jain,

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 : 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

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

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

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

## SEMINARS / WEBINARS ATTENDED

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

## 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 : Optical Fiber Communication  
DATE : 26 to 30 July, 2021  
ATTENDED BY : Gloria Joseph  
ORGANIZED BY : NITTTR, 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

## 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

## NPTTEL / SWAYAM/ COURSERA COURSES COMPLETED

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 Rathie  
DURATION & CATEGORY : January to April, 2021 (12-week).  
Awarded Elite Certificate

## SESSION CHAIRED

SESSION ON : International Conference on  
Multidisciplinary and Current  
Educational Research  
CHAIRIED BY : Harshal Nigam  
DATE & VENUE : 1 July, 2021 at MCU University, Thailand



## 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

## EXPERT TALK DELIVERED

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

## COURSES MENTORED

Mentor/s	Course
Neeraj Jain, Vikas Pathak	: Digital Circuits
Kiran Rathi, Sunil Lakhawat	: Introduction to Semiconductor Devices
Rahul Pandey, Pallav Rawal	: Control Engineering
Harshal Nigam	: Microwave Theory and Techniques
Praveen Kumar Jain	: Electromagnetic Theory
Shubhi Jain	: Microwave Engineering
Manju Choudhary	: Computer Architecture and Organization

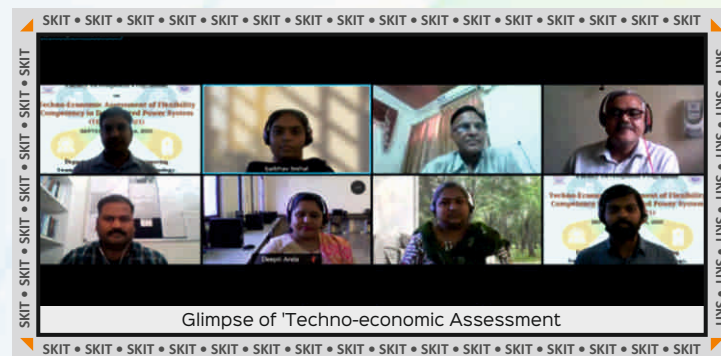


Komal Kanwar, III Sem, CE

## DEPARTMENT OF ELECTRICAL ENGINEERING

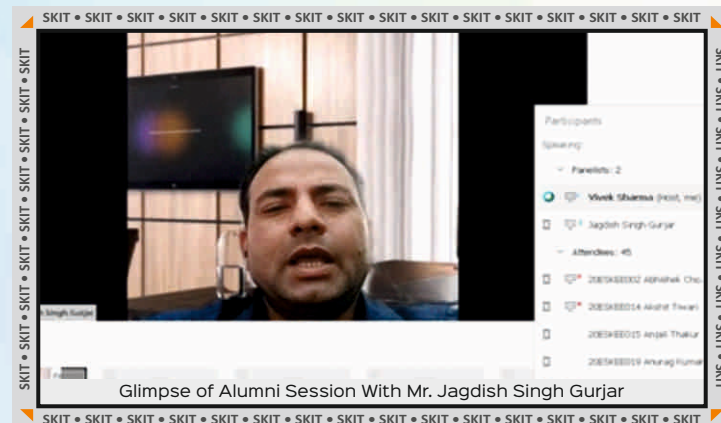
### FDP ON 'TECHNO-ECONOMIC ASSESSMENT OF FLEXIBILITY COMPETENCY IN DEREGULATED POWER SYSTEM' ORGANIZED

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.



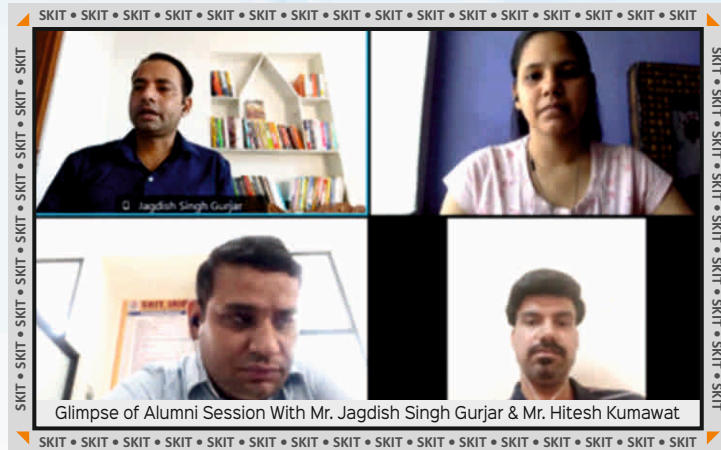
### INTERACTIVE ALUMNI SESSION WITH MR. JAGDISH SINGH GURJAR

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.

## 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 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.

## PAPERS PRESENTED IN CONFERENCES

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 September, 2021

## FDPs ATTENDED

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 : 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 : 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 : 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

## M.TECH SUPERVISED

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

## WORKSHOPS ATTENDED

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



## PATENT FILED

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

**NAME** : Pooja Jain, Akash Saxena, Shalini Shekhawat, Bhanu Pratap Soni and Ankit Kumar Sharma

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

## SESSION CHAIRED

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

**CHAIRD BY** : Akash Saxena

**DATE & VENUE** : SIT College of Engineering, Kanpur on 25 September, 2021.

## EXPERT TALK DELIVERED

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

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

**DELIVERED BY** : Akash Saxena

**TITLE** : A Comprehensive Analysis of MCP Prediction Model

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

**DELIVERED BY** : Akash Saxena



ATISHAYEE SINGH, III SEM, IT

## DEPARTMENT OF CIVIL ENGINEERING

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

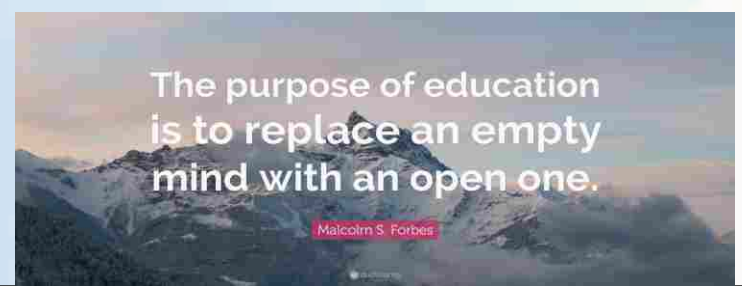
The Department of Civil Engineering, SKIT, Jaipur organized one-week RTU (ATU) TEQIP-III sponsored Faculty Development Program on 'Emerging Trends in Infrastructure Development' (ETID-2021) on 25 February, 2021. More than hundred participants from across the globe participated in the event.



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, 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 Shirmali (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.



## PAPER PRESENTED IN CONFERENCE

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

## FDPs ATTENDED

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

TITLE : Behaviour of Structures subjected to Extreme Events (Fire/Blast/Earthquake/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

## WORKSHOPS ATTENDED

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 : Sunita Tolani, Ms. Pooja Jain, Akash Johari  
ORGANIZED BY : AICTE, New Delhi

## 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.

## NPTEL/ SWAYAM/ COURSERA COURSES COMPLETED

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

## Ph.D. AWARDED

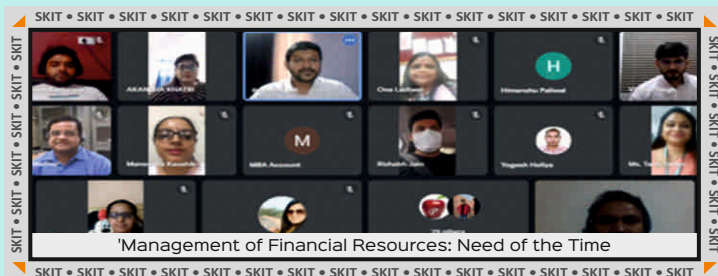
THESIS TITLE : Potential Use of Waste Granite and Glass Powder in Concrete  
Ph.D. AWARDED TO : Kishan Lal Jain  
SUPERVISED BY : Dr. Gaurav Sancheti  
INSTITUTE : Manipal University, Jaipur.  
YEAR : 2021

## 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



## 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 & 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. Shamsher 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 convenor of the event proposed the vote of thanks.

## 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)

## 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. Chandra sekharan 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. Alpana, Christ University, Lavasa; Dr. Aditi Dev, Assistant Professor, Amity University, Jaipur.

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





## BOOK CHAPTERS PUBLISHED

BOOK : Exploring English language in India:  
Theory & Practice  
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

## 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

## 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

## BOOKS EDITED

TITLE : New Directions in English language Teaching  
EDITOR : Nidhi Sharma  
PUBLISHER : Shanlax Publication, May 2021,  
ISSN: 978-93-91373-97-9

TITLE : Exploring English language in India:  
Theory & Practice  
EDITOR : Nidhi Sharma, Shikha Agarwal, Irum Alvi  
PUBLISHER : Shanlax Publication, September  
2021, ISSN: 978-93-91373-97-9

## 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

## COURSES MENTORED

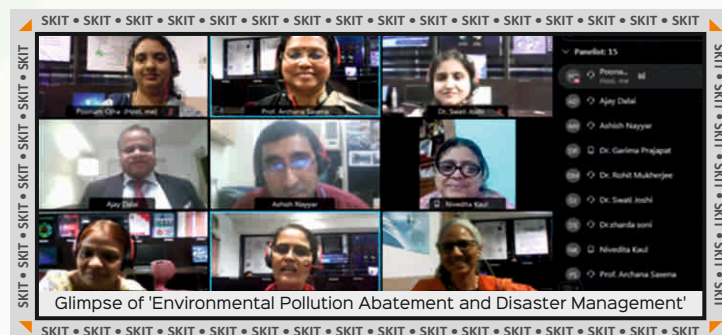
Mentor/s	Course
Neha Purohit, Sheeba Anjum	Soft Skills
Nidhi Sharma	Enhancing Soft Skills and Personality Development

## 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.

## PAPERS PRESENTED IN CONFERENCES

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 Leuvlinate  
 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 : 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

## WORKSHOPS ATTENDED

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

## 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 : NITTR, Kolkata

## WEBINARS ATTENDED

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

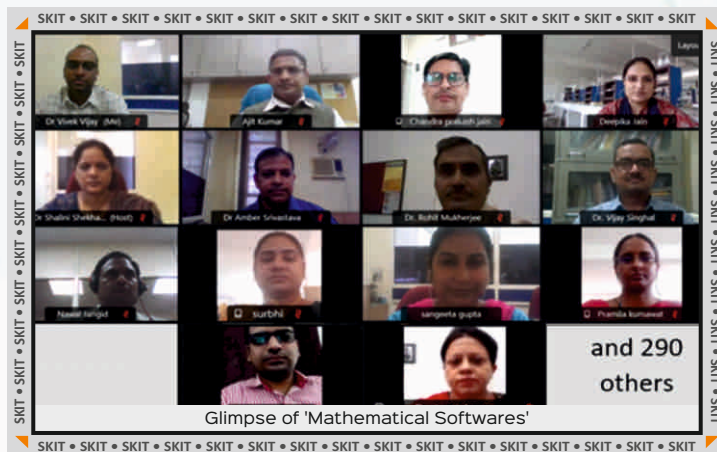
TITLE : Science, Technology and Innovation Policy 2020: A Transformative S&T Agenda  
DATE : 30 October, 2021  
ATTENDED BY : Archana Saxena  
ORGANISED BY : SRM University, AP

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

## DEPARTMENT OF MATHEMATICS

### SHORT TERM TRAINING PROGRAMME ON 'MATHEMATICAL SOFTWARES'

A five-day Short Term Training Programme (STTP) on 'Mathematical Software' 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.

## PAPERS PRESENTED IN CONFERENCES

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 usin Laplace Decomposition Method  
AUTHOR/S : Deepika Jain  
CONFERENCE : International Conference on Recent Advancements in Science, Engineering & Technology, and Management, SKIT, Jaipur, 1to 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.



## WORKSHOPS ATTENDED

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

ORGANIZED BY : Jyoti Arora, Nawal Kishore Jangid, Sumit Gupta  
: 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

## 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

## 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

## FDPs ATTENDED

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 Theo  
DATE : 29 June to 3 July, 2021.  
ATTENDED BY : Pramila Kumawat  
ORGANIZED BY : Department of Sciences of Christ College, Karnataka in Collaboration with IQAC

## STTPs/ SUMMER SCHOOLS/ REFRESHER COURSES ATTENDED

TITLE : NASI-TMC Summer School on Differential Geometry  
DATE : 5 to 24 July, 2021  
ATTENDED BY : Surbhi Sharma, Vijay Kumar Singhal,

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	ORGANIZED BY	: AICTE Training and Learning Academy, Madan Mohan Malaviya University of Technology, Gorakhpur
ATTENDED BY	: Pramila Kumawat		
ORGANIZED BY	: AICTE		
TITLE	: Recent Trends in Applications of Mathematics	TITLE	: Code of Conduct & Professional Ethics
DATE	: 12 to 17 July, 2021	DATE	: 16 to 21 August, 2021
ATTENDED BY	: Jyoti Arora, Pramila Kumawat, Shalini Shekhawat	ATTENDED BY	: Chandra Prakash Jain, Deepika Jain, Nawal Kishor Jangid, Pramila Kumawat, Sangeeta Gupta, Shalini Shekhawat
ORGANIZED BY	: Chadalawada Ramanamma Engineering College, Tirupati	ORGANIZED BY	: Universal Human Values and Ethics Committee, SKIT, M&G; Jaipur
TITLE	: Inculcating Universal Human Values in Technical Education	TITLE	: Modern Methods for Effective Teaching and Learning
DATE	: 26 to 30 July, 2021	DATE	: 17 to 21 August, 2021
ATTENDED BY	: Jyoti Arora, Pramila Kumawat, Shalini Shekhawat, Surbhi Sharma, Vijay Kumar Singhal, Vivek Vijay	ATTENDED BY	: Shalini Shekhawat
ORGANIZED BY	: AICTE	ORGANIZED BY	: Department of Mathematics, Rathinam College of Arts and Science, Coimbatore
TITLE	: Advanced Structural Analysis and Modern Construction of Civil Engineering Structures Techniques	TITLE	: Outcome based Education: A Paradigm for Assessment and Accreditation
DATE	: 26 to 30 July, 2021	DATE	: 24 to 28 August, 2021
ATTENDED BY	: Surbhi Sharma	ATTENDED BY	: Chandra Prakash Jain, Jyoti Arora, Sangeeta Gupta, Shalini Shekhawat, Sumit Gupta, Surbhi Sharma, Vijay Kumar Singhal
ORGANIZED BY	: Oriental Institute of Sciences and Technology, Bhopal and Shri GS Institute of Technology and Sciences	ORGANIZED BY	: Department of Computer Science and Engineering & Department of Information Technology under the aegis of IQAC & PAQIC, SKIT, Jaipur
TITLE	: Curriculum Development, Research and Publication Ethics	TITLE	: Advance Research Methodology and Writing High Quality Research Paper
DATE	: 2 to 9 August, 2021	DATE	: 24 to 28 August, 2021
ATTENDED BY	: Jyoti Arora, Surbhi Sharma	ATTENDED BY	: Nawal Kishor Jangid, Pramila Kumawat, Vivek Vijay
ORGANIZED BY	: SRM Institute of Science and Technology, Ramapuram Campus, Chennai	ORGANIZED BY	: Department of Management studies and Department of Mechanical Engineering, SKIT, Jaipur
TITLE	: Internet of Things (Applications in Medical Science)	TITLE	: International Conference on Recent Advancements in Science, Engineering & Technology and Management
DATE	: 9 to 13 August, 2021	DATE	: 1 to 2 September, 2021
ATTENDED BY	: Amber Srivastava, Rohit Mukherjee	ATTENDED BY	: Sumit Gupta, Pramila Kumawat, Sangeeta Gupta
ORGANIZED BY	: AICTE Training and Learning (ATAL) Academy, Women Engineering College, Ajmer	ORGANIZED BY	: Department of Electrical Engineering, SKIT, Jaipur
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		

## 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

### 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

### 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

### WORKSHOPS ATTENDED

- 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

### NPTEL/ SWAYAM/ COURSERA COURSES COMPLETED

- 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

- 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

### FDPs ATTENDED

- 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



Dileep Menaria, VII Sem, ME



Atishayee Singh, III SEM, IT

## PAPERS PUBLISHED

### DEPARTMENTS OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

- 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 Ponnampalani, 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

**AUTHOR/S** : Electronic Products Using Game Theory  
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** : 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 Sustainable Development (Inderscience), vol. 20, Nos. 3/4, pp. 279-300, 2021

**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

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

- 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 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/JSKIT.11.3.2021.1116
- 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/JSKIT.11.3.2021.1719
- TITLE : Effect of Buffer Layer on Cu (In, Ga) Se<sub>2</sub> Solar Cell Performance  
AUTHOR/S : Satyendra Kumar, Swati Arora  
JOURNAL : SKIT Research Journal, Vol.11 ICANCT Proceedings 2021, Pages: 20-24 DOI:10.47904/JSKIT.11.3.2021.2024
- 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/JSKIT.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/JSKIT.11.3.2021.2931
- 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/JSKIT.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/JSKIT.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/JSKIT.11.3.2021.51-54

## DEPARTMENT OF ELECTRICAL ENGINEERING

- 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: 1-23.
- 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

JOURNAL : Turkish Online Journal of Qualitative Inquiry  
(TOJQI) Volume 12, Issue 5, July, 2021: 4165-4170

TITLE : Challenges In the Implementation of Life Skills  
Education

AUTHOR/S : Ona Ladiwal  
JOURNAL : ANVESAK, Vol 51 No.1(VIII) UGC CARE, ISSN :  
0378 - 4568

## DEPARTMENT OF CIVIL ENGINEERING

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  
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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 MANAGEMENT STUDIES

TITLE : Status of Life Skill Education in Teacher  
Education Curriculum of SAARCCountries: A  
Comparative Evaluation

AUTHOR/S : Ona Ladiwal

## DEPARTMENT OF MATHEMATICS

TITLE : On Convolution Theorem for some Fractional  
Order Integral

AUTHOR/S : Deepika Jain, Alok Bhargava  
JOURNAL : Mathematics in Engineering, Science and  
Aerospace (MESA), Vol. 12; No 3 (2021) pp. 771-77

## DEPARTMENT OF PHYSICS

TITLE : Effect of 532 nm Nd: YAG laser Irradiation on  
the Optical Properties of Ge<sub>1</sub>Se<sub>2.5</sub> Glass Film

AUTHOR/S : Manasvi Dixit  
JOURNAL : Journal of Modern Optics, ISSN: 0950-0340 (2021)

TITLE : Recent Innovations in Properties of Nanostructured  
Glasses and Composites

AUTHOR/S : Manasvi Dixit  
JOURNAL : Journal of Experimental Nanoscience,  
ISSN:1745-8080, (2021)

## DEPARTMENT OF ENGLISH

TITLE : Gender Confrontation in J.M. Coetzee's  
Disgrace

AUTHOR : Sheeba Anjum  
JOURNAL : Academia Letters, July Issue, 2021

TITLE : Who's keeping the score? Social Impact and  
Pedagogical Implications of Sports unraveled  
through a Case Study

AUTHOR : Nidhi Sharma  
JOURNAL : International Journal of English Studies, Vol 3,  
Issue 10, ISSN 2581-8333



AYUSHI AGARWAL  
III SEM, IT

## - असफलता की सीढ़ियां -

असफलता की सीढ़ियां ही सफलता तक जाती हैं।  
राहों की घुमावदार गलियां ही मंजिल तक पहुँचाती हैं।

हो न निराश तू एक हार से रुककर, चल न तू यूँ डरकर झुककर,  
ये ठोकरें ही तो तुझे चलने के काबिल बनाती हैं,  
असफलता की सीढ़ियां ही सफलता तक जाती हैं।

मिले हैं राहों में काँटे, तो मिलेंगे फूल भी,  
आई हैं मंजिल नजर, तो उड़ जायेगी धूल भी,  
चाहत अगर हो सच्ची तो चीज हर मिल जाती हैं,  
असफलता की सीढ़ियां ही सफलता तक जाती हैं।

## (सृजन)

### - बस यूँ ही -

रुकता नहीं यह समां, हर घड़ी बीती जा रही है,  
सच्चाई की तलाश में ना जाने कितने पड़ाव अभी आएँगे  
तिमिर का नाश करने।

उस प्रकाश की चका-चौंध मे उम्मीद लिए जा रही है,  
बदलेगा यह संसार नहीं बदल देगा यह हुलिया तुम्हारा।

थोड़ा उठकर, उल्टे वेग में चलना यह सांसे बस यूँ ही चले जा रही है,  
चुनाव तुम्हारा किया, इस प्रकृति ने  
जरा इस बात को गौर से समझना।

नहीं करना तुमको वो जो दुनिया इस उधेड़-बुन मे किये जा रही है,  
जानोगे जब तुम गहनता से इस नदी की गहराई को  
पाओगे एक अथाह समुद्र ज्ञान का।

जिसके तल से मीलों दूर एक नाव बस बहे जा रही है।

अक्षिता शर्मा  
विद्युतीय अभियांत्रिकी  
तृतीय वर्ष

### - ओस की बूंदें -

कुछ ओस की बूंदों सा इन दिनों ये जहाँ ठहरा है,  
दिन छिछलता रोज है जरूर  
मगर आंखों पर जैसे अंधीरे का पहरा है।

कलरव भी कानों में पंछियों का रोज गूँजा करता है,  
पर मन की अशांति दूर करे कोई स्वर कहाँ इतना गहरा है।

कुछ बिखरा है कुछ निखरा है,  
कुछ तो है जो पूरा होकर भी अधूरा है।

अनिश्चित परंतु सुंदर कुछ ओस की बूंदों सा...

छावि शर्मा  
कम्प्यूटर साइंस विभाग  
तृतीय वर्ष

कोमल कंवर कोरावत  
सिविल अभियांत्रिकी  
तृतीय वर्ष

### - कविता -

एक दिन हम घूमने निकले, दिल में कुछ सवाल थे  
टूटी सड़क उफनते नाले, हर जगह हाल बेहाल थे  
शिकायत के लिए जो मचला मन, तो उसके यूँ फरमान थे  
सँभल कर करना ऐ बन्दे, तुम भी कभी सरकार थे।

पालिका जाजू  
सहायक प्रो.  
कम्प्यूटर साइंस विभाग

### - एक बेटी की आत्मकथा -

एक बेटी जब जन्म लेती है, तब ही से सपना वो बुन लेती है  
एक बेटी जब बड़ी होती है, माँ का ही नहीं बाप का भी वो काम बाँट लेती है,

एक बेटी जब युवा होती है, भारत की संस्कृति को सीखा ही लेती है,  
एक बेटी जब बहू बनती है, एक नहीं दो - दो माँ-बाप बना ही लेती है,

एक बेटी जब माँ बनती है, बच्चे की खुशी मे अपनी खुशी वो ढूँढ ही लेती है,  
एक बेटी अगर माँ नहीं बन पाती है, समाज की जिल्लत झेल ही लेती है,

एक बेटी जब सास बनती है, पोते-पोती मे खुशी ढूँढ ही लेती है।

नव्या शर्मा  
विद्युतीय अभियांत्रिकी  
द्वितीय वर्ष



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