



JSS UNIVERSITY

C-Block, Phase 2, Sector 62, Noida,
Uttar Pradesh, 201301



Scitech Connect

JANUARY 2025, VOL - 2

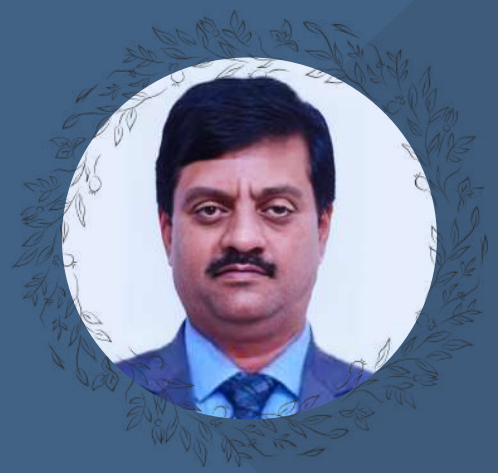
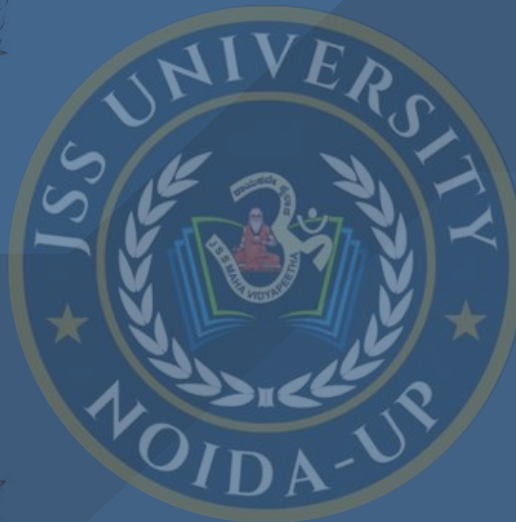


www.jssuninoida.edu.in

Vision & Mission

Vision

JSS University Noida aims to become an Institution of excellence in imparting quality Outcome Based Education that empowers the young generation with Knowledge, Skills, Research, Aptitude and Ethical values to solve Contemporary Challenging Problems.



Mission

1. Develop a platform for achieving globally acceptable level of intellectual acumen and technological competence.
2. Create an inspiring ambience that raises the motivation level for conducting quality research.
3. Provide an environment for acquiring ethical values and positive attitude.

Content overview

Curated Visuals of the First Governing Body Meeting

Rendezvous with the Pro chancellor

Editorial Insights-From the Desk of Chief Editor

Pillars of Administration

Our Key Pillars of Academic Rigors & Driving Forces

Campus Buzz-Activities across the University

Creative Corner

Technical Corner

Insight into Academics:- Students Speak

Glory Gallery

Infrastructure

Curated Visuals of the First Governing Body Meeting: Held on 24th October-2024





Rendezvous with the Pro Chancellor

"It's not the will to win that matters—everyone has that. It's the will to prepare to win that matters." – Paul Bryant

1. Could you please share your plans for the University in the coming years (over the next 5-10 years)?

Thank you. While it is too early for me to share the plans as it is only a few months since its establishment, broadly, over the next decade, our vision is to transform JSS University, Noida, into a premier global institution recognized for its excellence in education, research, and innovation. We aim to establish new research centers focused on cutting-edge technologies and societal challenges, expand our international partnerships to offer global exposure to our students and faculty and enhance our campus to support a growing student body with state-of-the-art facilities.

2. What are your priorities for improving academic performance at the university? Additionally, could you share your insight on enhancing the teaching-learning atmosphere at the university?

Improving academic performance is pivotal. Our strategy includes revising the curriculum regularly to keep pace with industry trends, investing in training our faculty with the latest teaching methodologies, and enhancing classroom and lab infrastructure to facilitate an engaging learning environment. Additionally, fostering a culture of continuous learning and critical thinking across the university will be crucial.

3. What are the prospective challenges for the university, and what are your suggestions for overcoming them?

As we expand, we will face challenges such as maintaining the quality of education, managing resource allocation, and staying competitive. To overcome these, we will leverage technology to optimize operations, engage more actively with industry leaders to ensure our courses meet market needs and continue to attract top-tier faculty and students by enhancing our academic reputation and facilities.

4. Could you please share your plans for brand building in this competitive world?

Brand building will be approached through excellence in academic programs, notable research contributions, and visible alumni success. We plan to boost our public relations efforts, increase our presence in academic and industry conferences, and leverage digital marketing to reach a broader audience globally.

5. What steps do you advise to introduce & promote innovative course offerings?

We will systematically assess emerging industry trends to introduce innovative courses. This involves collaborating closely with industry experts and international universities to co-develop programs providing our students with unique skills and a competitive edge. Encouraging cross-disciplinary programs and offering flexible learning paths will also be key strategies.

6. Sir, Could you please share your views/feedback on the current infrastructure of the university. Please highlight a few prominent features.

Our university is equipped with good laboratories and classrooms, and our vision is to convert them into advanced research labs and learning spaces that facilitate a rich learning environment. We plan to invest in sustainable and innovative campus solutions that enhance learning and promote an eco-friendly campus culture.

7. How do you suggest improving the overall student experience, both academically and in terms of extracurricular opportunities?

Enhancing the student experience involves curricular and extracurricular initiatives. Academically, integrating real-world projects and guest lectures from industry leaders will enrich learning. Extracurricular activities like expanding clubs, societies, and sports facilities will ensure a well-rounded campus life. Mental health support and career counseling will also be priorities.

8. How do you recommend the university ensure that the curriculum aligns with the ever-evolving demands of the job market and industry?

Regular curriculum updates in collaboration with industry partners and alumni feedback will ensure relevance. We will also focus on skills like critical thinking, creativity, and digital literacy, which are essential for the modern workplace. Modular courses and certifications in emerging technologies will prepare our students for future challenges.

9. Sir, Could you advise on promoting opportunities for internships, placements, and collaborations with both industry and foreign institutions?

We plan to enhance our career services by strengthening ties with corporate partners and international universities. Creating a dedicated team to manage these relationships will help secure more internships, research opportunities, and placement options. Hosting career fairs and alumni networking events will also be vital.

10. What message would you like to convey to the students, faculty, and staff as Pro-Chancellor?

I encourage every student, faculty member, and staff member to embrace the challenges ahead with optimism and determination. We are on a journey to enhance our educational offerings and make a significant impact on society. Let's commit to excellence, innovation, and compassion as we move forward.

Editorial Insights

From the Chief Editor's Desk



Great Reporting Starts with an editor who has a polite way to say everything.

We are elated to present this Second issue of the newsletter of prestigious JSS University. This Newsletter is our way of keeping everyone updated with every detail & development at the University. I hope that this issue will highlight the integral elements of JSS System as we have tried to cover all necessary aspects from students' corner to technical corner so that everyone's participation is assured. We will strive hard to continue the legacy of JSS Mahavidyapeetha and transfer education which will enable students to seek and understand the importance of values in their forthcoming years. JSS University will continue to equip students so that they will be able to face the challenges of outside world. We will help them grow into such a human being who will not only be efficient enough to compete with the world but he also will be able to lead a happy and satisfied life. University's syllabus has been designed with utmost diligence and efforts to make it industry ready. Students will get every opportunity to grow, they only have to sustain their energies and the desire to move towards the right direction. I expect students to the advantage of the resources available, harness their talents and help the society strengthen eventually as youngsters have the potential to do so. I extend my best wishes to the stakeholders of the university and I wish them to understand their roles and responsibilities and attain excellence through their tasks. May you achieve greater heights and lead enriching lives ahead!!

Mamatha T.G

Editor



Dr. Nishi Sharma

Creative Team



Utkarsh Srivastava, B.Tech CSDS



Sahal Parvez, B.Tech CSDS

Anchors of Administration



Dr. H.R. Mahadevaswamy
Vice Chancellor
(Officiating)

As soon as you open your mind to doing things differently, the doors of opportunity practically fly off their hinges.

Dear Students, Faculty and Staff members

I am delighted to share my thoughts through the second issue of the JSS University's Newsletter. JSS University is dedicated to catering to the burgeoning necessities in the realm of education. JSS University inherits the rich legacy and culture of JSS Mahavidyapeetha, which has been devoted for educational and social benefits. In this competitive environment, we are committed to providing students with the cutting- edge technology and state- of- the- art infrastructure so that so that their innovative mind can shape the society.

JSS is a well known organization having four reputed Universities which hold high ranking in NIRF and on global platforms.. As the founding & Officiating Vice Chancellor, I take it as an honour and a matter of pride to shoulder the responsibility of leading this university at such a pivotal moment in its inception. At JSS, We are committed to imparting quality education, nurturing a collaborative environment, cultivating a culture of inclusion and evolving an integrated system where the all-round development of students is our sole objective.

Through this Second Issue of the Newsletter, I encourage all students to foster their skills, nurture their talents, make the optimum use of time and resources provided by the university, which will eventually lead them to the path of success. I also want knowledge givers to stay motivated on the sacred path of teaching and learning and continue putting their best efforts.

All the Best!

Warm regards,
Dr. H.R. Mahadevaswamy
Vice Chancellor (Officiating)
JSS University, Noida

Anchors of Administration



Dr. T.G. Mamatha
Registrar (I/C)

I am dedicated to advancing the institution's mission of academic excellence, equity, and innovation in higher education. In addition to my administrative responsibilities, I am committed to promoting a culture of continuous improvement and innovation. By staying abreast of emerging trends in education and implementing best practices, I strive to position JSS University, Noida as a leader in academic excellence and student-centered learning. I view collaboration with faculty, staff, and students as essential to achieving our shared goals of academic excellence and student success so I look forward to working together with all stakeholders to continuously improve our academic services and support systems, ensuring that JSS University, Noida remains a leader in education.

Warm regards,
Dr.T.G.Mamatha

Greetings everyone

The initial years of any organization are full of challenges for the administration and academic staff. These years are equally crucial also as everyone involved into the system shoulders the responsibility of converting those challenges into opportunities. As I reflect on the collective achievements and look forward, I am reminded of the passion and dedication that JSS fraternity has brought to every task given to them. JSS University is a dream project of His Holiness Sri Shivarathri Deshikendra Mahaswamiji. I am sure that the JSS University will carry forward the legacy of JSS Mahavidyapeetha and create a niche in the realm of education. In addition to well qualified faculty members, we will ensure state of the art infrastructure including modern laboratories, cutting-edge technology and advanced workshops. This Newsletter will serve as a testament of our innovations, milestones and inspiring stories. It will also act as a source of tracking the achievements and understand the gaps in the way towards our goals.

I wish everyone a great success in their endeavors and look forward to achieve a lot together in the journey ahead.

CMDE. BK Gupta



CMDE. B.K. Gupta
Special Officer

Anchors of Administration



Mr. Manoj Kumar
Finance Officer (I/C)

To begin with, I congratulate JSS University to complete the first semester successfully. JSS University is the outcome of efforts made by various visionary leaders and contributors of JSS Mahavidyapeetha. Undoubtedly, establishing an institution lies in the hands of visionary leaders but its progress is solely dependent on the efforts made by its stakeholders and academic staff. I expect all of you to strive hard and take this university to the heights. I wish JSS University exponential growth and development so that together we convert the dream of His Holiness Jagadguru Sri Sri Shivarathri Deshikendra Swamiji, Dr. B.Suresh Sir & Dr. C.G Betsurmamath Sir into a reality.

I urge students to devote their time for their overall development and make their Alma matter famous as an institution achieve heights when its alumni attain prestigious positions in the Industry and Government.

Best wishes everyone to soar high. It is the time you can give wings to your ambitions!

Dear Readers,

Greetings of the Season!

It is a matter of great pride and satisfaction that JSS University, Noida, is bringing out the second issue of the Newsletter 'Scitech Connect'. I am confident that this issue of the Newsletter will share positive vibes among the staff members, students and all those who are interested in the educational and co-curricular activities of the university. A Newsletter is like a mirror which imparts a clear picture of all sorts of activities undertaken by an Institution / Department and develops writing skills among students in particular and teaching faculty in general.

I congratulate the Editorial Board of this Newsletter, who have played a wonderful role in accomplishing the task, and I express my deep sense of gratitude to all those who have worked in this regard.

My heartfelt Congratulations once again.

P Rajanna



Mr. P Rajanna
Public Relations Officer

Anchors of Administration

Dear Students, Faculty, and Members of the University,

I extend a warm welcome to you all. As this semester comes to an end and we are all set a new one, I extend my warmest greetings to everyone. Several steps have been taken by the examination section for enhancing examination and evaluation process. We are committed to make the process robust and secure for upholding the standards of JSS University. We are keeping pace with the digital world, hence the entire exam and evaluation system is digitized. The Office of the Controller of Examinations remains committed to ensuring a transparent, efficient, and student-centric examination system. I wish all the students, faculty & members of the University team a productive and successful years ahead.



Dr. Shiddayya S Shirur
Controller of Examination
(I/c)

Dr. Shiddayya S Shirur

Driving Forces of the University

- BE in Electronics Engineering from MNNIT Allahabad in 1999.
- ME in Embedded Systems from Shri G S Institute of Technology and Science Indore in 2004
- PhD in ECE (Wireless Sensor Networks) from Gautam Buddha University, Greater Noida (U.P.). 38 publications including indexed journals, conferences and book chapters
- One patent granted and 6 published.
- She is senior member IEEE, IETE and member of IoT and 5G focus group DOT, GOI.



Dr. Gayatri Shakya
Assistant Registrar

Driving Forces of the University



Dr. Veerendra Kumar A.N
Assistant Registrar
Academics

- Currently serving as an Assistant Professor and Assistant Registrar at JSS University.
- Holds a Master of Engineering Degree in Manufacturing Science & Engineering from Bangalore University.
- Bachelor's degree in Mechanical Engineering from Siddaganga Institute Technology, Bangalore University.
- With over 23 years of experience in academia and administration, he brings abundance expertise to his dual roles.
- Published about 15 research papers in reputed journals and has presented papers at various national and international conferences.

- Previously, he worked as Assistant Professor in the Department of Mechanical Engineering at JSS Academy of Technical Education, Noida.
- Pursuing Ph.D. from Sharda University, Greater Noida.
- With over 14 years of experience in teaching and research, he has presented multiple papers in various international conferences and authored papers for National and International Journals.
- His areas of interest include Supply Chain Management, Risks in Knowledge Process Outsourcing, Systems Engineering, and Tool Design.



Mr. Naveen Kumar
Assistant Registrar
Examination



Mr. Ganesh HS
Assistant Registrar
Administration

- Also an Assistant Professor (Dept. of ECE) at JSS University, Noida.
- with over a decade of teaching experience. He holds an M.Tech in Digital Electronics & Communication from VTU, Karnataka.
- B.E. in Electronics and Communication Engineering.
- His research focuses on AI-based human activity recognition, sensor technologies, and IoT applications.
- Published two patents in IoT-enabled health monitoring systems and production planning.
- Co-authored a book "Microprocessor & Microcontroller" (ISBN: 978-93-5996-719-6), a valuable resource designed for the students of Electronics Engineering.

Our Key Pillars of Academic Rigors



Dr. Dhiraj Pandey

HoD, CSE & Allied Branches

- Currently working as Professor and Head of Department of Computer science and Engineering, JSS University, Noida.
- He has over 21 years of academic and research experience and published over 50+ research articles in International Journals and Conferences of repute. i.e. Elsevier, Springer, Taylor& Francis, Inderscience, IGI global USA.
- Almost all the articles are SCI/Scopus indexed.
- Contributed as an author in several book chapters in leading publications such as Elsevier, springer etc.
- Has also been contributing as a reviewer for several international journals of repute.
- Associated with several technical societies of repute such as IEEE (Senior Member), ISTE (Life Member) etc. Guided more than 40 UG/PG level projects.
- Supervised two candidates for their doctoral research work (PhD) in the field of natural language processing and deep learning.

- Working as a Professor and Head of Chemistry at JSSUN.
- Also serving as Dean of Student Welfare and Academic Coordinator.
- With over 30 years of teaching and research experience, he has published 70+ papers, filed a patent, and guided 3 M.Sc. and 1 Ph.D.
- Research focuses on synthetic polymers, nanocomposites, eco-friendly polymers, and wastewater treatment.
- Lifetime member of the Indian Science Congress Association, Asian Polymer Association, ISAS-DC, ISTE, and the Green Chemistry Delhi Chapter. Additionally, he serves as a reviewer for Springer and various national journals.



Dr. Jagadish R.S

Dean Students Welfare
& HoD, Chemistry



Dr. Gunjan Varshney
HoD-Robotics &
Artificial Intelligence

- Currently working as Associate Professor R&AI JSS University, Noida.
- Ph.D in Electrical Engineering from UTU, Dehradun. Has more than 20 years of experience in the field of teaching, research and administration.
- More than 30 of her research papers have been published in journals and conferences at both the national and international levels.
- A Senior Member of IEEE USA and Life Member of Indian Society for Technical Education, ISTE.
- Serves as branch counsellor for the IEEE JSSATEN student branch
- Recently she has received outstanding branch counsellor award from IEEE MGA,USA -2023.
- Also the member of IEEE India Council Industry Academia Young Professionals Committee -2024.

- Associate Professor and Head ,Department of Physics, JSS University Noida, UP.
- She received her doctorate degree from the University of Allahabad in 2001.
- With a teaching experience of more than 17 years, Dr. Verma has published several research papers in various reputed national and international journals.



Dr. Richa Verma
HoD, Physics



**Dr. Vinita
Khemchandani**
HoD-Mathematics

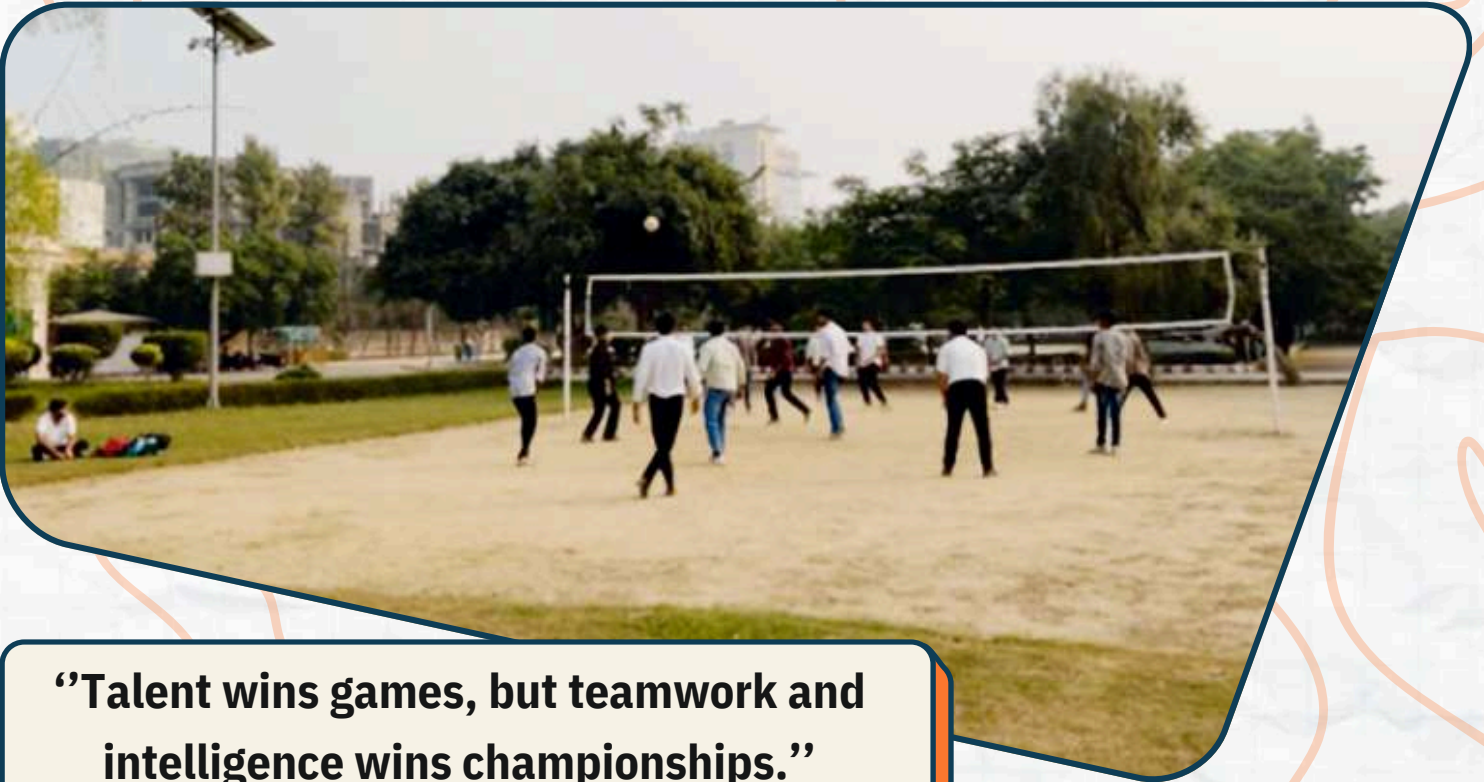
- Previously worked with JSS Academy of Technical Education, Noida for more than 15 years.
- Has an academic experience of more than 18 years.
- Ph.D. degree from the University of Rajasthan, Jaipur in the year 2017.
- M.Phil. (Master of Philosophy) from the University of Rajasthan, Jaipur in the year 2007.
- The area of specialization is Computational Fluid Dynamics, Numerical Techniques, Reliability Theory.
- Has been contributing to research in the said domain with good quality publications in international conferences and the reputed journals of (SCI/SCOPUS indexed).
- Also published books on Differential Equations and Engineering Mathematics for the undergraduates.

Academic Details

| U.G. Programs | Students Intake | P.G Programs | Students Enrolled |
|---------------------------------------------------------------|-----------------|-----------------------------------|-------------------|
| B.Tech-(CSE, CSE-DS, CSE-AIML,IT, ECE,R&AI) | 360 | M. Tech (CSE & Allied Branches) | 459 |
| | | M.Sc. (Physics, Chemistry, Maths) | |
| | | M.A.(English, Economics) | |
| | | M.Pharma | |
| D.Pharma | 60 | MCA | |
| B.Pharma | 100 | MBA- HR & Finance | |
| Doctoral Program in Physics, Chemistry, Mathematics & English | | | |

CAMPUS BUZZ

SPORTS ACTIVITIES

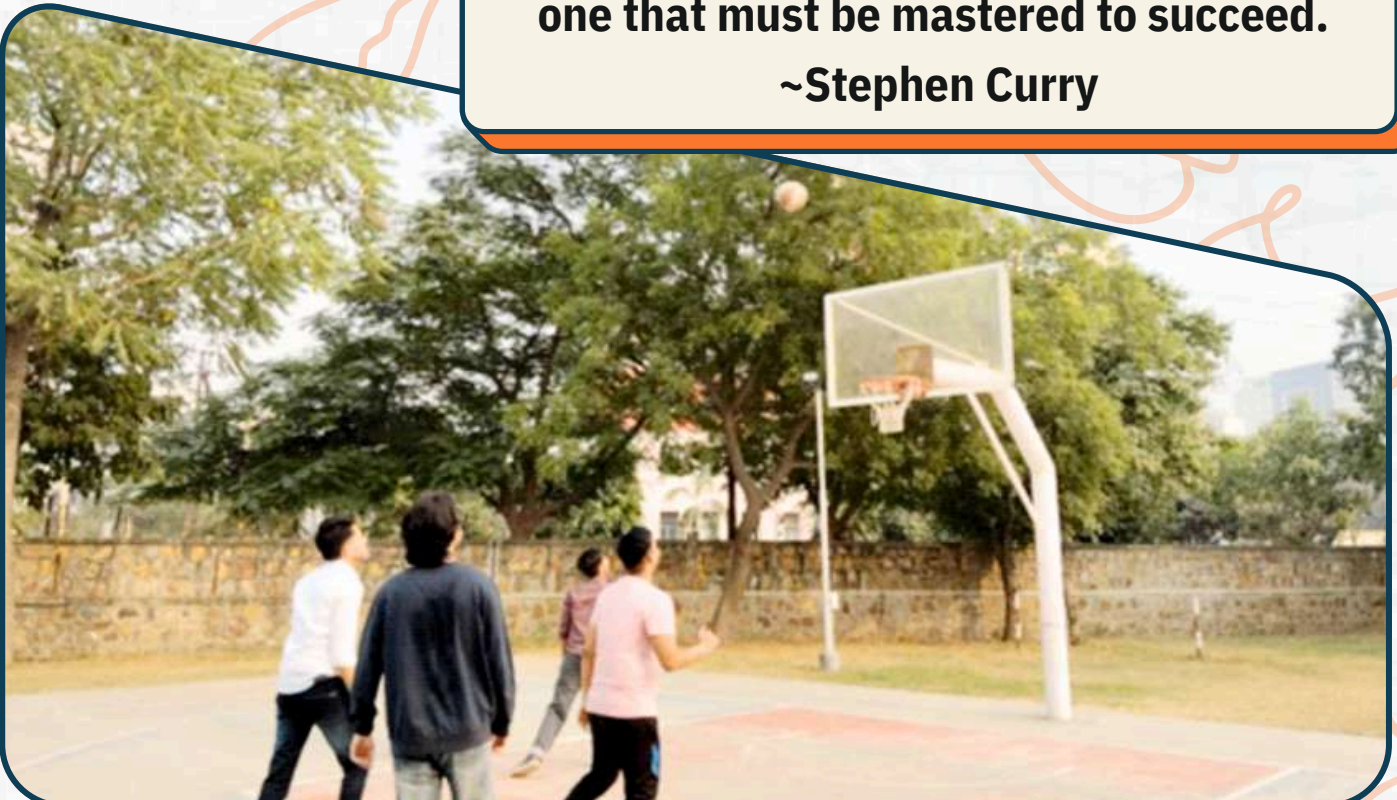


“Talent wins games, but teamwork and intelligence wins championships.”

~Michael Jordan

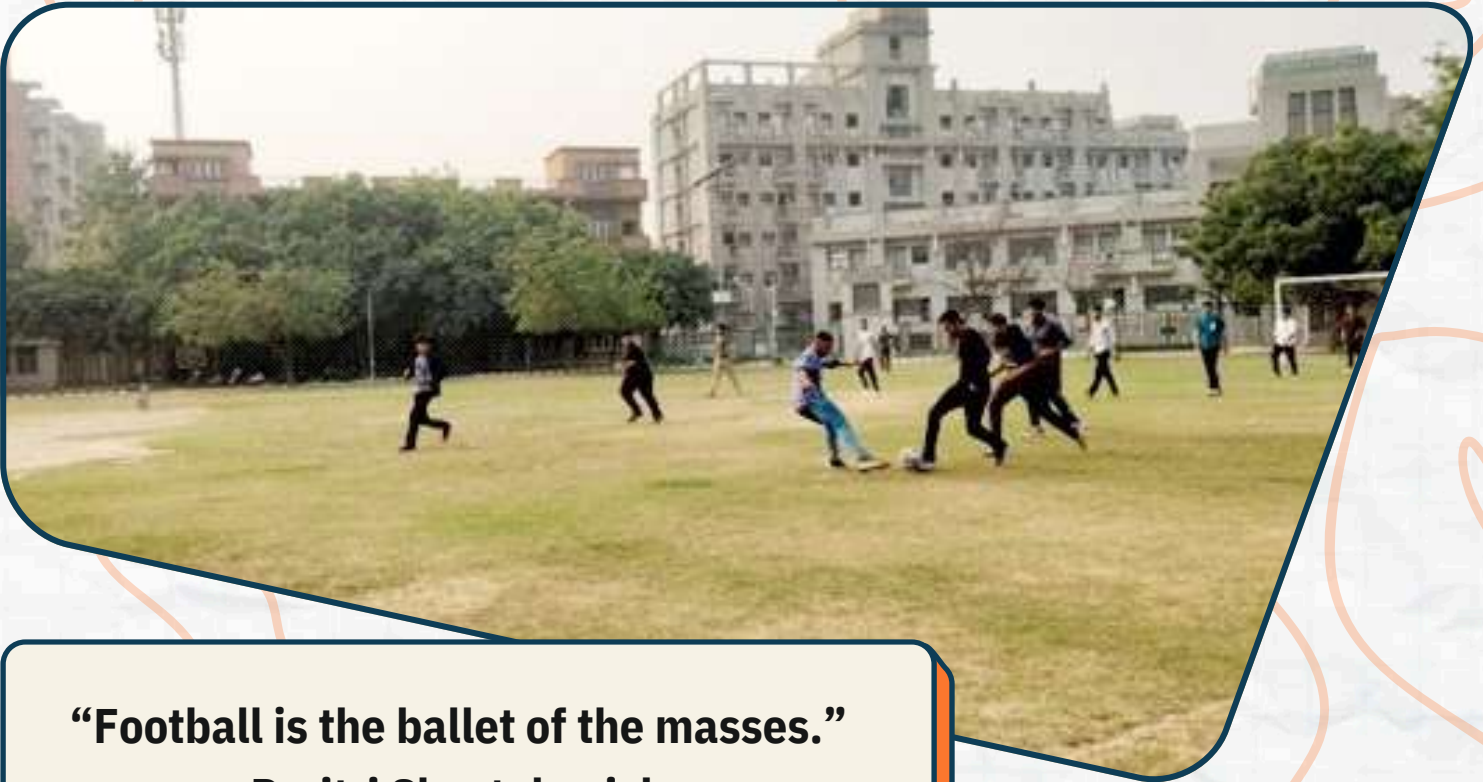
Basketball isn't just a sport, It is an art, one that must be mastered to succeed.

~Stephen Curry



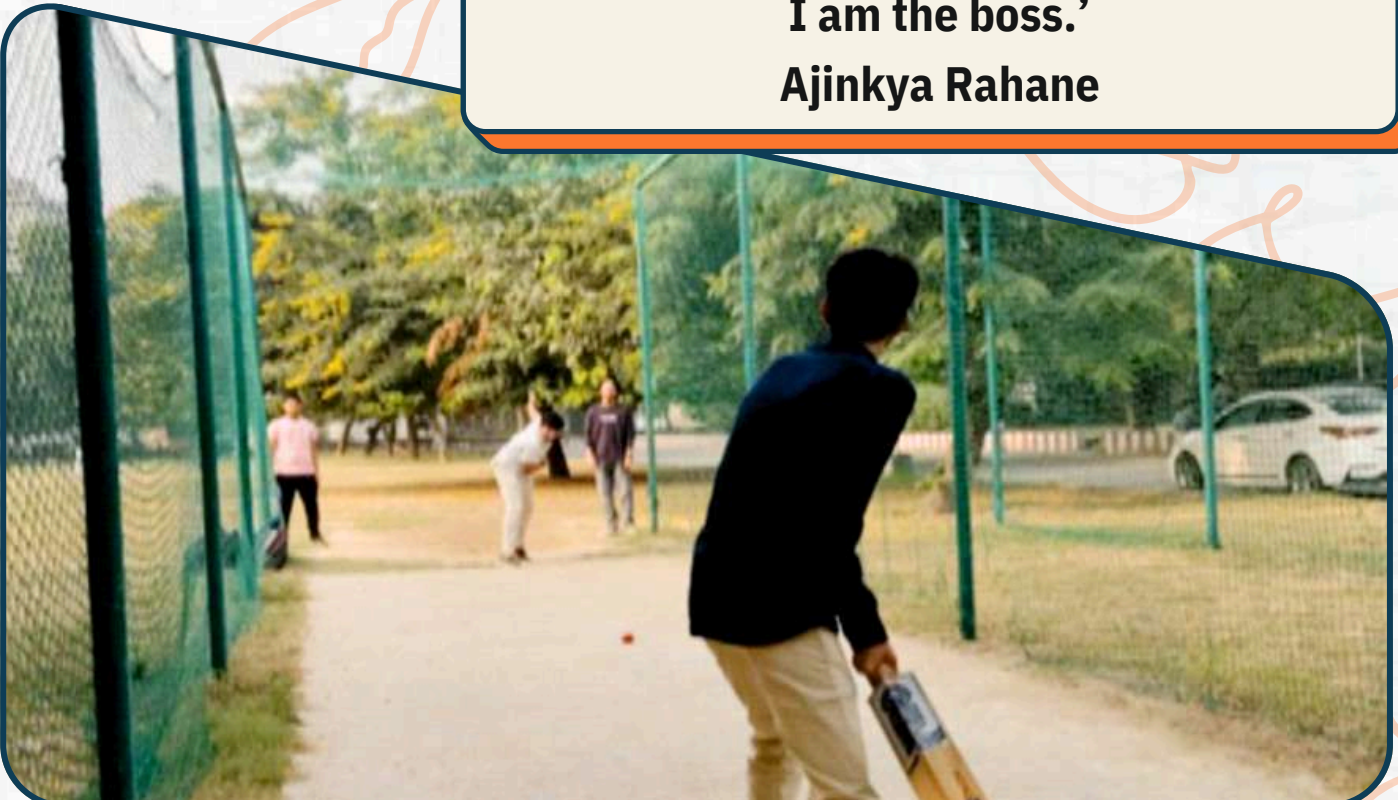
CAMPUS BUZZ

SPORTS ACTIVITIES



**“Football is the ballet of the masses.”
Dmitri Shostakovich**

**‘When I am batting on the crease,
I am the boss.’
Ajinkya Rahane**



Activities Arc

ALUMINI VISIT



A bouquet is a gentle reminder that guests are not just visitors but cherished souls.

*Tech Talk organized for providing students and faculty with insights into the latest advancements in engineering and pharmacy, emphasizing the importance of foundational knowledge in succeeding in emerging technologies by **Speaker: Mr. Digvijay Garg, Regional Director, Orane Consulting Private Limited.** and Mr. Digvijay is an alumnus of JSSATEN Batch 2002- 2006.*

The audience completes the story



ALUMINI VISIT

Mr. Asad Khan, CEO and Co-Founder of LambdaTest, delivering an inspiring talk on 'Navigating Career Paths: Insights from Corporate Alumni for First-Year Students' at JSS, NOIDA.



Activities Arc



From navigating early challenges to shaping successful careers, Mr. Asad offered practical guidance to help students set a strong foundation for the future.

TEACHER'S DAY CELEBRATION



Young Enthusiasts: incorporating their knowledge in their ideas and exhibiting through their oratory skills



Debate Competition



Nibble Computer Society & E-Quanta Event



In the hands of a student, technology becomes more than a tool

Students who can communicate technology effectively today will be the innovators of tomorrow.



"Technology is best when it brings people together." Matt Mullenweg

IEEE EVENT

To create awareness about IEEE and related benefits & opportunities & to conduct IEEE Membership drive for JSS University Students, an event was organized at the JSS University Campus. Interested set of students were guided in the steps being involved to getting the membership and most of the students got registered on spot.



Happy faces reflecting the success of the event



Curiosity is one of the most permanent and certain characteristics of a vigorous intellect." – Samuel Johnson

Demonstration of Online Platforms

An event was organized at the JSS University, Noida for the demonstration of Online platforms (like Infosys Spring Board, Leetcode, Takeuforward & HackerRank) and their usage for understanding their subjects better. Students also understood the practical approach of problem solving & how to use the practice platforms for subjects like data structures, programming language like C, Java, etc.



Online platforms are not just tools for communication; they are shaping the future of how we interact, learn, and grow.



The online world is not a replacement for the physical world—it's an expansion of it



Students trying to strive hard for making their learning experience better through online platforms

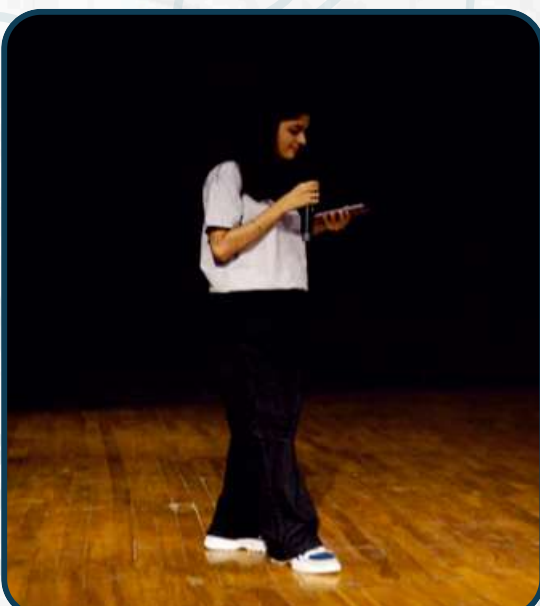
OUTREACH ACTIVITY

The objective of an outreach activity for college students is to engage them in learning experiences and initiatives that extend beyond the traditional classroom setting. It aims to:

- Foster a sense of responsibility and social awareness by involving students in community-driven initiatives.
- Develop soft skills like leadership, communication, teamwork.
- Help students become well-rounded individuals, fostering a sense of self-awareness and empowerment through service and participation.



True outreach is not just about helping others, but about making a meaningful impact that empowers them.



A willing heart ready to help others



When you reach out to others, you are not only helping them but enriching your own soul.

GUEST LECTURE ON INDIAN KNOWLEDGE SYSTEM



Dr. Debi Prasad Mishra, Director, NITTTTR, Kolkata started his speech with a few shlokas from Bhagwad Geeta. He delineated his speech on Indian Knowledge System wherein he exhibited his immense knowledge of the subject and told everyone the importance of Indian knowledge System.

The ancient Indian knowledge system, based on the Vedas, is a treasure trove of insights into the nature of the universe and the mind.



Felicitation is not just a gesture; it's a celebration of the guest's contributions, presence, and impact.

MYTHRI 2024

The much-awaited annual sports meet, MYTHRI 2024, commenced on **2nd December 2024** with a grand inauguration ceremony held at the Multi-Purpose Hall (MPH), JSS Institution, Noida. The inauguration ceremony was graced by prominent figures including Dr. Md. Afzal Azam, Principal, College of Pharmacy; Dr. Amarjeet Singh, Principal, JSSATE Noida, Dr. Mamatha TG, Registrar, JSS University, Noida, The event was graced by the Chief Guest, Shri. Abhinav Sharma, Dy. Director, SAI, New Delhi.



Dignitaries welcoming the Chief Guest



LAMP LIGHTING CEREMONY:

lighting a lamp is a reminder that even in the darkest moments, light will find its way.

VALEDICTORY CEREMONY- MYTHRI 2024

The Valedictory/Prize Distribution Ceremony on 10th December 2024 was a much-awaited event for the students, recognizing their efforts and achievements. Dr. H.R. Mahadevaswamy, Vice Chancellor, JSS University Noida (JSSUN), and Joint Director, JSS Mahavidyapeetha, Mysuru, graced the occasion as the Chief Guest for the ceremony. Dr. Amarjeet Singh, Principal, welcomed the esteemed guests, members on the dais, Deans, various Heads of Departments off the dais, faculty members, staff, and students.



'The most welcome Guest will ever be the one to whose mind everything is a suggestion and whose words suggest something to everybody.'

Sarah Josepha Hale

Congratulating the winners & motivating those who tried.
Vice Chancellor, JSS University & Joint Director, JSS Mahavidyapeetha, Mysuru,



'A great accomplishment shouldn't be the end of the road, just the starting point for the next leap forward.' Harvey Mackay

EXPERT TALK

An expert talk was organised by JSS University Noida on the topic “Social Media Branding Strategies Turning Clicks into Customers”. The expert talk was delivered by Dr. M.N. Nagendra Prasad , Dean SAAE, JSS STU , Mysuru. The event began with an impressive gathering of dignitaries, faculty members, and enthusiastic students.



Guest lectures are like windows to the world—offering fresh views and broadening our understanding.



Satiated faces reflect the attainment of the outcome

SCIENTIFIC TALK WITH AUBURN UNIVERSITY, USA



“Coming together is the beginning. Keeping together is progress. Working together is success.” - Henry Ford

CREATIVE CORNER

The urge to perch alone The urge to savor soul All hinder by the abrasive source

Walking through the route Carrying trust of the root Aiming to achieve fruit in the end of the route.

Killing dreams, passions and thousand of other emotions All the urge surpass the motion

Can't share emotion , can't share outline All the goats are the similar souls Whether it's buckling wearing a coat, Always have thought to achieve the fruit at the end of the route.

Need to boot once in a shoot Need help from the charming roots Give them perch to sit and feel And ending there urge to retain there Souls and removing there emotional rids.

Surya Tyagi, B.Tech-CSE

"The echo of my heart"

(A self written poem)

I pluck my nerves out to the highest note, Yet I fall from the sky to get shrouded beneath the roots.

The echo of my heart whispers in your ears, I pass by the time, seeing the molten candle melting in tears.

I stand here on the soil where I plucked the flower from, Sowing ruin in the home where the carcasses lying, once stood strong.

Vidyanshi Vajpai, B.Tech-IT



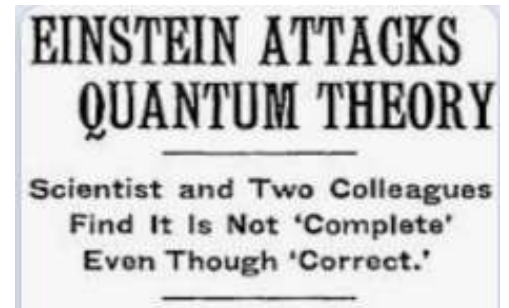
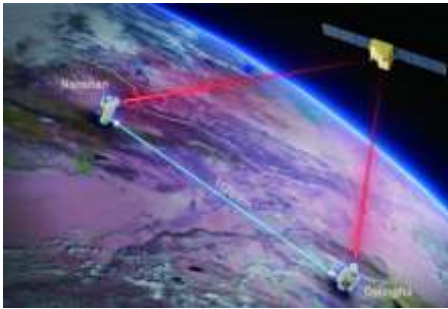
Kartikey Varshney-B.Tech-CSDS



Tanishka Trehan, B.Tech-IT

TECHNICAL CORNER

Quantum Entanglement: The Foundation of Secure Communication



All of physics as we know it today stands on the profound foundations laid by Einstein. His contributions reshaped our understanding of the universe. His equations from the special theory of relativity redefined the concepts of space and time, his work on Brownian motion laid the groundwork for statistical mechanics, and his explanation of the photoelectric effect set the stage for the development of quantum mechanics. These breakthroughs continue to drive advancements in fields such as astrophysics, condensed matter physics, and quantum information.

Despite his revolutionary work, Einstein himself was critical of certain aspects of quantum mechanics. He famously remarked, "God does not play dice," expressing his discomfort with the probabilistic nature of the theory. He was particularly troubled by the phenomenon of quantum entanglement, which he referred to as "spooky action at a distance." This discomfort led him, along with Boris Podolsky and Nathan Rosen, to publish the landmark EPR paper. This famous EPR paper argued that quantum mechanics was incomplete and highlighted how, in entangled systems, the measurement of one particle's state instantaneously determines the state of the other, irrespective of the distance separating them. This instantaneous interaction appeared to violate Einstein's principle of relativity, which rules that no signal can travel faster than light.

Ironically, the very phenomenon Einstein criticized is now leading the revolution in modern secure communication. Quantum entanglement is central to quantum key distribution (QKD), where two parties A and B communicating with each other share pairs of entangled photons. The properties of these photons, are correlated due to their entanglement. If any person or a machine attempts to intercept and measure the particles, the wave function collapses, introducing detectable errors into the system. This ensures the security of the communication by making any unauthorized access immediately visible.

QKD is being implemented in high security financial sectors and government communications. The quantum satellite, Micius has also demonstrated QKD over long distances, displaying the real-world application of this technology. Thus a concept which was once a source of skepticism is now leading the field of secure communication exemplifying how scientific ideas can evolve in unexpected ways to transform our world.

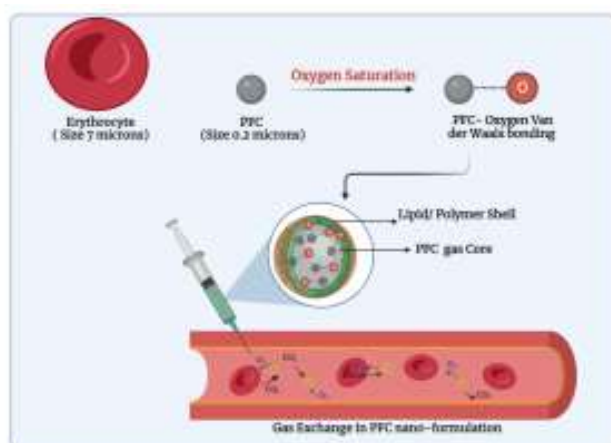
Dr Richa Verma

19/12/24 Ref; A. Einstein, B. Podolsky, and N. Rosen, Phys. Rev. 47, 777 (1935).

TECHNICAL CORNER

Artificial Blood Technology to Deliver Oxygen on the Battlefield

In today's war world timely and efficient medical intervention is crucial to save lives. One of the most difficult issues on the battlefield is dealing with significant blood loss and ensuring that injured soldiers have enough oxygen while waiting for evacuation or transfusion. Artificial blood technology is developing as a possible answer to this problem, offering a portable and efficient way to give oxygen to tissues during crucial moments. Artificial blood alternatives, such as perfluorocarbon-based emulsions (PFCs) and hemoglobin-based oxygen carriers (HBOCs), are intended to mimic the oxygen-carrying capabilities of red blood cells. Unlike real blood, replacements for blood do not require cross-matching, making them globally compatible and readily available. They can be kept for extended periods of time and survive high temperatures, making them suitable for deployment in battle zones.



Perfluorocarbons (PFCs) may dissolve enormous amounts of oxygen and are especially effective in supplying oxygen to tissues in low-oxygen environments. In contrast, hemoglobin-based carriers employ pure hemoglobin to efficiently carry oxygen without the requirement for donor blood.

Artificial blood technologies, by assuring rapid availability of oxygen, can assist stabilize severely injured warriors, minimize the danger of organ failure, and increase survival rates before they can receive advanced medical care. As research progresses, these technologies have the potential to change military medicine, providing a lifesaving advantage on the battlefield.

Dr. Anindita De
Assistant Professor , School of Pharmacy, JSS University Noida

Insight into Academics: Students Speak

I am currently pursuing B.Tech in CSE at JSS University, Noida, and I would like to express my appreciation for the various events organized by the college, such as industry conclaves, interactive sessions with alumni and experts, and the academic focus that keeps us engaged with assignments and frequent quizzes on every topic. The dedication of our teachers in ensuring a thorough understanding of the subjects is commendable. However, while the academic and professional development aspects are well-covered, I feel the cultural side needs more attention. There haven't been any fests, freshers' events, or other cultural activities so far. Such events are equally important for holistic student development, fostering creativity, teamwork, and a sense of belonging on campus.

Panna Tyagi, B.Tech.-CSE

Recently I joined B.Tech program of the JSS University in the CSE branch, It stands out for its exceptional teaching methods and highly efficient faculty who make complex concepts easy to grasp through interactive and innovative approaches. The well- structured and Modern curriculum created by them provide hands-on experience and foster practical learning by not relying only on books. Regular events, including alumni sessions, seminars, and workshops, ensure a vibrant campus life and provide ample opportunities for students to showcase their talents and learn beyond academics. The student crowd is diverse and collaborative, creating an inclusive and supportive environment that encourages personal and professional growth. Overall, the college offers a perfect balance of academic excellence and holistic development.

Surya Pratap Tyagi, B.Tech-CSE

My Transformative journey from School life to College life has offered me a blend of personal growth and social exploration. This is all possible because of the environment provided by my College. My time at JSS University has been exciting and motivating. Professors are knowledgeable and highly qualified, they focus on their curriculum strictly and genuinely care about students career. Courses provided are really challenging or hard but Professors are experienced enough to handle it and make it easy for students. College also supports Social and personal growth, there are different societies that help to do so. Talking about the library, labs and campus they are beautiful and well maintained apart from that Faculties are really helping and supporting. I am excited for new development projects ahead which is a constant feature of the campus and which makes its curriculum updated.

Tej Prakash Mishra, B.Tech CSDS

GLORY GALLERY

Mr. Vishvajeet and Mr. Anshul Kanswal , Students of B.Tech. First semester of CS-AIML Branch, represented JSS University Noida and attended eYantra ideation workshop at Cluster Innovation Centre, New Delhi.



Winner of Mixed Double Badminton & Table Tennis: Mythri 2024- Aditi Tomer- CSDS

ARYAN SINGH GULIA, RUNNER UP IN VOLLEY BALL IN MYTHRI-2024



Faculty Achievements-2024

Dr. Ved Pal chaired a Session for the DST - SERB sponsored 4th international conference on innovation in chemical biological and pharmaceutical sciences. Institute of Pharmaceutical Research, GLA institutions, Mathura, Uttar Pradesh from October 4th to October 5th. 2024



Dr. Sonam Patel won the best poster award in APTICON 2024: 27th Annual National Convention of the Association of Pharmaceutical Teachers of India on 6th & 7th October 2024

Mr. Lokesh Gupta received felicitation by Dr. Indresh Kumar (RSS National Committee Member) in Bharat Shiksha Expo 2024 on 13th November 2024.



Ms. Archita Katrolia received Best Oral Presentation Award in the International conference on "Advancements in Basic Science, Environmental Studies, and Traditional Medicine for Translational Drug Discovery and Development (TMT3D-2024)" at Institute of Medical Sciences, Banaras Hindu University, Varanasi, India (November 2024)

Ms. Sonali Jayronia and Dr. Kowmudi Gullapalli presented paper in an International Conference on 'Transformative Journeys: Harnessing AI and Innovation for Sustainable Development of Pharmaceutical and Healthcare Sector' organized by Lloyd Institute of Management and Technology, Greater Noida on 14th December 2024.



B.Pharmacy 4th Year Student Kavia Sharma Won 1st Prize in Oral Presentation (under the guidance of Dr. Anindita De) in an International Conference on 'Transformative Journeys: Harnessing AI and Innovation for Sustainable Development of Pharmaceutical and Healthcare Sector,' organized by Lloyd Institute of Management and Technology, Greater Noida, on 14th December 2024

Dr. Anindita de published 2 SCI Index Articles:

One on "Photodynamic and sonodynamic therapy synergy: mechanistic insights and cellular responses against glioblastoma multiforme." Journal of Drug Targeting just-accepted (2024): 1-23. (Impact Factor 4.6)

Second on "A DR4, DR5 Targeting Conjugated TRAIL Treatment for Colorectal Carcinogenesis: A Way to Future?." Pharmaceutical Sciences (2024). (Impact Factor 1.6)

Dr. Anindita De and Dr. Sonam Patel were invited as evaluators for SPARC sponsored International Research Conclave 'Beyond Microplastic,' from 16th to 17th December 2024 at JSS College of Pharmacy, Ooty, India



Dr. Gayatri Sakya published a paper in an SCI Journal (impact factor 1.9) on an Intelligent IoT Based Landfill Fire Prediction and Prevention System. *Wireless Pers Commun* (2024). <https://doi.org/10.1007/s11277-024-11702-2>.

Dr. Gayatri Sakya filed a patent with the title "AN AUTOMATED AGRICULTURAL ASSISTANCE SYSTEM." APPLICATION NO: 202411103037

Dr. Richa Verma participated as a special speaker at the Annual International Congress on Renewable Energy, held in Oxford, United Kingdom, from September 3- 5, 2024.

Dr. Richa Verma and Pratima Rajput published a paper titled "Enhanced Energy Transfer via Surface Plasmons in Ternary Liquid Systems of Coumarin-151, Ethanol, and Benzaldehyde" in the *Journal of Applied Physics* (Volume 136, 083101, 2024). DOI: [10.1063/5.0216371](https://doi.org/10.1063/5.0216371), Indexed in WOS and Scopus (Impact Factor: 2.7, Q2).

Dr. Gunjan Varshney, Associate Professor & Head, Department of RAI contributed as track chair –Innovation Challenge Track in grand finale of IEEE Youth Endeavours for Social Innovation -2024 (YESIST) from 7th September to 8th September 2024 at Tunis Science City , Tunisia.



Dr. Gunjan Varshney, Associate professor & Head, Department of RAI chaired a session represented JSS University Noida & TPC Member at TENSYP -2024 - IEEE Region10(Asia-Pacific) Annual conference held at NSUT, New Delhi from 27th September to 29th september-2024.

Dr. Ranu Pandey was invited to be a part of Judging committee to attend IRIS (Initiative for research and innovation in STEM) National Fair on 1 & 2nd December 2024 held at Dr Ambedkar International Centre, Janpath, New Delhi.



Dr. Jaspreet Kaur published a book chapter “Optimizing Sustainability: Harnessing AI for Personalized Electric Vehicle Energy Management” in “Optimized Energy Management Strategies for Electric Vehicles” book, IGI Global, Dec 2024. DOI: 10.4018/979-8-3693-6844-2.



Infrastructure



"The true measure of an institution's greatness lies in its ability to provide both intellectual and physical spaces for growth."



Infrastructure

Laboratories



Infrastructure

Laboratories



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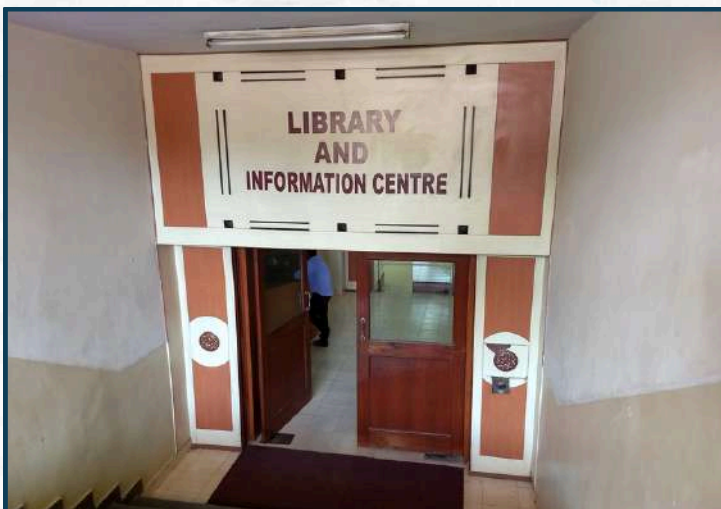
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