

Sushant University

School of Engineering & Technology

VOL-5

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ABHIYANTRIKI

The Official Newsletter of
School of Engineering and Technology

EVENTS

FESTIVALS

CLUB CORNER

STUDENT & FACULTY ACHIEVEMENTS

ALUMNI PAGE

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FACULTY'S NOTE

DR. DINESH RAI



DEAR STUDENTS,

AS WE EMBARK ON A NEW SEMESTER, I WANT TO TAKE A MOMENT TO SHARE SOME WORDS OF ENCOURAGEMENT. EACH OF YOU BRINGS UNIQUE TALENTS, PERSPECTIVES, AND STRENGTHS TO OUR COMMUNITY, AND IT'S THESE DIFFERENCES THAT MAKE OUR COLLECTIVE EXPERIENCE SO RICH AND REWARDING.

THE PATH OF ACADEMIC PURSUIT IS OFTEN CHALLENGING, BUT REMEMBER THAT EVERY CHALLENGE YOU FACE IS AN OPPORTUNITY TO GROW. EMBRACE THESE MOMENTS AS THEY COME, AND DO NOT BE AFRAID TO STEP OUT OF YOUR COMFORT ZONE. WHETHER IT'S DIVING INTO A DIFFICULT SUBJECT, COLLABORATING WITH PEERS, OR SEEKING HELP WHEN YOU NEED IT, EACH STEP YOU TAKE IS A STRIDE TOWARDS YOUR PERSONAL AND PROFESSIONAL DEVELOPMENT.

OUR FACULTY IS HERE TO SUPPORT YOU EVERY STEP OF THE WAY. WE ARE COMMITTED TO PROVIDING YOU WITH THE TOOLS, GUIDANCE, AND ENCOURAGEMENT YOU NEED TO SUCCEED. DON'T HESITATE TO REACH OUT, ASK QUESTIONS, AND ENGAGE FULLY WITH YOUR STUDIES. YOUR SUCCESS IS OUR GREATEST REWARD, AND WE ARE INVESTED IN HELPING YOU ACHIEVE YOUR GOALS.

BELIEVE IN YOUR POTENTIAL, STAY CURIOUS, AND PERSEVERE. THE JOURNEY AHEAD IS FILLED WITH POSSIBILITIES, AND I AM CONFIDENT THAT YOU WILL ACCOMPLISH AMAZING THINGS. HEY@GREATPAPER.COM

EDITOR'S NOTE

Hello Everyone,

We are pleased to present the Newsletter for the October-December, 2023 quarter. A newsletter, as we all know, reflects a university's vision and mission while also promoting events, activities, and accomplishments. We have attempted to convey the excitement and activities of the last three months in this edition. We hope you enjoy the Newsletter and urge students to utilise it as a creative outlet.



Aaditya Gupta



Dr. Bindu Thukral
Editor-in Chief



Kshitij Gupta



Abhijit Mandal



Tanisha Garg



Divyanshi

SET EVENTS





EVENTS



UDBHAV FRESHERS: WELCOMING NEW BEGINNINGS

On October 13th, the university warmly welcomed first-year students with the UDBHAV Freshers event, organized by the second-year students. The day was filled with excitement and activities designed to help freshers integrate into the university community.

The event featured vibrant music and dance performances that showcased the talents of our student body. One of the highlights was the selection of Mr. and Ms. Freshers through a ramp walk and questionnaire round, where participants displayed their confidence and charm.

Food stalls offering a variety of delicious snacks added to the festive atmosphere, ensuring everyone had a great time.

UDBHAV Freshers set a positive tone for the academic year ahead, fostering friendships and creating lasting memories. The university thanks all the organizers, participants, and attendees for making the event a grand success. Welcome to Sushant University, freshers!

EVENTS

DIWALI FEST: A CELEBRATION OF LIGHTS AND CULTURE

On November 8th, the university celebrated Diwali Fest with an ethnic theme, transforming the basketball court into a vibrant hub of cultural activities. Students set up various stalls, adding to the festive atmosphere. The event featured a variety of small games, including musical chairs and a ramp walk, showcasing traditional attire and bringing out the competitive spirit among attendees. Music and dance performances captivated the audience, highlighting the diverse talents within our community.

An award distribution ceremony recognized outstanding contributions and achievements among the students. The evening concluded with a lively DJ session, where everyone danced and enjoyed the festive spirit.

Diwali Fest demonstrated the university's commitment to embracing cultural diversity and fostering community spirit. The event brought together students, faculty, and staff to celebrate the rich traditions of Diwali.





EVENTS



PRIZE DISTRIBUTION FOR LIVE PROJECT COMPETITION WINNERS

The prize distribution ceremony for the "Live Project Exhibition and Competition" took place in October and was graced by the Vice Chancellor along with other esteemed faculty members of SET.

Winners from the B.Tech Program:

- **First Position:** Billing and Ordering System for Canteen
- **Second Position:** Magic Cell
- **Second Position:** Kala Bazaar

Winner from the BCA Program:

- **First Position:** Online Voting System

The competition was fierce, with numerous outstanding projects that showcased the students' ingenuity and dedication. The Vice Chancellor and teachers praised the students for their hard work and innovative ideas, encouraging them to continue pursuing excellence in their academic and professional endeavors. The event concluded with a sense of achievement and inspiration, as students celebrated their success and looked forward to future opportunities to showcase their talents.





CLUB ACTIVITY



GIGGLE HOURS - ROTARACT CLUB

On December 23rd, 2023, the Rotaract Club of Sushant University conducted a heartwarming event called "Giggle Hours" at Udayan Care Home in Gurgaon. The primary aim was to interact with the children and bring joy to their day.

The club had gathered donations from its members to provide stationery for the children, ensuring they had the supplies needed for their studies and creative endeavors. To break the ice, the team engaged the children in various fun activities. The energy quickly built up as everyone participated in cricket and football matches, fostering a spirit of camaraderie and teamwork. As the sports activities wrapped up, the event concluded with a jamming session. Club members sang for the children, creating a joyful and lively atmosphere that resonated with everyone present.

Giggle Hours was a resounding success, leaving a lasting impact on the children and the Rotaract Club members. The event not only provided a day of fun and laughter but also strengthened the bond between the university and the local community.





SESSIONS



INNOVATION AND ENTREPRENEURSHIP IN THE AGE OF GENERATIVE AI

The School of Engineering and Technology, Sushant University, recently hosted an insightful guest lecture on “Innovation and Entrepreneurship in the Age of Generative AI,” presented by Dr. Hitendra Chaturvedi, Professor of Practice at W. P. Carey Supply Chain Management and Director of the MSIVD Program at The Design School, Arizona State University (ASU). This lecture delved into the rapid evolution of generative AI and its profound impact on entrepreneurial and intrapreneurial innovation.

The session provided a comprehensive overview of how generative AI, exemplified by technologies like ChatGPT, is just the beginning of a major technological upheaval. Participants learned about the emerging opportunities for smart innovators to create the next wave of unicorns by leveraging AI. Dr. Chaturvedi also discussed how leading universities are preparing students to integrate human creativity with AI capabilities, fostering unprecedented success. The lecture was an eye-opener, demonstrating the immense potential and transformative power of generative AI in the modern entrepreneurial landscape.



Sushant University
School of Engineering & Technology
School of Business

Guest LECTURE

“ INNOVATION & ENTREPRENEURSHIP IN THE AGE OF GENERATIVE AI ”

SPEAKER
DR. HITENDRA CHATURVEDI
Professor of Practice, W.P. Carey Supply Chain Management
Director of MSIVD Program, The Design School

09th OCTOBER, 2023
11:00AM to 12:00PM
Venue: D-421 - Auditorium

A yellow trophy cup with two handles sits on a purple base. The base has a rectangular pink plaque with a speckled pattern. The background is split vertically: white on the left and dark blue on the right.

Faculty & Student Achievements



FACULTY ACHIEVEMENTS



Dr. Isha Saini gave a Guest Talk on 'Current trends in materials' in a National Conference in FDP: Emerging technologies and their future scope at Sushant University.



Dr. Neha Gupta gave a Guest Talk on 'Data collection tools and techniques' in a National Conference in FDP: Insights to write a good research paper at Sushant University.

Dr. Isha Saini gave a Guest Talk on 'Selecting Journal for publication' in a National Conference in FDP: Insights to write a good research paper at Sushant University.





FACULTY ACHIEVEMENTS



Dr. Somya Tiwari presented a paper titled 'Use of Artificial Intelligence and machine learning for marketing automation' in an International Conference in ICAMRI 2023 at Sushant University.

Dr. Alpana Jijja presented a paper titled 'Prediction and Exploratory Data Analysis of Diabetes using Machine Learning' in an International Conference in ICCSAI 2023 at Sushant University.



Dr. Monika Khurana presented a paper titled 'CHALLENGES AND OPPORTUNITIES OF NATIONAL EDUCATION POLICY 2020 IN HIGHER EDUCATIONAL INSTITUTES' in an National Conference in The New Education Policy & Education Reforms: Rethinking Curriculum, Research, And Global Engagement 2023 at KCC Institute.



FACULTY ACHIEVEMENTS



Dr. Sherry Verma presented a paper titled 'DATA-DRIVEN DECISION MAKING IN EDUCATION' in an International Conference in ICAMRI 2023 at Sushant University, Gurrugram.



Prof. Inderjeet Kaur presented a paper titled 'Unleashing the potential of a Zero Waste Economy: A Review' in an International Conference in ICAMRI 2023 at Sushant University.

Dr. Alpana Jijja presented a paper titled 'The Extraction of valid information from Images using OpenCV' in an International Conference in ICAMRI 2023 at Sushant University.





FACULTY ACHIEVEMENTS



Prof. Meenakshi Gupta published a chapter titled 'An Intelligent IOT based Smart Healthcare Monitoring using Machine Learning' in Taylor and Francis.

Dr. Sherry Verma presented a paper titled 'Comparative Analysis of Heart Attack Prediction Models: K-nearest neighbors and Particle Swarm Optimization' in an International Conference in ICAMRI 2023 at Sushant University.



Dr. Monika Khurana presented a paper titled 'Comparison of Greenhouse Gas Emissions by Different Countries' in an International Conference in ICAMRI 2023 at Sushant University.



FACULTY ACHIEVEMENTS



Dr. Somya Tiwari presented a paper titled 'A review on Cyber Security Startups' in an International Conference in ICAMRI 2023 at Sushant University.



Prof. Antim Dev Mishra presented a paper titled 'Securing Network Devices Using Packet Tracer Simulation Software' in an International Conference in ICAMRI 2023 at Sushant University.



Mr. Anand Sharma presented a paper titled 'Parametric Optimization using Response Surface Methodology approach during Wire Electric Discharge Machining of Aluminium-based Metal Matrix Composite' in an International Conference in ICAMRI 2023 at Sushant University.





FACULTY ACHIEVEMENTS



Dr. Somya Tiwari presented a paper titled 'Hacking Healthcare- Motivations, Risks, and Repercussions' in an International Conference in ICAMRI 2023 at Sushant University.

Dr. Alpana Jijja presented a paper titled 'Prediction and Exploratory Data Analysis of Diabetes using Machine Learning' in an International Conference in ICAMRI 2023 at Sushant University.



Dr. Mukta Shiksha Kumari presented a paper titled 'Liquidity Provision in Ripple' in an International Conference in ICAMRI 2023 at Sushant University.



FACULTY ACHIEVEMENTS



Dr. Somya Tiwari presented a paper titled 'Self Driving Cars also known as Autonomous Vehicles (AV's)' in an International Conference in ICAMRI 2023 at Sushant University.

Dr. Alpana Jijja presented a paper titled 'Sentiment Analysis on online social networking data for the identification of depression using several AI techniques: A Literature Review' in an International Conference in ICCSAI 2023 at Galgotia University, Noida.



Dr. Mukta Shiksha Kumari presented a paper titled 'Blockchain-Powered Smart Contracts for Lottery Management System' in an International Conference in ICAMRI 2023 at Sushant University, Gurrugram.



FACULTY ACHIEVEMENTS



Dr. Manimala presented a paper titled 'Mathematical Model for Evaluation of Targeted Radionuclide Therapy' in an International Conference in ICAMRI 2023 at Sushant University, Gurugram.

Dr. Bindu Thakral presented a paper titled 'A Novel News Application for Staying Up-to-Date on the Latest News' in an International Conference in ICAMRI 2023 at Sushant University, Gurugram.



Dr. Neha Gupta gave a Guest Talk on 'Introduction to Generative Adversarial Networks' in a National Conference in FDP: FDP: Emerging technologies and their future scope at Sushant University.

STUDENT ACHIEVEMENTS



Simran Pandita and Aditya Sarkar, 2nd Year B.Tech Students, presented a paper titled “The Automation of Marketing Using Artificial Intelligence and Machine Learning” in an International Conference in ICAMRI 2023 at Sushant University, Gurugram.



Aditya Minz, Garv Lal and Yuvraj Singh, 2nd Year B.Tech Students, presented a paper titled 'Securing Digital Landscapes' in an International Conference in ICAMRI 2023 at Sushant University, Gurugram.



STUDENT ACHIEVEMENTS



Riya Chhillar, Wameeka Sharma and Usha Tanwar, 2nd Year B.Tech. Students, presented a paper titled 'Hacking Healthcare - Motivations, Risks, and Repercussions' in an International Conference in ICAMRI 2023 at Sushant University, Gurugram.



Yogesh Jha, a 2nd Year BCA Student, presented a paper titled 'A Novel News Application for Staying Up-to-Date on the Latest News' in an International Conference in ICAMRI 2023 at Sushant University, Gurugram.



Creative Zone



BLOGS



THE UNSEEN THREAT: UNDERSTANDING AND COMBATING CYBERBULLYING



Dr. Rinky Ahuja

In the digital age, where internet is an integral part of our daily lives, cyberbullying has emerged as a significant and alarming issue. Unlike traditional bullying, which is confined to physical spaces like schools or playgrounds, cyberbullying knows no boundaries. It can occur anytime and anywhere, making it a pervasive and relentless threat. This article delves into the various facets of cyberbullying, its impact on victims, and strategies to combat this modern-day menace.

What is Cyberbullying?

Cyberbullying involves the use of digital technologies, such as social media, messaging platforms, and online forums, to harass, threaten, or demean an individual. It can take many forms, including:

- Harassment:** Sending offensive, abusive, or threatening messages repeatedly.
- Doxing:** Publishing private or identifying information about someone without their consent.
- Impersonation:** Creating fake profiles to damage someone's reputation or relationships.
- Outing:** Sharing someone's private information or secrets publicly.
- Exclusion:** Deliberately excluding someone from online groups or activities.



BLOGS



The Impact of Cyberbullying

The effects of cyberbullying can be devastating and long-lasting. Victims may experience a range of emotional, psychological, and even physical consequences, including:

- 1. Emotional and Psychological Distress** : Cyberbullying can lead to severe emotional and psychological distress. Victims often experience anxiety, depression, and feelings of worthlessness. The relentless nature of online harassment can exacerbate these feelings, leading to a sense of helplessness and despair.
- 2. Academic and Professional Consequences** : Students who are bullied may struggle academically. The stress and distraction caused by cyberbullying can lead to decreased concentration, lower grades, and a loss of interest in school. In the workplace, employees may find it challenging to perform their duties effectively, impacting their career progression and professional reputation.
- 3. Social Isolation** : Victims of cyberbullying often feel isolated and withdrawn. The fear of further harassment can lead them to avoid social interactions, both online and offline. This isolation can further compound their emotional distress and erode their support networks.
- 4. Physical Health Issues** : The stress and anxiety caused by cyberbullying can manifest in physical symptoms such as headaches, stomachaches, and sleep disturbances. In extreme cases, victims may engage in self-harm or develop suicidal thoughts.

Conclusion

Cyberbullying is a complex and pervasive issue that requires a concerted effort from all sectors of society. By raising awareness, empowering victims, strengthening legislation, leveraging technology, and promoting positive online behavior, we can work towards creating a safer and more respectful digital world. It is imperative that we recognize the seriousness of cyberbullying and take proactive steps to protect individuals from its harmful effects. Only through collective action can we hope to mitigate this modern-day threat and ensure the internet remains a space where everyone can thrive.



BLOGS



Dr. Bindu Thakral

UNDERSTANDING NEP 2020: A TRANSFORMATIVE APPROACH TO EDUCATION IN INDIA

In July 2020, the Government of India introduced the National Education Policy (NEP) 2020, marking a significant shift in the country's educational landscape. The NEP 2020 aims to overhaul the Indian education system and align it with the needs of the 21st century, focusing on holistic development, flexibility, and inclusivity. This comprehensive policy encompasses various aspects of education, from early childhood to higher education, and vocational training. This article explores the key features of NEP 2020 and its potential impact on the Indian education system.

The Vision of NEP 2020

The NEP 2020 envisions an education system that contributes to transforming India into an equitable and vibrant knowledge society. It emphasizes a holistic, flexible, multidisciplinary approach to education that incorporates critical thinking, creativity, and ethical values. The policy aims to ensure that all students have access to quality education, regardless of their socio-economic background.

Key Features of NEP 2020

1. **Early Childhood Care and Education (ECCE)** : One of the standout features of NEP 2020 is its focus on Early Childhood Care and Education (ECCE). Recognizing the critical importance of early years, the policy proposes universal access to quality ECCE for all children aged 3-6 by 2030. The existing Anganwadi system will be strengthened, and new ECCE centers will be established. The policy also recommends integrating ECCE with primary schooling, forming a foundational stage covering ages 3-8, which includes three years of preschool and the first two years of primary school.
2. **Restructuring of School Education** : NEP 2020 proposes a new curricular structure, moving from the traditional 10+2 system to a 5+3+3+4 format. This structure corresponds to the following stages:
 - a. **Foundational Stage (ages 3-8)**: This includes five years of flexible, multilevel, play/activity-based learning.
 - b. **Preparatory Stage (ages 8-11)**: Covering three years of more structured learning with a focus on discovery, play, and activity-based methods.
 - c. **Middle Stage (ages 11-14)**: Comprising three years of learning, building on the preparatory stages with the introduction of abstract concepts in subjects.



BLOGS



3. **Emphasis on Multilingualism:** NEP 2020 highlights the importance of multilingualism in education. The policy advocates for the use of the mother tongue or local language as the medium of instruction up to at least Grade 5, but preferably till Grade 8. This approach is aimed at enhancing comprehension and learning outcomes. Additionally, students will be exposed to three languages in their curriculum, with the flexibility to choose based on regional and personal preferences.
4. **Holistic and Multidisciplinary Education :** A major shift in NEP 2020 is the emphasis on holistic and multidisciplinary education. The policy promotes the integration of humanities and arts with science, technology, engineering, and mathematics (STEM) subjects. This multidisciplinary approach is designed to foster critical thinking, creativity, and problem-solving skills. Schools and higher education institutions (HEIs) will be encouraged to offer flexible curricula, allowing students to choose their learning paths.
5. **Reforms in Higher Education :** NEP 2020 aims to increase the Gross Enrolment Ratio (GER) in higher education to 50% by 2035. The policy envisions a complete overhaul of the higher education system, focusing on multidisciplinary institutions with multiple entry and exit points. Key reforms include:
 - a. **Establishment of Multidisciplinary Education and Research Universities (MERUs):** These institutions will be modeled on the lines of IITs and IIMs, promoting high-quality education and research.
 - b. **Flexible Curricula:** Students will have the flexibility to choose their courses, and the system will allow multiple entry and exit points, with appropriate certification at each level (certificate after one year, diploma after two years, bachelor's degree after three years, and an optional fourth year for research).
 - c. **Higher Education Commission of India (HECI):** A single regulatory body for the entire higher education sector, excluding medical and legal education, will be established to ensure streamlined governance and quality control.

Conclusion

NEP 2020 is a bold and visionary policy that has the potential to transform the Indian education system. By focusing on holistic development, flexibility, and inclusivity, the policy aims to prepare students for the challenges of the 21st century. Successful implementation of NEP 2020 will require concerted efforts from all stakeholders, including the government, educational institutions, teachers, and the community at large. If executed effectively, NEP 2020 can pave the way for a brighter and more equitable future for education in India.



TALENT ZONE



ILLUSTRATION BY HARDIK SHARMA 3RD YEAR B.TECH. STUDENT



[@CODESTRATE](https://www.instagram.com/CODESTRATE)

PHOTOGRAPHY BY ABHIJIT MANDAL 3RD YEAR B.TECH. STUDENT

BEFORE



AFTER



To get your art/ talent featured in the next edition of newsletter mail it on binduthakral@sushantuniversity.edu.in

OUR RECRUITERS



ALUMNI PAGE



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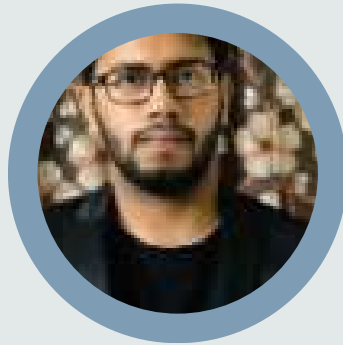
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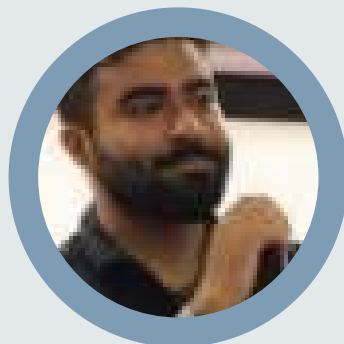
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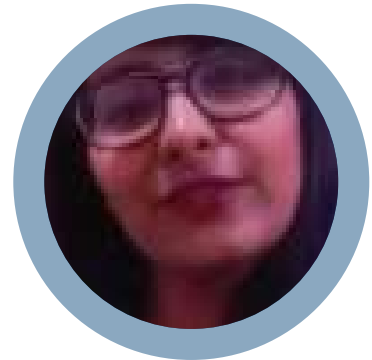
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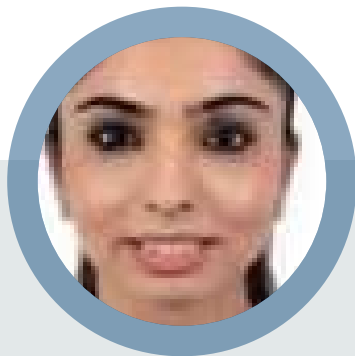
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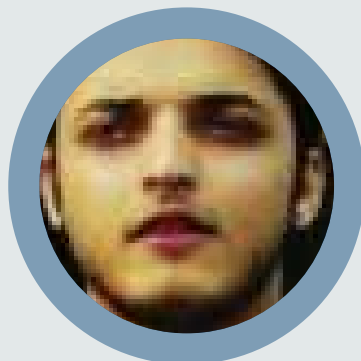
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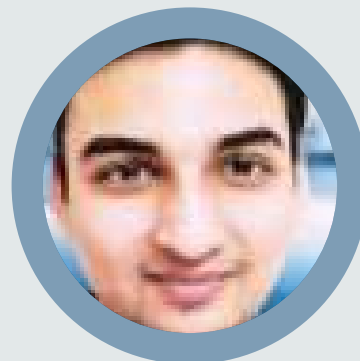
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