

THE SKIT TIMES

# Astralogue



WHISPERS FROM  
THE COSMIC VEIL

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## VISION

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

## MISSION

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

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# THE EDITOR SPEAKS



## ASTRALOGUE: CHARTING THE COSMOS WITH IN AND BEYOND

As civilizations have risen and fallen, as epochs have turned their gilded pages, one enduring impulse has remained unaltered—the human desire to look beyond, to probe the unknown, to seek meaning in the vast cosmic theatre above. From the earliest astronomers charting the silent procession of the heavens to the poets and philosophers who saw in the stars the echoes of our existence, the celestial realm has long been both a mirror and a mystery, reflecting the boundless scope of human inquiry.

In our previous edition, *Together We Grow*, we celebrated the spirit of unity and collective endeavour, recognizing that progress is seldom an isolated pursuit. It was a momentous occasion—the inauguration of thematic editions in our college's literary odyssey—one that underscored the profound interplay between collaboration and personal growth. Now, in this edition, *Astra Logue*, we turn our gaze skyward, embracing the infinite as we embark on an intellectual and artistic voyage across the celestial expanse.

At its heart, *Astra Logue* is not merely an exploration of the cosmos as a physical entity, but an examination of its philosophical, scientific, and literary resonances. The universe, after all, is more than a vast stretch of void speckled with burning spheres—it is a testament to curiosity, an eternal canvas upon which humanity has inscribed its questions, theories, and dreams. This issue seeks to capture that very essence—the confluence of scientific rigor and poetic wonder, the delicate equilibrium between empirical truth and imaginative speculation. Within these pages, you will encounter reflections on the mysteries of space-time, musings on the metaphysical implications of an ever-expanding universe, and inquiries into the delicate cosmic order that governs all things, from the birth of stars to the rhythm of human thought. We traverse the frontiers of astrophysics and mythology alike, weaving narratives that remind us that to explore the stars is, in a sense, to explore ourselves.

Yet, this issue is not solely an ode to the heavens; it is, above all, a tribute to the insatiable human spirit—the same spirit that has, for millennia, deciphered constellations, constructed civilizations, and sought enlightenment in the face of the unfathomable. In bridging the cosmic and the cerebral, we reaffirm a simple truth: that the quest for knowledge is as infinite as the universe itself.

So, let these words be your celestial compass. May this edition kindle the fires of curiosity, ignite new dialogues, and remind us all that beyond every horizon—whether terrestrial or cosmic—lies an opportunity to wonder, to discover, and to dream.

**Rohit S. Thanvi**  
**Student Editor-in-Chief**  
**CSE II Yr**



# CYNOSURE OF THE ISSUE

## THE CELESTIAL ODYSSEY: A JOURNEY THROUGH THE DEVELOPMENT OF ASTRONOMY

From the first flicker of human curiosity to the modern conquest of the cosmos, the journey of astronomy is a testament to the unyielding pursuit of knowledge. Across millennia and civilizations, humankind has deciphered the celestial tapestry, unveiling the secrets of the universe with relentless ambition. This odyssey, spanning cultures and epochs, is a narrative of intellect, innovation, and cosmic wonder.



## THE DAWN OF ASTRONOMICAL THOUGHT

The infancy of astronomy was cradled in the eyes of ancient observers who marvelled at the cosmic ballet above. The prehistoric alignment of megalithic structures, such as Stonehenge, hints at early attempts to track celestial motions. Yet, it was in Mesopotamia, the cradle of civilization, that the first systematic astronomical records were etched into clay tablets. The Sumerians, with their base-60 numerical system, laid the foundation for celestial calculations, while the Babylonians refined planetary tracking and devised the zodiac.

## INDIA: THE CRADLE OF ASTRONOMICAL WISDOM

Among the most profound contributors to astronomy, India stands as an unparalleled beacon of celestial knowledge. Indian astronomy, deeply embedded in the Vedas and ancient scriptures, laid the foundation for many modern astronomical concepts' millennia ago. The Rigveda, traditionally dated by Hindu



scholars to thousands of years before common estimates, contains descriptions of planetary movements, eclipses, and the concept of the universe as an infinite entity.

The Surya Siddhanta, an advanced astronomical text that is believed to date back over 12,000 years in oral tradition, provided astonishingly precise calculations of planetary orbits, the Earth's diameter, and the duration of a year—values remarkably close to modern measurements. Aryabhata, the great Indian mathematician-astronomer of the 5th century CE, proposed that the Earth rotates on its axis, a revolutionary idea preceding Copernicus by a millennium. He also calculated the value of  $\pi$  (pi) with high precision and developed a heliocentric model that suggested planetary motion around the Sun.

Brahma Gupta, another towering figure of Indian astronomy, introduced methods to predict eclipses with remarkable accuracy and defined gravity centuries before Newton. The Siddhanta traditions, culminating in texts like the Brahmasphutasiddhanta, established a scientific approach to celestial mechanics, influencing Islamic and European astronomy through translations.

The grandeur of Indian observatories is also embodied in the Jantar Mantar, constructed by Maharaja Jai Singh II in the 18th century, which remains a testament to India's enduring legacy in observational astronomy.

## EGYPT AND THE COSMIC ORDER

The Egyptians, guided by a celestial order deeply intertwined with their theology, orchestrated their lives in accordance with the stars. The Great Pyramid of Giza, aligned precisely with Orion's Belt, stands as an enduring monument to their astronomical precision. The heliacal rising of Sirius heralded the annual flooding of the Nile, showcasing an early marriage of astronomy and practical necessity.





Egyptian temples and tombs were aligned with celestial objects, emphasizing the belief in a cosmic connection between the heavens and the afterlife. The temple of Karnak, for example, was oriented to track the solstices. The earliest known star charts, discovered in tombs, illustrate the Egyptians' systematic approach to mapping the night sky. The Dendera Zodiac, a bas-relief celestial map, further attests to their sophisticated understanding of constellations and planetary movements.

## THE HELLENISTIC REVOLUTION

As the intellectual torch passed to the Greeks, astronomy underwent a profound transformation. Thales proposed that celestial events were predictable, not divine whims. Pythagoras envisioned a universe governed by mathematical harmony, while Anaximander speculated about celestial spheres. The towering figures of Aristotle and Eudoxus refined geocentric models, yet it was Aristarchus of Samos who, in a whisper against the prevailing winds, suggested a heliocentric cosmos centuries before Copernicus.



The zenith of Greek astronomical thought materialized in the works of Hipparchus and Ptolemy. Hipparchus, the progenitor of trigonometry, catalogued over 1,000 stars and discovered the precession of the equinoxes. Ptolemy's *Almagest* crystallized the geocentric paradigm, reigning supreme for over a millennium.

The heliacal rising of Sirius heralded the annual flooding of the Nile,

## THE GOLDEN AGE OF ISLAMIC ASTRONOMY

With the decline of Greco-Roman influence, the Islamic world became the beacon of scientific inquiry. Scholars such as Al-Battani refined Ptolemaic models, while Al-Zarqali's Toledo Tables improved celestial calculations. The House of Wisdom in Baghdad emerged as a crucible of knowledge, where Al-Khwarizmi's algorithms and Ibn al-Shatir's planetary theories foreshadowed Copernican insights.

Observatories like those in Maragheh and Samarkand became centres for precise astronomical measurements. Nasir al-Din al-Tusi developed the Tusi couple, a mathematical tool that influenced later European models of planetary motion.



## THE RENAISSANCE AND THE COSMIC REBIRTH

The Renaissance rekindled the celestial flame, illuminating the universe anew. Nicolaus Copernicus shattered Ptolemaic orthodoxy with his heliocentric model, a radical paradigm shift that sparked the Scientific Revolution. Galileo Galilei, armed with his telescope, unveiled lunar craters, Jovian moons, and the phases of Venus—empirical daggers that dismantled geocentrism. Johannes Kepler, deciphering the cosmic symphony, formulated his three laws of planetary motion, bridging celestial mechanics with mathematical precision.





quasars, while the Apollo missions brought humanity to the lunar frontier.

### The Space Age and the Cosmic Horizon

With the launch of the Hubble Space Telescope, the universe unfolded in unprecedented clarity. The exploration of exoplanets, the discovery of dark matter, and the pursuit of extraterrestrial life have propelled astronomy into uncharted domains. The James Webb Space Telescope now peers into the infancy of the cosmos, unravelling the very fabric of creation.



## NEWTON AND THE AGE OF GRAVITATION

Isaac Newton, the maestro of classical physics, unified the heavens and the Earth under the immutable laws of gravitation.



His *Principia Mathematica* wove together Kepler's laws and Galileo's observations, rendering celestial motion comprehensible through the universal language of mathematics. The cosmos was no longer an enigma—it was a clockwork marvel governed by fundamental forces.

## THE MODERN ERA: RELATIVITY AND BEYOND

The 20th century ushered in an era of cosmic revelation. Albert Einstein's theory of general relativity redefined space-time, predicting gravitational waves and black holes—phenomena confirmed a century later. Edwin Hubble's observations revealed an expanding universe, giving birth to the Big Bang theory. The mid-century advent of radio astronomy uncovered pulsars and

## EPILOGUE: THE INFINITE FRONTIER

The journey of astronomy is an unfinished symphony, a quest that transcends borders and generations. From Babylonian star charts to quantum cosmology, from Galileo's lens to interstellar probes, each epoch is a stepping stone in humanity's ceaseless voyage through the cosmos. As we stand on the precipice of new discoveries, gazing into the abyss of space-time, one truth remains immutable—the universe, in all its grandeur, is the ultimate enigma waiting to be unravelled.





# CAMPUS PRIME

## SKIT JAIPUR ACHIEVES 3.5-STAR RATING IN IIC 6.0 ANNUAL PERFORMANCE

SKIT Jaipur has been recognized for its outstanding contribution to innovation and entrepreneurship by securing a 3.5-star rating in the Institution's Innovation Council (IIC) 6.0 Annual Performance for the academic year 2023-24. Among 14,000 technical institutions across India, SKIT has excelled in promoting innovation and startups, as prescribed by the Ministry of Education's Innovation Cell (MIC) and AICTE.

This achievement was announced on National Startup Day during National Startup Week 2025, highlighting SKIT's dedication to fostering an entrepreneurial ecosystem on campus. The recognition reinforces SKIT's commitment to innovation-driven education and provides a platform for students to develop ground-breaking ideas. Team IIC at SKIT continues to inspire young minds towards technological advancement and startup culture.



## REPUBLIC DAY CELEBRATIONS AT SKIT JAIPUR

SKIT Jaipur celebrated Republic Day on 26th January 2025 with great patriotism and enthusiasm. The event began with the flag hoisting ceremony, graced by Shri Surja Ram Meel and Dr. S. L. Surana, Shri Anil Bafna, Shri Jaipal Meel, Ms. Rachna Meel, Prof. Ramesh Pachar, and Prof. R.K. Jain. Dr. S.L. Surana addressed the gathering with inspiring words on national values and responsibility. As a part of the celebrations, meritorious students were awarded for their outstanding achievements, encouraging them to continue striving for excellence. The event concluded with cultural performances and a pledge to uphold the values of

democracy and unity. The SKIT fraternity commemorated the day with pride and enthusiasm.



## SKIT JAIPUR HONoured WITH RISING EDUCATORS AWARD 2024

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur, has been recognized with the Rising Educators Award 2024 for Excellence in Technical Education and Skill Development. This prestigious award was presented by the Rajasthan Yuva Board on December 20, 2024, acknowledging SKIT's commitment to providing high-quality technical education and fostering skill development among students.

This achievement reflects the institute's dedication to academic excellence and innovative learning methodologies. SKIT continues to empower students with knowledge, skills, and industry-oriented training, reinforcing its position as a leading institution in technical education. The award motivates SKIT to further enhance its educational initiatives and contribute to the future of technical learning.





## SKIT JAIPUR RECEIVES IEI ENGINEERING EDUCATION EXCELLENCE AWARD 2024

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur, has been honoured with the prestigious IEI Engineering Education Excellence Award 2024 (Bronze) by The Institution of Engineers (India). This award recognizes SKIT's outstanding contributions to engineering education, research, and innovation. The award was presented during a grand ceremony, acknowledging SKIT's commitment to academic excellence and its role in shaping future engineers with industry-relevant skills. This achievement reinforces SKIT's dedication to providing quality technical education and fostering a culture of innovation. With this recognition, SKIT continues to set new benchmarks in engineering education and remains committed to excellence in learning and development.



## EXPERT TALK BY CA SANJAY JHANWAR

On December 14, 2024, Shri Sanjay Jhanwar, a senior advocate and chartered accountant, delivered an insightful talk on "Impact of AI on Life and Business." The event commenced with a warm welcome from the Chairman, Shri Surja Ram Meel, who expressed his gratitude for Shri Jhanwar's presence and highlighted the significance of expert interactions in enhancing the institution's academic capabilities. During his talk, Mr. Jhanwar discussed the potential scope of artificial intelligence across various fields. He emphasized that the future looks promising for average performers and noted the limited applications of AI in certain areas.



## SKIT CHESS TEAM TRIUMPHS AT RTU CHESS TOURNAMENT

The SKIT Chess team emerged victorious at the prestigious RTU Chess Tournament, held at Aravali Engineering College in Udaipur. With strategic brilliance and determination, the team clinched the top spot, marking a significant achievement in the competition. Their victory was celebrated by team members and supporters alike, as they were awarded the winner's trophy, showcasing their skill and teamwork.



## SKIT WINS THE SMART INDIA HACKATHON GRAND FINALE AT MIT PUNE

We are proud to announce that the SKIT team's Olympiad was jointly declared the national winner in the hardware category and won Rs. 50,000 in the Smart India Hackathon Grand Finale at MIT Pune in December 2024. Dr. Nilam Choudhary and Mr. Sudesh Garg led the team to the final round of the competition. It was the sheer hard work and dedication of the SKITians that paved the way for their success.



## SECOND RANK IN RAJASTHAN IN THE USAGE OF VIRTUAL LABS

Swami Keshvanand Institute of Technology, Management & Gramothan achieved the prestigious second rank in Rajasthan for the use of virtual labs in 2024. This recognition reflects our dedication and innovative approach to education. The institute has been an active user of virtual Labs for the last three years. SKIT received an appreciation certificate from the virtual labs team, IIT Delhi, for the outstanding achievement and the support in promoting virtual labs.

# ECA CELL ACTIVITIES

## ECA TEAM RECOGNIZES OUTSTANDING CLUBS FOR THEIR EFFORTS

The ECA team is pleased to acknowledge the exceptional efforts of our faculty coordinators and club members. Their enthusiasm and dedication have been truly remarkable, and to further motivate the clubs, the team has decided to award certificates to those demonstrating outstanding participation and achievements.

- Best Club of November: Yoga and Meditation Club
- Best Efforts and Outside Exposure: Robotics Club
- Best Performances and Audience Engagement: Dance Club.

Additionally, the Competitive Club organized a successful Hackathon, showcasing great effort and commitment. The SNT Club and Docudrama Club have consistently performed well, while the newly activated clubs have made impressive strides in their performances.



Yoga and Meditation Club received the best club award in November



Robotics Club received the award for best efforts and outside exposure club in November

## UNIVERSAL HUMAN VALUES & ETHICS COMMITTEE

### Event 1: One-Week Student Workshop on Universal Human Values and Ethics

The Universal Human Values (UHV) Committee of Swami Keshvanand Institute of Technology (SKIT), Jaipur, organized a one-week student workshop titled “Universal Human Values and Ethics” from November 15th to 19th, 2025. The workshop aimed to instill

ethical thinking, emotional awareness, and social responsibility among students through a series of insightful sessions, discussions, and reflective activities.

This week-long initiative was a transformative journey for many, planting the seeds of mindfulness, compassion, and integrity in young minds. The UHV Committee’s efforts successfully promoted the vision of value-based education and holistic development at SKIT.



Workshop on Universal Human Values and Ethics

### Event2: UHV&EC Celebrates The Constitution Day

To honor the adoption of the Constitution of India, the Universal Human Values (UHV) Committee of Swami Keshvanand Institute of Technology (SKIT), Jaipur, organized a special event on 26th November 2024 to celebrate Constitution Day (Samvidhan Diwas). The event was aimed at creating awareness among students about the core values enshrined in the Indian Constitution and to inspire them to become responsible and informed citizens.

The program began with an insightful address by Nikita Kasana, the student coordinator of the UHV Committee. She highlighted the relevance of constitutional values such as justice, liberty, equality, and fraternity in today’s fast-evolving society. Her perspective as a student leader added a relatable and thoughtful touch to the session, resonating strongly with her peers.

Eminent faculty members Dr. Amit Jhalani and Dr. Nidhi Sharma shared some lesser-known facts about the making of the Indian Constitution, including stories of the debates in the Constituent Assembly and the vision of Dr. B.R. Ambedkar. Their session sparked curiosity among students, offering them a deeper appreciation for the immense effort and foresight involved in shaping the world’s longest written constitution. Adding a visual dimension to the celebration, a short documentary film on the making of the Indian Constitution was screened, giving students a glimpse into the



The constitution day at SKIT



historical moments, the drafting process, and the challenges faced during the formation of this monumental document..

This Constitution Day celebration served as a meaningful platform to revisit the spirit of democracy, equality, and justice, and encouraged students to uphold these ideals in both their personal and professional lives.

### **Event3: Celebrating Linguistic Diversity: Bhartiya Bhasha Diwas at SKIT**

In celebration of the rich linguistic heritage of India, the Universal Human Values (UHV) Committee of Swami Keshvanand Institute of Technology (SKIT), Jaipur, organized a vibrant and culturally enriching event on 10th December 2024 to mark Bhartiya Bhasha Diwas. The event emphasized the importance of India's regional languages in preserving cultural identity and fostering unity in diversity. The event was graced by faculty members Prof. Sangeeta Vyas, Dr.Sharda Soni, Prof. Vinita Sharma, Dr. Pramila Kumawat, and Dr. Amit Jhalani, who appreciated the initiative and encouraged students to stay connected to their mother tongues while also embracing linguistic diversity. With the enthusiastic participation of around 60 students from various branches, the celebration created an engaging platform for cultural expression and mutual respect for all Indian languages. The program concluded with a collective reflection on how languages not only help in communication but also play a crucial role in shaping values, traditions, and worldviews. Bhartiya Bhasha Diwas at SKIT was a tribute to the linguistic mosaic that binds the nation together in unity and harmony.



**Bhasha Divas at SKIT**

### **Event 4: SKIT UHV Committee's Social Initiative: Social and Creative Activities at Arsh Vidyateerth Gurukul, Jaipur**

The Universal Human Values (UHV) Committee of Swami Keshvanand Institute of Technology (SKIT), Jaipur, recently organized a special social outreach program at Arsh Vidyateerth Gurukul, Jaipur. As part of this initiative, student coordinators from SKIT conducted a variety of social and creative activities for the students of the Gurukul on 31st January, 2025.

The program included several competitions and interactive sessions focusing on art, science, sports, and social service. The aim was to promote social values, creativity, and teamwork among the Gurukul students. Participants who excelled in their respective categories were honored with special trophies to acknowledge their talent and efforts. This initiative by the UHV Committee

turned out to be an educational and enriching experience for all. While the Gurukul students had the opportunity to explore new ideas and skills, SKIT students also developed a deeper understanding of community service and the impact of positive social engagement. The event served as a mutual learning and empowering platform for both groups.

Overall, this outreach program was a memorable and inspiring experience, reaffirming the power of collective action in nurturing values and building a better society. The event was attended by Prof. BL Sharma, Prof Sangeeta Vyas, Prof. Archana Saxena, Prof Krishna Dayal Sharma, Dr.Nidhi Sharma, Dr. Amit Jhalani, Dr. Swati Arora, Ms. Shalini Singhal, and Mr. Naveen Jain.



**Students of UHV at Arsh Vidyateerth Gurukul**

### **SKIT ROBOTICS CLUB SHINES AT NAVONMESH 2024 TECHFEST**

The SKIT Robotics Club achieved remarkable success at the Navonmesh 2024 Techfest held at Manipal University, bringing home several prestigious titles. In the RC Car Racing event, the team consisting of Saurabh Sharma, Tanmay Vyas, and Summit Dixit secured first place, while Bhoomika, Kanan Madan, Aryan Sharma, and Narendra Kumar earned second. The third spot was



claimed by Bhavishya Vaishnav, Pankaj Dhakad, Harshit Swami, and Bhupesh Jangid. In the Lathe War event, Pankaj Dhakad triumphed, securing first place. Additionally, the team of Avani Choudhary, Shantanu Gunani, and Suyash Vashishtha was named



runners-up in the Mesmerize competition. These outstanding achievements reflect the innovation and skill of SKIT Robotics Club members in the field of technology and robotics.



Navonmesh 2024

## SKIT TOASTMASTERS CLUB

### Event1: SKIT Toastmasters Shines at Area Level Contests

SKIT Toastmasters is proud to announce the remarkable achievement of four of its students who participated in the Area-level Humorous Speech and Evaluation Contests held at JECRC. All four contestants emerged victorious, with two securing the first position and the other two winning second place. This outstanding performance highlights the talent and dedication of SKIT Toastmasters, who continue to excel in public speaking and evaluation.



Winners of Area Level Contests

### Event2: SKIT Toastmasters Shine at State-Level Competitions

SKIT Toastmasters have once again proven their excellence at the state level, achieving remarkable success in two prestigious contests. TM Harshit claimed the First Prize in the Speech Evaluation Contest, where he demonstrated his exceptional ability to assess and provide constructive feedback with clarity and precision. Meanwhile, TM Shivansh secured the Second Prize in the Humorous Speech Contest, captivating the audience with his perfect blend of humor and storytelling. His ability to connect with listeners through wit and charm was on full display, earning him well-deserved recognition. These victories not only underscore the talent and dedication of SKIT Toastmasters but also reinforce the

club's commitment to excellence in communication and leadership. Heartiest congratulations to both TM Harshit and TM Shivansh for their remarkable achievements and for making SKIT proud at the state level.

## E-CELL & INCUBATION CELL

### Event1: THE CHIT QUEST COMPETITION BY E-CELL

The Chit Quest competition was held on November 20, 2024. This unique event was designed to test participants' problem-solving skills, creativity, and communication abilities. Participants drew a chit containing an object, and they then developed and presented innovative solutions to real-world problems associated with that object. The event provided a platform for participants to showcase their creative solutions.

Rishita Agrawal, who focused on solar panels, was the winner of the competition. Harshit Jetwani, with the topic of clothing, was the first runner-up, while Kanika Gupta, who addressed smartwatches, secured the position of second runner-up..



The Chit Quest competition held at SKIT

### Event2: EUREKA BY E-CELL

The "Eureka!" The Startup Pitching Competition, organized by E-Cell (TOPAZ) and the Incubation Cell at SKIT Jaipur, in collaboration with NEC IIT Bombay, was held in October 2024 to foster an entrepreneurial spirit and identify innovative startup ideas. Each team presented their business ideas, focusing on aspects such as innovation, scalability, and market potential. The judging panel, comprising industry experts, provided feedback and selected the most promising startups to advance to the zonal round of "Eureka!" at NEC IIT Bombay. The Jury Members were Mr. Ajay Dhanopia, Mr. Vineet Jain, Mr. Jitendra Kumar Meena, Mr. Yogendra Sharma, and the Faculty Coordinator, Dr. Monika Mathur.



EUREKA ACTIVITY BY E-CELL

# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

## TWO-WEEK ADVANCED FDP ON “EXPLORING ADVANCED AI AND DATA SCIENCE APPLICATIONS IN HEALTHCARE”

AICTE Training and Learning (ATAL) Academy Sponsored Two-Week Advanced Faculty Development Programme (FDP) on “Exploring Advanced AI and Data Science Applications in Healthcare” was successfully organized by Department of Computer Science & Engineering in the Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur from 15th January, 2025 to 28th January 2025. The programme's primary objective was to provide the state-of-the-art trends and advancements of AI & Data Science in Healthcare and its Applications to the faculty members of different organizations.



## PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

- TITLE** : Advancements and Applications of AI and ML Techniques in Breast Cancer Prognosis: A Comprehensive Survey
- AUTHOR/S** : Anurag Jagetiya & Pankaj Dadheech
- PROCEEDING** : In: Nanda, P., Srivastava, S., Verma, V.K., Vyas, P. (eds) Intelligent System and Data Analysis. SSIC-2023, Doctoral Symposium. Smart Innovation, Systems and Technologies, Vol 398, pp. 529-539, 2025.
- TITLE** : Intelligent Framework for Detection of Telecom Customer Churn Using Machine Learning Approach
- AUTHOR/S** : Neha Janu, Pankaj Dadheech, Krishna Kant, Sagar Kavaiya, Nilay Vaidya, Kanubhai K. Patel

- PROCEEDING** : In: Choudrie, J., Mahalle, P.N., Perumal, T., Joshi, A. (eds) ICT for Intelligent Systems. ICTIS 2024. Lecture Notes in Networks and Systems, Vol. 1109, pp. 493-502.
- TITLE** : Virtual Reality in Tourism Industry within the Framework of Virtual Reality Markup Language
- AUTHOR/S** : Basetty Mallikarjuna, Shiju Sebastian, Ramesh Chandra, Pankaj Dadheech, Madhvi Sharma
- PROCEEDING** : 2024 IEEE 3rd World Conference on Applied Intelligence and Computing (AIC), Gwalior, India, 2024, pp. 274-279

## FDPs ATTENDED

- TITLE** : Deep Learning for Vision and Language
- DATE** : 09/12/24 to 14/12/24
- ATTENDED BY** : Pankaj Dadheech
- ORGANIZED BY** : AICTE Training And Learning (ATAL) Academy Faculty Development Program on “Deep Learning for Vision and Language” at The LNM Institute of Information Technology, Jaipur (Deemed To Be University).
- TITLE** : Mastering AI Tools for Faculty Excellence
- DATE** : 23/12/24 to 27/12/24
- ATTENDED BY** : Pankaj Dadheech
- ORGANIZED BY** : Department of CSE-Artificial Intelligence & Department of CSE- Artificial Intelligence and Machine Learning, Vishwakarma Institute of Information Technology, Pune in association with IEEE Computer Society Pune Chapter.

- TITLE** : Usage of Artificial Intelligence in Software Engineering
- DATE** : 06/01/25 to 10/01/25
- ATTENDED BY** : Pankaj Dadheech
- ORGANIZED BY** : Department of Information Technology, Arya College of Engineering & IT, Jaipur.

## SESSION CHAIRED

- SESSION ON** : Chaired Technical Session entitled “Intelligent System & Applications”
- CHAired BY** : Pankaj Dadheech
- DATE & VENUE** : February, 2025, “International Conference on Intelligent Computing and Networking (IC-ICN-2025) conference in MULTICON-W 2025, Thakur College of Engineering & Technology, Kandivali, Mumbai.



SESSION ON : Chaired Technical Session entitled “Cognitive Systems and Applications”  
CHAIRED BY : Pankaj Dadheech  
DATE & VENUE : December 10-12, 2024, 6th International Convention on Soft Computing and its Engineering Applications (icSoftComp2024) organized by Charotar University of Science and Technology (CHARUSAT), Changa, India held at Bangkok, Thailand.

SESSION ON : Chaired Technical Session entitled “Advanced Innovation Augmented with Intelligent Analytics”  
CHAIRED BY : Pankaj Dadheech  
DATE & VENUE : 13th September, 2024, “4th International Convention on Green Environment, Technology & Entrepreneurship through Innovation (ICGETEI-2024)”, Organized by Esteemed Organization “Amity University Rajasthan, Jaipur”.

## EXPERT TALK DELIVERED

TITLE : Navigating the Deep and Dark Web: Myths vs. Reality  
DATE & VENUE : 19th Oct, 2024, International Workshop on “Dark Web Workshop” facilitated by World Resources Webinar, World Economic Forum.  
DELIVERED BY : Pankaj Dadheech



## DEPARTMENT OF INFORMATION TECHNOLOGY

### FDPs ATTENDED

TITLE : RDBMS PostgreSQL  
DATE : 15/1/2025 to 20/1/2025  
ATTENDED BY : Ms. Nikhar Bhatnagar, Ms Shalini Singhal, Ms. Anjali Pandey, Mr. Naveen Jain  
ORGANIZED BY : Spoken Tutorial, IIT Bombay

TITLE : Overleaf Tools  
DATE : 09/01/2025 to 11/01/2025  
ATTENDED BY : Ms. Nikhar Bhatnagar, Ms. Shalini Singhal, Mr. Naveen Jain  
ORGANIZED BY : Compucom Institute of Technology & Management, Jaipur

TITLE : Data Science using Python  
DATE : 25/11/2025 to 29/11/2025  
ATTENDED BY : Dr. Priyanka Yadav, Ms. Nikhar Bhatnagar, Dr. Sunita Gupta, Ms. Shalini Singhal, Ms. Sanju Choudhary, Shikha Srivastava, Ms. Manju Choudhary  
ORGANIZED BY : NITTTR, Chandigarh

TITLE : Deep Learning for Vision and Language  
DATE : 09/12/2024 to 14/12/2024  
ATTENDED BY : Dr. Priyanka Yadav, Ms. Sanju Choudhary, Dr. S.R. Dogiwal  
ORGANIZED BY : LNM Institute of Information Technology, Jaipur

TITLE : “Exploring Advanced Data Science Tools, Techniques and Trends”  
DATE : 09/12/2024 to 14/12/2024  
ATTENDED BY : Dr. Sunita Gupta  
ORGANIZED BY : AICTE Training and Learning (ATAL)

TITLE : “Block chain Governance Structures & Trust: From Theory to Practice”  
DATE : 23/12/2024 to 28/12/2024  
ATTENDED BY : Ms. Ritu Shukla  
ORGANIZED BY : Birla Institute of Technology, AICTE Training and Learning (ATAL)

TITLE : “Design Thinking for Healthcare Innovation”  
DATE : 17/02/2025 to 22/02/2025  
ATTENDED BY : Ms. Ritu Shukla  
ORGANIZED BY : Global Institute of Technology, AICTE Training and Learning (ATAL)



TITLE : "Cyber Security & Intrusion Detection Forensics"  
 DATE : 20/01/2025 to 25/01/2025  
 ATTENDED BY : Ms.Ritu Shukla  
 ORGANIZED BY : Don Bosco Institute of Technology, AICTE Training and Learning (ATAL)

TITLE : Artificial Intelligence and Optimization Techniques using MATLAB  
 DATE : 7/10/2024 to 11/10/2024  
 ATTENDED BY : Ms. Sanju Choudhary, Mr. Naveen Jain, Ms. Shalini Singhal  
 ORGANIZED BY : Department of Electrical Engineering, SKIT, Jaipur (NITTR Chandigarh)

TITLE : Latest Tools & Trends in Artificial Intelligence  
 DATE : 11/11/2024 to 16/11/2024  
 ATTENDED BY : Ms. Sanju Choudhary  
 ORGANIZED BY : Department of Computer Science and Engineering, VGU, Jaipur.

TITLE : Data Science (ML&AI)  
 DATE : 27/01/2025 to 01/02/2025  
 ATTENDED BY : Mr. Naveen Jain  
 ORGANIZED BY : E & ICT Academy IIT Kanpur

TITLE : Electrical & Computer Engineering  
 DATE : 4.01.2025 to 8.01.2025  
 ATTENDED BY : Naveen Jain  
 ORGANIZED BY : ATAL FDP

TITLE : Data Analytics for Decision Making: Tool, Technique, And Application  
 DATE : 3.02.2025 to 8.02.2025  
 ATTENDED BY : Naveen Jain  
 ORGANIZED BY : ATAL FDP

TITLE : Smart cities emerging solution and sustainability  
 DATE : 27.01.2025 to 31.01.2025  
 ATTENDED BY : Naveen Jain  
 ORGANIZED BY : SKIT, Jaipur

TITLE : Finance planning and investment strategy  
 DATE : 17.12.2024 to 21.12.2024  
 ATTENDED BY : Naveen Jain  
 ORGANIZED BY : SKIT, Jaipu

## PAPERS PRESENTED/PUBLISHED IN CONFERENCES

TITLE : Neural Network to detect Cervical Cancer early using Pap smear Images  
 AUTHOR/S : Dr. Mithlesh Arya; Mr. Praveen Kumar Yadav; Ms. Abha Jain; Dr. Megha Gupta; Dr. Saroj Agarwal; Arvind Singh Rajpoot  
 CONFERENCE : 7th International Conference on Contemporary Computing and Informatics (IC3I)

## DEPARTMENT OF MECHANICAL ENGINEERING

### BOOK CHAPTERS PUBLISHED

BOOK : Futuristic Trends in Mechanical Engineering  
 AUTHOR/S : Raj Kumar  
 BOOK CHAPTER : The Significance of Entropy and the Second Law of Thermodynamics: A Discussion, Vol. 3; pp. 1-10, 2024  
 PUBLISHER : IIIP Series.

### PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

शीर्षक : सौर-फोटो वोल्टिक तकनीक में नवाचार: हरित भविष्य के लिए दक्षता, स्थिरता एवं एकीकरण में सुधार  
 लेखक : सुदेश गर्ग, मधुकर कुमार, चंद्र मोहन, अमित बंसल  
 संगोष्ठी कार्यवाही : अभ्यासित प्रायोजित नवीकरणीय ऊर्जा एकीकरण और जलवायु सुधार के लिए संधारणीय विकास में नवाचार, मैकेनिकल विभाग, एसकेआईटी जयपुर द्वारा आयोजित, पृष्ठ संख्या 33-38, अक्टूबर 2024

शीर्षक : संधारणीय विनिर्माण उद्योग में आभासी वास्तविकता ( वीआर ) और इंटरनेट ऑफ थिंग्स ( आईआईओटी ) के माध्यम से आमूल परिवर्तन  
 लेखक : सुदेश गर्ग, प्रेम सिंह, मधुकर कुमार, चंद्र मोहन कुमार  
 संगोष्ठी कार्यवाही : अभ्यासित प्रायोजित नवीकरणीय ऊर्जा एकीकरण और जलवायु सुधार के लिए संधारणीय विकास में नवाचार, मैकेनिकल विभाग, एसकेआईटी जयपुर द्वारा आयोजित, पृष्ठ संख्या 39-44, अक्टूबर 2024

शीर्षक : ऊर्जा भण्डारण उपकरणों की समीक्षा  
 लेखक : अमित कुमार बंसल, सुदेश गर्ग, प्रेम सिंह, मधुकर कुमार, चंद्र मोहन कुमार  
 संगोष्ठी कार्यवाही : अभ्यासित प्रायोजित नवीकरणीय ऊर्जा एकीकरण और जलवायु सुधार के लिए संधारणीय विकास में नवाचार, मैकेनिकल विभाग, एसकेआईटी जयपुर द्वारा आयोजित, पृष्ठ संख्या 49-51, अक्टूबर 2024

शीर्षक : भारतीय स्मार्ट शहरों में ऊर्जा प्रबंधन: चुनौतियां एवं अवसर  
 लेखक : चंद्र मोहन कुमार, अमित कुमार बंसल, सुदेश गर्ग, मधुकर कुमार  
 संगोष्ठी कार्यवाही : अभ्यासित प्रायोजित नवीकरणीय ऊर्जा एकीकरण और जलवायु सुधार के लिए संधारणीय विकास में नवाचार मैकेनिकल विभाग, एसकेआईटी जयपुर द्वारा आयोजित, पृष्ठ संख्या 61-66, अक्टूबर 2024

शीर्षक : संभावनाओं का दोहन: ऊर्जा संरक्षण एवं स्थिरता के लिए बायोमास एकीकरण  
 लेखक : मधुकर कुमार, चंद्र मोहन कुमार, सुदेश गर्ग, अमित बंसल

संगोष्ठी कार्यवाही : अभातशिप प्रायोजित नवीकरणीय ऊर्जा एकीकरण और जलवायु सुधार के लिए संधारणीय विकास में नवाचार, मेकैनिकल विभाग, एसकेआईटी जयपुर द्वारा आयोजित, पृष्ठ संख्या 181-187, अक्टूबर 202

ATTENDED BY : Vikash Gautam, Deepak Kumar, Sanjay Bairwa, Achin Srivastav, Vinay Singh Marwal, Raj Kumar  
ORGANIZED BY : SRMIST, Chennai

शीर्षक : धातु मैट्रिक्स काम्पोजिट में घनत्व और रिक्तिओं का विश्लेषण:  
एल्युमिनियम 5083 में तांबा और निकल कणों  
लेखक : संजय बैरवा, मोनू गुप्ता, निखिल शर्मा, नमिता सोनी  
संगोष्ठी कार्यवाही : अभातशिप प्रायोजित नवीकरणीय ऊर्जा एकीकरण और जलवायु सुधार के लिए संधारणीय विकास में नवाचार, मेकैनिकल विभाग, एसकेआईटी जयपुर द्वारा आयोजित, पृष्ठ संख्या 83-90, अक्टूबर 2024

TITLE : Additive Manufacturing Advancements in Different Applications.  
DATE : 21 to 26 Oct 2024.  
ATTENDED BY : Deepak Kumar, Vikash Gautam, Sanjay Bairwa, Brij Mohan Sharma, Prem Singh, Achin Srivastav  
ORGANIZED BY : SRM Institute of Science & Technology, Tamil Nadu, India.

शीर्षक : तांबा और निकल कणों से सुदृढ़ एल्युमिनियम 5083 धातु मैट्रिक्स यौगिकों के यांत्रिक गुणों की जांच: फ्लेक्सुरल और तन्यता व्यवहार का अध्ययन  
लेखक : संजय बैरवा, निखिल शर्मा, सुमिता हेमरोम, सौरभ गुप्ता  
संगोष्ठी कार्यवाही : अभातशिप प्रायोजित नवीकरणीय ऊर्जा एकीकरण और जलवायु सुधार के लिए संधारणीय विकास में नवाचार, मेकैनिकल विभाग, एसकेआईटी जयपुर द्वारा आयोजित, पृष्ठ संख्या 95-102, अक्टूबर 2024

TITLE : Cyber Security: Advanced Concepts and Practices.  
DATE : 21 to 25 Oct 2024.  
ATTENDED BY : Nitin Goyal  
ORGANIZED BY : AISSMS Institute of Information Technology.

शीर्षक : एल्युमिनियम 6061 और 5083 मिश्र धातुओं में कणीय सुदृढ़ीकरण के प्रभाव का यांत्रिक गुणों पर तुलनात्मक  
लेखक : संजय बैरवा, मोनू गुप्ता, योगेश शर्मा  
संगोष्ठी कार्यवाही : अभातशिप प्रायोजित नवीकरणीय ऊर्जा एकीकरण और जलवायु सुधार के लिए संधारणीय विकास में नवाचार, मेकैनिकल विभाग, एसकेआईटी जयपुर द्वारा आयोजित, पृष्ठ संख्या 126-134, अक्टूबर 2024

TITLE : Data Science and Machine Learning Applications for Engineering and Sciences.  
DATE : 21 to 27 Oct 2024.  
ATTENDED BY : Brij Mohan Sharma  
ORGANIZED BY : Shri Vishnu Engineering College of Women (Autonomous), Bhimavaram,

शीर्षक : हेयर सैलून की एगोनोमिक्स और पर्यावरणीय स्थिरता का मूल्यांकन  
लेखक : योगेश कुमार शर्मा, विष्णु जांगिड़, संजय बैरवा और सौरभ गुप्ता  
संगोष्ठी कार्यवाही : अभातशिप प्रायोजित नवीकरणीय ऊर्जा एकीकरण और जलवायु सुधार के लिए संधारणीय विकास में नवाचार, मेकैनिकल विभाग, एसकेआईटी जयपुर द्वारा आयोजित, पृष्ठ संख्या 207-214, अक्टूबर 202

TITLE : Six-Day Online International Faculty Development Program on Progress.  
DATE : 14 to 19 Oct, 2024  
ATTENDED BY : Sudesh Garg  
ORGANIZED BY : SRM Institute of Science and Technology.  
  
TITLE : Recent Advancement in AI & IOT- Industry Perspective  
DATE : 25 to 30 November, 2024  
ATTENDED BY : Sanjay Bairwa  
ORGANIZED BY : Periyar Maniammai Institute of Science & Technology

## PAPERS PRESENTED IN CONFERENCES

TITLE : Study of Corrosion and Wear Behavior of Composite Material for Wear Resistance Applications  
AUTHOR/S : Chandan Kumar  
CONFERENCE : 3rd International Conference on Recent Advances in Engineering (ICRAE 2024). Poornima College of Engineering, Jaipur, 20-21 December 2024.

TITLE : Artificial Intelligence Edge with Soft Computing.  
DATE : 9 to 14 December 2024  
ATTENDED BY : Deepak Kumar  
ORGANIZED BY : ATAL-AICTE

## FDP'S ATTENDED

TITLE : Progress in Mechanical Engineering.  
DATE : 14 to 19 Oct 2024.

TITLE : Exploring the Research in Mechanical Engineering for Sustainable Growth  
DATE : 16 to 20 December 2024  
ATTENDED BY : Brij Mohan Sharma  
ORGANIZED BY : K.L.N. College of Engineering, Pottapalayam, TN

TITLE : Outcome-based Education and Accreditation Process.  
DATE : 25 to 29 November, 2024  
ATTENDED BY : Achin Srivastav  
ORGANIZED BY : Curriculum Development Centre Department, NITTTT Chandigarh

TITLE : Financial Planning & Investment Strategies.  
 DATE : 17 to 21 December 2024  
 ATTENDED BY : Achin Srivastav, Deepak Kumar, Raj Kumar, Chandan Kumar  
 ORGANIZED BY : DMS, SKIT in association with Wealth Pyramid Private Ltd

TITLE : Sustainable Manufacturing Practices and Environmental Impact Optimization Techniques  
 DATE : 9 to 14 December 2024  
 ATTENDED BY : Vikash Gautam  
 ORGANIZED BY : Dayanand Sagar College of Engineering.

TITLE : Sustainable Materials for Future Technology.  
 DATE : 16 to 21 December, 2024  
 ATTENDED BY : Vikash Gautam  
 ORGANIZED BY : Chandigarh College of Engineering

TITLE : Robotics and Industrial Automation.  
 DATE : 04 to 09 November, 2024  
 ATTENDED BY : Raj Kumar  
 ORGANIZED BY : CBIT at Hyderabad

TITLE : Data Science using Python.  
 DATE : 25 to 29 November, 2024  
 ATTENDED BY : Raj Kumar  
 ORGANIZED BY : NITTTR Chandigarh

TITLE : Open Source Applications in Engineering Education.  
 DATE : 18 to 22 November, 2024  
 ATTENDED BY : Raj Kumar  
 ORGANIZED BY : NITTTR Chandigarh

TITLE : 21 Days Masterclass on Jetson AI.  
 DATE : 22 Nov to 12 December, 2024  
 ATTENDED BY : Sanjay Bairwa  
 ORGANIZED BY : Pantech e Learning.

TITLE : Recent Advancements in Solar Photovoltaic Technology & Research Opportunities  
 DATE : 13 to 18 Jan, 2025  
 ATTENDED BY : Sumita  
 ORGANIZED BY : AICTE - ATAL  
 TITLE : AI and Digital Tools in Education.  
 DATE : 20 to 25 Jan, 2025  
 ATTENDED BY : Sumita  
 ORGANIZED BY : AICTE - ATAL

TITLE : Recent Development in Nano-electronics Devices: Challenges and Opportunities.  
 DATE : 16 to 21 December 2024  
 ATTENDED BY : Chandan Kumar  
 ORGANIZED BY : Swami Keshvanand Institute of Technology, Management Gramothan, Jaipur

## CONFERENCE ORGANIZED

आईसीटीई - वाणी द्वारा प्रायोजित नवीकरणीय ऊर्जा, एकीकरण और जलवायु सुधार के लिए संधारणीय विकास में नवाचार हेतु राष्ट्रीय संगोष्ठी ( IRIS-2024 )

स्वामी केशवानंद इंस्टिट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोथान ( SKIT ), जयपुर में राष्ट्रीय संगोष्ठी ( IRIS-2024, 24-26 अक्टूबर, 2024 ) का आयोजन किया गया, जिससे AICTE & VAANI द्वारा प्रायोजित किया गया था। इस संगोष्ठी का मुख्य उद्देश्य नवीकरणीय ऊर्जा एकीकरण और जलवायु सुधार में नवीन विकास को बढ़ावा देना था।

संगोष्ठी में संधारणीय विकास, स्वच्छ ऊर्जा, जलवायु परिवर्तन, कार्बन कैप्चर, ऊर्जा भंडारण और सरकारी पहलों जैसे महत्वपूर्ण विषयों पर चर्चा की गई। विभिन्न विशेषज्ञों ने अपने विचार प्रस्तुत किए, जिसमें से डॉ. राजेंद्र सिंह ( वाटर मैन ऑफ इंडिया ) ने जल संरक्षण और पारंपरिक जल प्रबंधन पर जोर दिया, जबकि श्री रिपुदमन मगोन ने जलवायु परिवर्तन और हरित ऊर्जा के महत्व पर प्रकाश डाला। डॉ. अनिल कुमार ( दिल्ली तकनीकी विश्वविद्यालय ) ने कार्बन उत्सर्जन और नवीकरणीय ऊर्जा की भूमिका पर चर्चा की, और प्रो. डी.के. जैन ने सतत विकास व नवाचार को लेकर अपने विचार साझा किए। सम्मेलन के दौरान कई तकनीकी सत्रों में शोधपत्र प्रस्तुत किए गए। इसके अतिरिक्त, प्रतिभागियों को जयपुर के हिंगोनिया गौशाला बायोगैस संयंत्र का दौरा कराया गया। कार्यक्रम के अंत में प्रतिभागियों को प्रमाण पत्र वितरित किए गए।

कुल मिलाकर, IRIS-2024 संगोष्ठी ने नवीकरणीय ऊर्जा और जलवायु सुधार के क्षेत्र में नवीन विचारों को बढ़ावा दिया और शोधकर्ताओं, शिक्षाविदों और नीति निर्माताओं को एक मंच प्रदान किया। कार्यक्रम के समन्वयक प्रोफेसर आशीष नैय्यर, यांत्रिकी विभाग, सह-समन्वयक डॉ. सविता चौधरी, प्रबंधन विभाग और आयोजक श्री दिनेश कु. शर्मा, असिस्टेंट प्रोफेसर, यांत्रिकी विभाग डॉ. चंदन कुमार, एसोसिएट प्रोफेसर, यांत्रिकी विभाग, श्री अंकित अग्रवाल, एसोसिएट प्रोफेसर, यांत्रिकी विभाग डॉ. मनीषा कौशिक, एसोसिएट प्रोफेसर, प्रबंधन विभाग थे।



Glimpses of the Conference



# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## FACULTY ACHIEVEMENTS/AWARDS

TITLE : Grant of Rs 3,50,000 FDP on "Navigating Recent Trends and Challenges in Semiconductor Devices"

NAME : Dr. Praveen Kr. Jain

ORGANISATION : AICTE- ATAL

DURATION : 16/12/2024 - 22/12/2024.

## LECTURE SERIES ON "RECENT TRENDS IN ELECTRONICS AND COMMUNICATION ENGINEERING"

A One Week Lecture Series was organized on "Recent Trends in Electronics and Communication Engineering" from 18th- 22nd November, 2024, in association with IEEE- MTTs Student Chapter under the event coordinators Dr. Kiran Rath, Dr. Suman Sharma, Dr. Shubhi Jain, and Dr. Vikas Pathak. The event commenced with a session on Recent Trends in VLSI Design, delivered by Prof. Vineet Sahula. The talk highlighted the advancements in integrated circuit technology, focusing on innovative design techniques and challenges in scaling. Participants gained insights into the importance of VLSI in modern electronics and its applications in industries like automation and communication. The session set the tone for a technically enriching. The 5-day event successfully achieved its objective of fostering knowledge exchange and skill development across diverse technological domains. Each session, led by distinguished speakers, provided participants with in-depth insights into cutting-edge topics such as VLSI design, signal processing, IoT, antennas, and space technologies. The interactive format of the event encouraged active participation and engagement, creating a collaborative environment for learning and innovation. Attendees left with a deeper understanding of these rapidly evolving fields and their real-world applications.



The event not only expanded the technical knowledge of participants but also inspired them to explore interdisciplinary approaches to problem-solving. By addressing current challenges and future trends, the sessions equipped attendees with tools to

## FDPs ATTENDED

TITLE : ATAL FDP on Navigating Recent Trends and Challenges in Semiconductor Devices

DATE : 16 to 21 December, 2024

ATTENDED BY : Mr. Abhinandan Jain, Mr. Harshal Nigam, Dr. JP Vijay, Dr. Kiran Rath, Ms Mamta Jain, Dr. Monika Mathur, Dr. Pallav Rawal, Ms. Priyanka Sharma, Mr. Rahul Pandey, Ms. Rajni Idiwa, Dr. Shubhi Jain, Dr. Suman Sharma, Dr Vikas Pathak, Mr. Harshal Nigam

ORGANIZED BY : SKIT

TITLE : Robotics and Industrial Automation

DATE : 4 to 11 November 2024

ATTENDEDBY : Gloria Joseph

ORGANIZED BY : Chaitanya Bharathi Institute of Technology (A), Hyderabad

TITLE : Advanced and Sustainable Engineering Technology

DATE : 6 to 10 January 2025

ATTENDED BY : Gloria Joseph

ORGANIZED BY : O.P. Jindal University Raigarh

## EXPERT LECTURE ORGANIZED

TOPIC : Semiconductor IC Fabrication

SPEAKER : Mr. Nikhil Saini of Zepto Microwave

DATES : 7 November 2024

TOPIC : Expert Talk and Poster presentation competition

SPEAKER : Mr. Rajesh Kr.Panwar, ITS, IES 1992, and Retired PGM of BSNL (Rajasthan Telecom Circle)

DATES : 19 October 2024

innovate in their respective domains. The success of the event highlights the importance of such platforms in research, fostering collaboration, and paving the way for future advancements. The final day concluded with an expert session by Prof. Suresh Raju C. Pillai on Microwave Probing Techniques for Geophysical Parameters and Payload Space Qualifications. The talk bridged the fields of geophysics and space technology, showcasing advanced microwave probing techniques. Prof. Pillai emphasized their applications in environmental monitoring and space exploration. The session provided a fitting end to a week of diverse and thought-provoking discussions.



Glimpses of the Lecture Series

## ATAL FDP ON NAVIGATING RECENT TRENDS AND CHALLENGES IN SEMICONDUCTOR DEVICES AND CHALLENGES IN SEMICONDUCTOR DEVICES

AICTE Training and Learning (ATAL) Academy sponsored Faculty Development Programme on 'Navigating Recent Trends and Challenges in Semiconductor Devices' was conducted from 6 to 21 December 2024 under the coordination of Dr. Praveen Kr. Jain and Dr. Neeraj Jain. The ATAL Faculty Development Programme empowered engineering faculty specializing in semiconductor material science. It fostered a deeper understanding of the critical connections between engineering principles, cutting-edge semiconductor technology, and the science of materials. Through a blend of hands-on training and theoretical knowledge, the program equipped participants with specialized expertise and practical skills for innovation. This included advancements in

semiconductor material design, fabrication, and application. Ultimately, faculty will be able to seamlessly integrate contemporary industry knowledge into their curriculum, preparing the next generation of highly qualified professionals for this critical sector. The Sessions and pedagogy had a duration of six days (Monday to Saturday), along with 25 hours of teaching in ten equal sessions. The 5 hours of practical/labs/ experiential learning sessions were conducted for one hour each, 4 hours of article discussion of one hour each, 3 hours each for MCQs, reflective journal, and feedback, and 4 hours for an Industrial visit. The eminent speakers of the FDP were Dr. Sudeb Dasgupta Professor, Indian Institute of Technology, Roorkee (Research Field included Ultra Low Power, Adiabatic Logic for Portable Applications, Low Power Application, Sub threshold Logic Design, , Radiation Effects on ICs, Design and Development of 6T FinFET Based Rad Hard SRAM Cell), Dr. Praveen Kumar Associate Professor, Indian Association for the Cultivation of Science, Kolkata (Research field: Materials Science, Nano science and Technology, Energy Harvesting Devices and Next-generation Sensors, Dr. Menka Yadav Assistant Professor, Malviya National Institute of Technology Jaipur (Research Field: Digital and Analog CMOS circuits, Machine learning approaches & applications to VLSI Design, Modelling And Simulation, EDA for VLSI/Embedded-Systems, Device Characterization and MEMS), Dr. Anurag Gaur Associate Professor, Netaji Subhas University Of Technology (NSUT), New Delhi (Research Field: Energy Conversion and Storage Devices, Functional Nanomaterial), Dr. Shashi Kant Sharma Assistant Professor, Indian Institute of Information Technology, Ranchi (Research Field: Modeling and Simulation of Semiconductor Devices. Fabrication and Characterization of Thin Film Devices, LP-VLSI Design) along with other experts.



Glimpses of the ATAL FDP



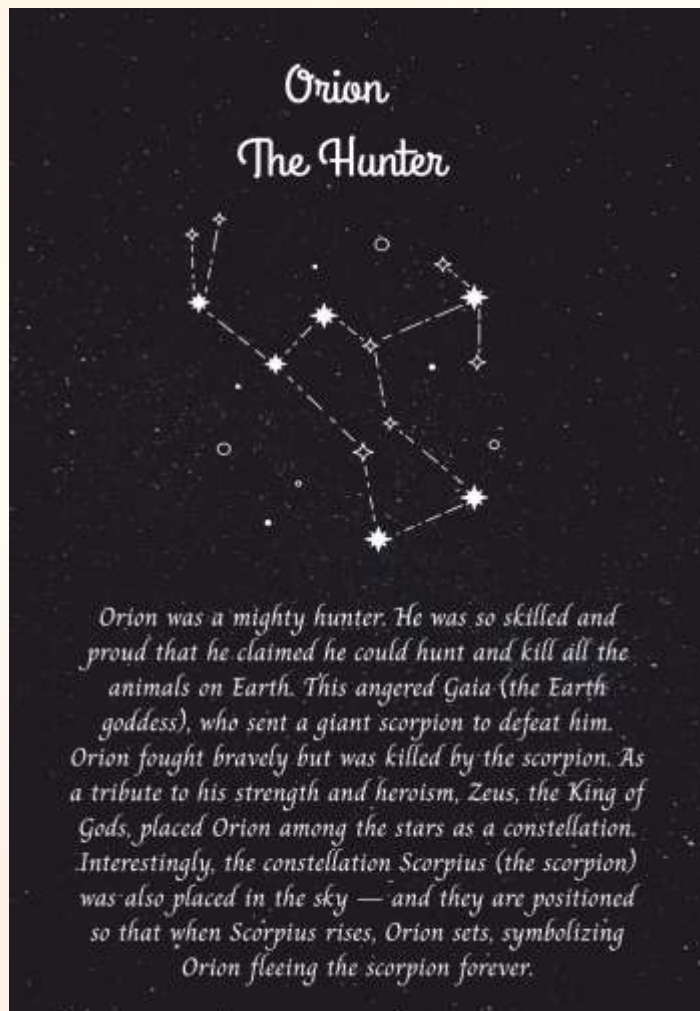
## DEPARTMENT OF ELECTRICAL ENGINEERING

### (FDP) ATTENDED

TITLE : Methodologies of Renewable Energy Systems  
Research and Implementation Analysis  
DATE : 20 to 24 January, 2025  
ATTENDED BY : Vivek Sharma  
ORGANIZED BY : J.P. College of Engineering, Chennai.

### NPTEL COURSE COMPLETED

COURSE/ TOPIC : Technical English for Engineers  
COMPLETED BY : Virendra Swaroop Sangtani  
DURATION & CATEGORY : August to October 2024 (8 weeks).  
Awarded Elite + Silver Certificate



## DEPARTMENT OF CIVIL ENGINEERING

### BOOK CHAPTERS PUBLISHED

BOOK : Recent Research Trends in Computer Science and Mathematics  
AUTHOR/S : Pooja Gupta  
BOOK CHAPTER : Advanced Tools in Geotechnical Engineering: Mathematical Perspectives, pp-14-24, 2025  
PUBLISHER : Cosmic Book Publishers Pvt. Ltd.

BOOK : Recent Development in Structural Engineering: Select Proceedings of 13th Structural Engineering Convention  
AUTHOR/S : Sunita Tolani  
BOOK CHAPTER : Progressive Collapse Analysis of Reinforced Concrete Buildings, pp-67-74, 2024  
PUBLISHER : Springer Nature Singapore

BOOK : Recent Development in Structural Engineering: Select Proceedings of 13th Structural Engineering Convention  
AUTHOR/S : Sunita Tolani  
BOOK CHAPTER : Seismic Performance Evaluation of Base Isolated Building Frame with LRB under the Action of Main shock and Aftershock, pp. 101-109, 2024  
PUBLISHER : Springer Nature Singapore

### PAPERS PRESENTED IN CONFERENCES

TITLE : Experimental investigation on the effect of cement type on the usage of ceramic waste as fine aggregate in mortars  
AUTHOR/S : Abhishek Jain  
CONFERENCE : 5th International Conference on Trends and Recent Advances in Civil Engineering (TRACE-2024), Amity University, Uttar Pradesh, India, 15 to 16 October 2024

TITLE : Analytical Study on the Behaviour of Structural Elements in Adjacent Buildings in Case of Seismic Pounding  
AUTHOR/S : Ankur Mishra  
CONFERENCE : 7th International Conference on Energy Systems, Drives and Automation, Dumka

	Engineering College, Dumka, Jharkhand, India, 14 to 15 December 2024	DATE	: 03-09 December 2024
		ATTENDED BY	: Jetender Babulal Jangid
		ORGANIZED BY	: Navarasam Arts and Science College for Women (ATAL Online)
TITLE	: Sustainable Concrete Mixtures: Analyzing the Impact of Glass and Granite Fines on Microstructure and Mechanical Properties	TITLE	: Sustainable Engineering Practices: Integrating Energy Efficiency and Climate Change Resilience
AUTHOR/S	: Kishal Lal Jain	DATE	: 16-21 December 2024
CONFERENCE	: 14th Structural Engineering Convention (SEC-2024), NIT Trichy, Tamil Nadu, India, 12 to 14 December 2024	ATTENDED BY	: Jetender Babulal Jangid
		ORGANIZED BY	: TTAADC Polytechnic Institute (ATAL Online)
TITLE	: Effect of Different Types of Bracing Systems on the Seismic Response of RC Building	TITLE	: Application of AI in Civil Engineering
AUTHOR/S	: Sunita Tolani	DATE	: 16-21 December 2024
CONFERENCE	: 14th Structural Engineering Convention (SEC-2024), NIT Trichy, Tamil Nadu, India, 12 to 14 December 2024	ATTENDED BY	: Gaurav Gupta, Nishant Sachdeva, Pooja Jain
		ORGANIZED BY	: K.D.K. College of Engineering, Nagpur
TITLE	: Progressive Collapse Analysis of RC Building	TITLE	: Urban Development of Smart Cities and Mobility
AUTHOR/S	: Sunita Tolani	DATE	: 30 December 2024-04 January 2025
CONFERENCE	: 14th Structural Engineering Convention (SEC-2024), NIT Trichy, Tamil Nadu, India, 12 to 14 December 202	ATTENDED BY	: Jetender Babulal Jangid
		ORGANIZED BY	: Shri Balasaheb Mane Shikshan Prasarak Mandals Ashokrao Mane Group of Institutions Vathar (ATAL Online)

## FDPs ATTENDED

TITLE	: Accreditation and Outcome-Based Learning	TITLE	: Green Energy Solutions: Building a Sustainable, Carbon-Neutral World
DATE	: August to October, 2024	DATE	: 13-18 January, 2025
ATTENDED BY	: Kishan Lal Jain, Nandini Moondra	ATTENDED BY	: Jetender Babulal Jangid
ORGANIZED BY	: NPTEL	ORGANIZED BY	: College of Engineering Muttathara (ATAL Online)
TITLE	: Advanced Geomatics Engineering	TITLE	: Defect Free Construction Repair and Maintenance
DATE	: July to October, 2024	DATE	: 16-20 January, 2025
ATTENDED BY	: Abhishek Jain	ATTENDED BY	: Bharathi M.
ORGANIZED BY	: NPTEL	ORGANIZED BY	: NITTTR, Chandigarh
TITLE	: Innovation in Sustainable Development for Renewable Energy Integration and Climate Change	TITLE	: AI-Powered Urban Futures: Advancing Sustainability in Smart Cities
DATE	: 24-26 October, 2024	DATE	: 06-11 January, 2025
ATTENDED BY	: Sitaram Saini, Nandini Moondra, Kishan Lal Jain	ATTENDED BY	: Jetender Babulal Jangid
ORGANIZED BY	: Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur	ORGANIZED BY	: Jodhpur Institute of Engineering and Technology (ATAL Online)
TITLE	: Air Pollutants: Implications, Monitoring and Modelling	TITLE	: Indian Health, Wellness & Psychology (including Ayurveda)
DATE	: 18-22 November, 2024	DATE	: 20-25 January, 2025
ATTENDED BY	: Sitaram Saini, Nandini Moondra, Kishan Lal Jain	ATTENDED BY	: Jetender Babulal Jangid
ORGANIZED BY	: Indian Space Research Organization (ISRO)	ORGANIZED BY	: Nehru College Of Engineering and Research Centre (ATAL Online)
TITLE	: Transforming Healthcare: Recent Advances in Nanotechnology for Medical Application & Radiation Treatment	TITLE	: Holistic Disaster Management: Linking Resilient Infrastructure with Sustainability



DATE : 20-25 January, 2025  
ATTENDED BY : Bharathi M.  
ORGANIZED BY : National Institute of Technology Calicut  
(ATAL Online)

TITLE : Sustainable and Cutting-Edge Technologies  
in Civil Engineering

DATE : 21-29 January, 2025

ATTENDED BY : Akash Johari

ORGANIZED BY : Lingaya's Vidyapeeth, Haryana

TITLE : Smart Cities: Emerging Solutions and  
Sustainability

DATE : 27-31 January, 2025

ATTENDED BY : Abhishek Jain, Akash Johari, Ankur Mishra,  
Deepak Sharma, Gaurav Gupta,  
Jetender Babulal Jangid, Jitendra Kumar  
Vyas, Kishan Lal Jain, Nandini Moondra,  
Nishant Sachdeva, Pawan Patidar,  
Pooja Jain, Rakesh Choudhary,  
Sitaram Saini, Sunita Tolani,  
Nikhil Kumar Sharma

ORGANIZED BY : Swami Keshvanand Institute of Technology,  
Management and Gramothan, Jaipu

## **NPTEL / mooKIT/ IITBX / SWAYAM COURSE COMPLETED**

COURSE/ TOPIC : Accreditation and Outcome-Based  
Learning

COMPLETED BY : Kishan Lal Jain

DURATION & CATEGORY : August to October, 2024 (8 weeks).  
Awarded Elite + Silver Certificate

COURSE/ TOPIC : Accreditation and Outcome-Based  
Learning

COMPLETED BY : Nandini Moondra

DURATION & CATEGORY : August to October, 2024 (8 weeks).  
Awarded Elite + Gold (Top 5%)  
Certificate

COURSE/ TOPIC : Advanced Geomatics Engineering

COMPLETED BY : Abhishek Jain

DURATION & CATEGORY : July to October 2024 (12 weeks).  
Awarded Elite + Silver Certificate

## **M.TECH. SUPERVISED**

DISSERTATION TOPIC : Characterization of Micro  
surfacing Mixes with Reclaimed  
Asphalt Pavement (RAP)

NAME OF STUDENT : Deepesh Kumar Gupta

GUIDED BY : Nishant Sachdeva, Ankit Sharma

DISSERTATION TOPIC : Problem of Parking in Alwar City  
and Their Possible Solutions

NAME OF STUDENT : Garima Dixit

GUIDED BY : Nishant Sachdeva, D.K. Sharma

## **PAPER REVIEWED**

TITLE : Dynamic mechanical behavior of sandstone  
under static-dynamic combined cyclic impact

REVIEWER NAME : Bharathi M

JOURNAL : International Journal of Geomechanics, ASCE

TITLE : A Procedure for Addressing the Soil  
Abutment Interaction Problem in the Safety  
Assessment of Bridges

REVIEWER NAME : Bharathi M

JOURNAL : Soil Dynamics and Earthquake Engineering,  
Elsevier

TITLE : Seismic Response Study of the Coss  
Interchange Subway Station based on  
shaking table test

REVIEWER NAME : Bharathi M

JOURNAL : Journal of Earthquake and Tsunami

TITLE : Unveiling the Claims Trigger in Public  
Construction Projects: An In-Depth Analysis

REVIEWER NAME : Rakesh Choudhary

JOURNAL : Jordan Journal of Civil Engineering

TITLE : Pull-Out Strength of Cast-In Versus Post  
Installed Connectors in Ultra-Thin UHPC  
Members with POM Fibers

REVIEWER NAME : Rakesh Choudhary

JOURNAL : Journal of Building Engineering

## **NPTEL / mooKIT/ IITBX / SWAYAM COURSE COMPLETED**

TITLE : 5th International Conference on Trends and  
Recent Advances in Civil Engineering  
(TRACE-2024), Amity University, Uttar  
Pradesh, India

REVIEWER NAME : Abhishek Jain and Pooja Gupta

a beautiful force of pure nature  
who rules their present and their past

EXPERT TALK DELIVERED

TITLE : Advanced Concrete Technology  
DATE & VENUE : 17 October 2024. At Engineering Staff Training Institute, Jaipur  
DELIVERED BY : Rakesh Choudhary

TITLE : Advanced Concrete Technology  
DATE & VENUE : 05 November 2024. At Engineering Staff Training Institute, Jaipur  
DELIVERED BY : Rakesh Choudhary

TITLE : Advanced Concrete Technology  
DATE & VENUE : 18 November 2024. At Engineering Staff Training Institute, Jaipur  
DELIVERED BY : Rakesh Choudhary

TITLE : Advanced Concrete Technology  
DATE & VENUE : 3 December 2024. At Engineering Staff Training Institute, Jaipur  
DELIVERED BY : Rakesh Choudhary

TITLE : Advanced Concrete Technology  
DATE & VENUE : 16 December 2024. At Engineering Staff Training Institute, Jaipur  
DELIVERED BY : Rakesh Choudhary

TITLE : Maintenance and Repair of RCC Structures  
DATE & VENUE : 23 January, 2025. At Engineering Staff Training Institute, Jaipur  
DELIVERED BY : Rakesh Choudhary

ICI FEST 2024

The student chapter of the Indian Concrete Institute organized ICI Fest'24 from November 8th to 10th, 2024, at SKIT Jaipur. The inaugural ceremony was graced by the presence of Shri Jaipal Meel (Director, SKIT), Dr. Ramesh Kumar Pachar (Principal), Dr. R. K. Jain (Dean), Prof. D. K. Sharma (Head of the Civil Engineering Department), along with the heads of various other departments of SKIT. The major events of the fest included Brick O



Brick, EV Workshop, Bowling Alley, Coordination Clash, Webathon, Drone Workshop, etc. The key highlight of the fest was the 'Expo,' an amalgamation of technical evolution and innovation. Around 3,539 students from various institutions participated in the fest. Mr. Anirudh Mathur was the faculty coordinator of the event.

STUDENT WORKSHOP ON 'MS EXCEL-BASIC TO ADVANCED'

The 'MS Excel: Basic to Advanced' workshop was conducted from November 25th to 29th, 2024. The workshop aimed to equip students with essential skills in Microsoft Excel. It drew participation from 35 enthusiastic students eager to enhance their proficiency in Excel. Dr. Pooja Jain and Dr. J. K. Vyas coordinated the event.



FDP ON SMART CITIES: EMERGING SOLUTIONS AND SUSTAINABILITY

The five-day online faculty development program on "Smart Cities: Emerging Solutions and Sustainability" was organized by the Department of Civil Engineering, Swami Keshvanand Institute of Technology, Management and Gramothan (SKIT), Jaipur from 27-31 January, 2025. The faculty development program covered various aspects of smart city including transportation infrastructure, climate resilient design, sustainable technologies, and development of sustainable habitats, IOT applications, recycled smart materials, and vehicle pollution control. The online FDP received more than 300 registrations, out of which around 150 participants completed and received their participation certificates. Dr. Pooja Gupta was the Co-ordinator of the program, and Dr. Bharathi M. was the Organizing Secretary of the event.





## DEPARTMENT OF MANAGEMENT STUDIES

### CONFERENCE ORGANIZED

#### NATIONAL CONFERENCE ON “INNOVATIONS IN RENEWABLE ENERGY INTEGRATION AND SUSTAINABLE DEVELOPMENT FOR CLIMATE RESILIENCE”

The Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) in Jaipur organized the prestigious IRIS National Conference on “Innovations in Renewable Energy Integration and Sustainable Development for Climate Resilience” from October 24 to 26, 2024. The conference was sponsored by AICTE-VAANI and coordinated by Dr. Ashish Nayyar, Professor in Mechanical Engineering, and Dr. Savita Choudhary, Associate Professor in the Department of Management Studies. The event aimed to promote climate resilience through advancements in renewable energy and sustainable development, bringing together renowned scholars, industry experts, and researchers from across India. The conference began with an inaugural ceremony led by Dr. S.L. Surana, Director of Academics at SKIT, who lit the ceremonial lamp. Distinguished guests, including Mr. A.K. Jain and Mr. Ripudaman Magon, also addressed the audience. Dr. Surana emphasized the critical connection between increasing energy consumption and global warming, highlighting the urgent need for sustainable energy sources such as solar, wind, and hydropower.



Glimpses of the Conference

Throughout the conference, several plenary talks were conducted. Experts discussed pressing issues like climate change, pollution, sustainable agriculture, and environmental conservation. Environmentalist Shri Shyam Sunder Jyani introduced the concept of “Familial Forestry,” which encourages communities to treat trees as family members to promote environmental care. Additionally, Water Man Dr. Rajendra Singh shared insights on river pollution, traditional knowledge, and the importance of water conservation. As part of the conference, attendees participated in a hands-on learning experience with a visit to Jaipur's largest biogas plant at Hingonia Gaushala, where they learned about the biofuel production process. The event concluded with a vote of thanks from Dr. Ashish Nayyar, followed by a certificate distribution ceremony for all participants.

The IRIS-2024 conference was instrumental in raising awareness about sustainable development and energy innovations, reinforcing SKIT's commitment to a sustainable future.

#### INDUSTRIAL VISITS:

##### 1. Industrial Visit to Spiderlink Networks Pvt. Ltd

The Department of Management Studies, SKIT Jaipur, organized an industrial visit to Spiderlink Networks Pvt. Ltd. on November 15, 2024, providing MBA students with an opportunity to gain industry insights. Dr. Ajay Verma and Mr. Tarun Sharma coordinated the visit, which included 50 students and faculty members.

Spiderlink Networks, a leading Internet Service Provider (ISP) headquartered in Jaipur, is known for its high-speed connectivity, cloud solutions, network security, and digital services. During the visit, students explored the company's technical operations, HR and finance departments, and innovative technologies like fiber optics, data centers, and IP telephony.

The session emphasized real-world problem-solving, giving students hands-on exposure to the industry's challenges and processes. The visit bridged the gap between theoretical learning and practical application, making it a valuable educational experience. The day concluded with a group photo, marking a memorable and insightful event.



Glimpses of the Industrial Visit

## 2. Industrial Visit to Dev Milk Foods Pvt. Ltd.

The Department of Management Studies, SKIT Jaipur, organized an industrial visit to Dev Milk Foods Pvt. Ltd. (DMF) on November 18, 2024, for MBA students. Dr. Ajay Verma and Dr. Atul Gupta coordinated the visit, accompanied by 60 students.

DMF, Rajasthan's leading milk and dairy brand, has expanded beyond dairy into manufacturing, marketing, and transportation. The visit provided students with insights into FruBon, DMF's premium ice cream and bakery brand, which operates one of the most advanced dairy and bakery facilities in Northern India. Students explored milk processing, quality control, packaging, and supply chain operations, gaining firsthand knowledge of business expansion strategies and quality excellence.

The visit bridged theoretical learning with industry practices, offering insights into HR, finance, and global market interfacing. It was an enriching experience that enhanced students' understanding of corporate operations and entrepreneurial innovation. The day concluded with a group photo, marking a memorable and educational event.



## EXPERT LECTURE ON "INNOVATE TO LEAD: STRATEGIES FOR SUSTAINING COMPETITIVE ADVANTAGE"

The Department of Management Studies, SKIT Jaipur, organized an expert lecture on "Innovate to Lead: Strategies for Sustaining Competitive Advantage" on November 30, 2024. The session, led by Dr. Shikha Bakshi, HoD at XIMI, provided valuable insights into innovation, leadership, and competitive strategy. Dr. Bakshi discussed the role of innovation in business success, the importance of strategic leadership, and models like Porter's Five Forces and Blue Ocean Strategy. She shared inspiring examples from Tesla, Apple, and Mahindra, emphasizing ethical and sustainable innovation.

The session helped participants understand how to foster innovation, overcome challenges, and apply strategic insights in real-world business scenarios, making it an enriching learning experience.



## EXPERT LECTURE ON "DESIGNING TOMORROW: CREATIVE SOLUTIONS FOR COMPLEX BUSINESS CHALLENGES"

The Department of Management Studies, SKIT Jaipur, organized an expert lecture on "Designing Tomorrow: Creative Solutions for Complex Business Challenges" to help students develop innovative problem-solving approaches.

The session featured Dr. Happy Agrawal, a renowned motivational speaker and Assistant Professor at St. Xavier's College, Jaipur. She emphasized the role of creativity, design thinking, and lateral thinking in overcoming modern business challenges. Real-world examples from IKEA, Airbnb, and Google showcased how innovative strategies drive success.

Students gained practical insights into brainstorming techniques, risk-taking, and fostering a creative mindset. The session concluded with an interactive Q&A, encouraging students to apply innovative solutions in their careers. Dr. Agrawal's engaging talk inspired students to think differently and embrace creativity in business problem-solving.



## NATIONAL SEMINAR ON "ENTREPRENEURSHIP AND STARTUPS"

The Department of Management Studies, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur, organized a two-day seminar on "Entrepreneurship and Startups" on November 22-23, 2024. The seminar provided a platform for aspiring entrepreneurs, students, and industry experts to discuss key aspects of business innovation, startup development, and economic growth.



The event was inaugurated by Dr. Ona Ladiwal, Head-DMS, followed by a keynote address from Sh. Rakesh Rao, Managing Consultant & Startup Mentor, iStart Rajasthan, emphasized the entrepreneurial mindset and the importance of adaptability, resilience, and risk-taking.

The seminar featured five expert-led plenary sessions, covering topics such as idea generation and validation, startup execution strategies, funding mechanisms, team building, and financial decision-making. Renowned industry professionals, including Mr. Sumit Srivastava (Founder & CEO, Startup Chaupal), Mr. Puneet Datta (CEO, IIHMR Foundation), Mr. Abhishek Gupta (Partner, Chikitsa.io), Mr. Sumit Agrawal (Managing Director, Aask Education), Mr. Bharat Sharma (Founder, Stocnerv Learning), and Mr. Naman Jain (Founder & CEO, Listerr), shared their expertise and real-world experiences. The seminar concluded with a Valedictory Session, where certificates were distributed to participants by Prof. B. L. Sharma (President, IIC), Dr. S.K. Gupta (Vice President, IIC), and Dr. Ajay Dhanopia (Convener, IIC). Dr. Atul Gupta, the Seminar Coordinator, presented the seminar report and acknowledged the contributions of faculty, organizers, and participants. The highly engaging and insightful sessions enabled students to gain practical knowledge, network with industry leaders, and explore entrepreneurial opportunities. The seminar, coordinated by Dr. Atul Gupta and Dr. Ajay Dhanopia, was a resounding success, fostering innovation, collaboration, and startup ecosystem growth.



National Seminar



National Seminar

## FDP ON “FINANCIAL PLANNING AND STRATEGIES”

The Department of Management Studies, SKIT Jaipur, organized a Faculty Development Program (FDP) on Financial Planning, Tax Planning, and Tax Filing from December 17-21, 2024. The FDP aimed to enhance participants' understanding of direct taxation, tax computation, financial planning, investment strategies, and tax return filing.

Eminent speakers, including CA Parth Jhawar, Mr. Sanjany Jhawar, and Dr. Vandana (ISTD Member), led insightful sessions on sources of income, investment opportunities, and tax filing procedures, financial planning, and portfolio management. Participants gained updated knowledge, practical skills, and networking opportunities, enabling them to apply financial concepts effectively. The FDP was well-received, equipping attendees with valuable expertise in tax planning and financial management. Coordinated by Dr. Atul Gupta and Dr. Ajay Dhanopia, the program successfully bridged the gap between theory and practical application.



Glimpses of the FDP



## DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

### DEPARTMENT OF PHYSICS

#### PAPERS PRESENTED IN THE CONFERENCE

TITLE : Composites of Copper Nanoparticles with Cis- and Trans-polyisoprene Blend: Dynamic Mechanical, Mechanical and Thermal Analysis  
PRESENTER/S : Manasvi Dixit  
CONFERENCE : International Conference on Materials and Thermo-physical Properties (ICMTP-2024) held during 21-23 November 2024 at UOR, Jaipur.

#### FACULTY DEVELOPMENT PROGRAM (FDP) ATTENDED

TITLE : Five-day FDP on “Financial Planning and Investment Strategies”  
DATE : 17-21 December, 2024  
VENUE : Department of Management Studies, SKIT, Jaipur  
ATTENDED BY : Ajay Kumar Sharma, Pawan Kumar Jain, Rajiv Kumar, Komal Sharma, Manasvi Dixit, Brajraj Sharma

#### WORKSHOP ATTENDED

TITLE : One-Week Online Workshop on “IP SAATHI 2024”  
DATE : 16- 21 December 2024  
VENUE : Innovative Technology Enabling Center- In TEC, CSIR-Institute of Minerals and Material Technology (IMMT), Bhubaneswar, Odisha  
ATTENDED BY : Komal Sharma

TITLE : One-Week Online Workshop on “IP MENTOR 2025”  
DATE : 10- 15 February 2025  
VENUE : Innovative Technology Enabling Center- In TEC, CSIR-Institute of Minerals and Material Technology (IMMT), Bhubaneswar, Odisha  
ATTENDED BY : Komal Sharma

### DEPARTMENT OF ENGLISH

#### WORKSHOP ATTENDED

TITLE : National Level Virtual Workshop on Next Gen Research Tools  
DATE : 3- 7 December 2024  
VENUE : SRM Institute of Science & Technology, Chennai  
ATTENDED BY : Kirti Bala and Rashmi Kaushik

### DEPARTMENT OF MATHEMATICS

#### PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

TOPIC : नवीकरणीय ऊर्जा एकीकरण और जलवायु सुधार के लिए संधारणीय विकास में नवाचार हेतु राष्ट्रीय संगोष्ठी  
AUTHOR/S : Jyoti Arora, Pramila Kumawat, Sangeeta Choudhary  
PROCEEDING : Proceedings of International conference AICTE-VAANI -IRIS-2024

#### PAPERS PRESENTED IN CONFERENCES

TITLE : Numerical Simulation for MHD Casson Fluid Flow with Heat Transfer in a Porous Medium over a Curved Surface  
AUTHOR/S : Surbhi Sharma  
CONFERENCE : 2 International conference on Recent Trends in Mathematics, Hansraj College, University of Delhi  
  
TITLE : Heat Transfer Effect on MHD Prandtl Fluid Flow in a Porous Medium with Melting and Slip Effect: Numerical Techniques  
AUTHOR/S : Surbhi Sharma  
CONFERENCE : International Conference on recent advancements in Science and technology, N.G. Acharya & D.K. Marathe College of Arts, Science & Commerce, University of Mumbai.

#### FDP/STTP ATTENDED

TITLE : Artificial Intelligence and Optimization Techniques using MATLAB  
DATE : 7.10.2024 to 11.10.2024  
VENUE : Electrical Engineering Department, SKIT Jaipur  
ATTENDED BY : Vivek Vijay



TITLE : FDP on Artificial Intelligence and  
Optimisation Techniques using MATLAB  
DATE : 7.10.2024 to 11.10.2024  
VENUE : NITTTR, Chandigarh  
ATTENDED BY : Vijay Kumar Singhal

COURSE/ TOPIC : Developing Soft Skills and  
Personality  
COMPLETED BY : Pramila Kumawat  
DURATION & CATEGORY : (19-08-2024 to 11-10-2024) 8 week,  
Silver Certificate

TITLE : FDP on Financial planning and Investment  
strategies  
DATE : 17.12.2024 to 21.12.2024  
VENUE : Department of MBA, SKIT  
ATTENDED BY : Jyoti Arora, Surbhi Sharma, Amit Dadheech

TITLE : FDP on Recent Development in Pure and  
Applied Mathematics, Indian Mathematical  
Society  
DATE : 23.12.2024 to 28.12.2024  
VENUE : Indore Institute of Science and Technology  
with the Indian Mathematical Society  
ATTENDED BY : Jyoti Arora, Surbhi Sharma, Amit Dadheech

TITLE : FDP on FDP on Recent advances in chemical  
science and engineering  
DATE : 06.01.2025 to 10.01.2025  
VENUE : Department of Chemistry, School of  
Engineering, Presidency University Bengaluru  
ATTENDED BY : Surbhi Sharma, Amit Dadheech

TITLE : ATAL FDP on Preserving Local Dialects Using  
Multi-layer Perceptron for Sustainable  
Development of Communities  
DATE : 20.01.2025 to 25.01.2025  
VENUE : Poornima Institute of Engineering &  
Technology, Jaipur  
ATTENDED BY : Amit Dadheech, Jyoti Arora, Surbhi Sharma

TITLE : FDP on Smart Cities: Emerging Solutions and  
Sustainability  
DATE : 27.01.2025 to 31.01.2025  
VENUE : Department of Civil Engineering SKIT  
ATTENDED BY : Amit Dadheech, Jyoti Arora, Surbhi Sharma

TITLE : FDP on RDBMS PostgreSQL  
DATE : 15.01.2025 to 20.01.2025  
VENUE : Department of Computer Science, SKIT  
ATTENDED BY : Amit Dadheech, Jyoti Arora, Surbhi Sharma

## NPTEL COURSES COMPLETED

COURSE/ TOPIC : Combinatorics  
COMPLETED BY : Vivek Vijay  
DURATION & CATEGORY : (22-07-2024 to 23-10-2024)  
12 week, Elite Certificate

## DEPARTMENT OF CHEMISTRY

### PAPERS PRESENTED IN CONFERENCES

TITLE : Synthesis of Some Ethoxyphthalimido  
Pyrazoloisoxazoles, Pyrazolopyrimidines and  
Evaluation of their Antimicrobial & Anticancer  
Activities  
AUTHOR/S : Swati Joshi and Poonam Ojha  
CONFERENCE : International Conference on Emerging Trends in  
Chemistry to Revolutionize Indian Chemical  
Industries for Viksit Bharat@2047, JECRC  
University, Jaipur, 19 to 21 December 2024

TITLE : Green Chemistry Mediated and Bio-Inspired  
Synthesis of Copper Oxide Nanoparticles  
AUTHOR/S : Poonam Ojha and Swati Joshi  
CONFERENCE : International Conference on Emerging Trends in  
Chemistry to Revolutionize Indian Chemical  
Industries for Viksit Bharat@2047, JECRC  
University, Jaipur, 19 to 21 December 2024.

### FDPs ATTENDED

TITLE : One Week FDP on Financial Planning and  
Investment Strategies  
DATE : 17 to 21 December 2024  
ATTENDED BY : Swati Joshi and Poonam Ojha  
ORGANIZED BY : Department of Management Studies, SKIT, Jaipur

TITLE : 5 days FDP on Recent Advances in Chemical  
Science and Engineering  
DATE : 6 to 10 January, 2025  
ATTENDED BY : Swati Joshi and Poonam Ojha  
ORGANIZED BY : Department of Chemistry, Presidency  
University, Bengaluru

TITLE : Preserving Local Dialects Using Multi-layer  
Perceptron for Sustainable Development of  
Communities  
DATE : 20 to 25 January, 2025  
ATTENDED BY : Swati Joshi and Poonam Ojha  
ORGANIZED BY : ATAL



## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### PAPERS PUBLISHED IN JOURNAL

TITLE	: Dynamic Feature-Based Detection of Malware in Non-Executable Files Using a 1D Convolutional Neural Network
AUTHOR/S	: Amit Kumar Singh, Swapnesh Taterh, Pankaj Dadheech
JOURNAL	: Panamerican Mathematical Journal, Volume 35, Issue 2, pp. 678-691, 2025
TITLE	: Face Identification based on Different Convolutional Neural Network Models for Security System: A Review
AUTHOR/S	: Reena Sharma, Vijay Kumar Sharma, Arjun Singh, Dinesh Goyal, Pankaj Dadheech
JOURNAL	: Panamerican Mathematical Journal, Volume 35, Issue 2, pp. 626-631, 2025
TITLE	: Exploring Load Balancing in Cloud Computing
AUTHOR/S	: Archika Jain, Pankaj Dadheech
JOURNAL	: International Journal of Innovative Research in Technology (IJIRT) Volume 11, Issue 6, pp. 3165 3169
TITLE	: Optimizing Breast Cancer Prognosis with Machine Learning for Enhanced Clinical Decision-Making
AUTHOR/S	: Anuraj Jagetiya, Pankaj Dadheech
JOURNAL	: Bio-Algorithms and Med-Systems, Volume 20, Issue 1, pp. 37-48, 2024

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TITLE	: Evaluation of the $\alpha$ -IGZO thin film transistor's performance in radio frequency and analog measurements
AUTHOR/S	: Abhinandan Jain, Praveen Kumar Jain
JOURNAL	: MRS Advances, (29 November 2024) pp. 1-9
TITLE	: Efficiency Enhanced Sneezewort Plant Inspired Antenna for mm-wave Applications
AUTHOR/S	: Pallav Rawal

JOURNAL	: Microwave Review, Vol. 30; Issue 2 (30 December 2024) pp. 71-81
TITLE	: Asymmetrical Split Ring Resonators based Plasmonic Sensor for Improved Sensing Performance
AUTHOR/S	: Rahul Pandey, Rukhsar Zafar
JOURNAL	: Journal of Optics, (16 January 2025) pp. 1-9

## DEPARTMENT OF MECHANICAL ENGINEERING

TITLE	: Enhancing wear resistance of aluminium 6061 composites with fly ash: A sustainable approach for industrial applications.
AUTHOR/S	: Raj Kumar
JOURNAL	: Advances in Mechanical Engineering, Vol. 16; Issue 10; (2024).
TITLE	: Impact of Alumina and Silicon Carbide Fillers on Epoxy/Glass Fiber Based Hybrid Composites' Dimensional Stability.
AUTHOR/S	: Raj Kumar
JOURNAL	: Journal of The Textile Association, Vol. 85; Issue 3; (2024) pp. 307-313.
TITLE	: A Literature Review on Green Supply Chain Management for Sustainable Sourcing and Distribution.
AUTHOR/S	: Dharmendra Hariyani
JOURNAL	: Waste Management Bulletin, Vol. 2; (2024) pp. 231-238.
TITLE	: Statistical Analysis of Total Quality Management Employees, Customers, Suppliers, and Management Dimensions in Hotel Industries in Jaipur City, Rajasthan, India.
AUTHOR/S	: Dharmendra Hariyani
JOURNAL	: Sustainability Analytics and Modelling, Vol. 4; (2024) pp. 100033.
TITLE	: A Review of the Structured Framework for Sustainability Audits in Manufacturing Organizations.
AUTHOR/S	: Dharmendra Hariyani
JOURNAL	: Green Technologies and Sustainability, Vol. 3; (2024) pp. 100170.
TITLE	: A Literature Review on Transformative Impacts of Block chain Technology on Manufacturing Management and Industrial Engineering Practices.
AUTHOR/S	: Dharmendra Hariyani
JOURNAL	: Sustainability Analytics and Modeling, Vol. 3; (2024) pp. 100169



TITLE : Exploring Regression Analysis in Predictive Modelling with Python Tool.  
AUTHOR/S : Deepak Kumar, Achin Srivastav, Manoj Kumar Sain, Vikash Gautam  
JOURNAL : SKIT Research Journal, Vol. 14 (2); (2024) pp. 52-55

## DEPARTMENT OF CIVIL ENGINEERING

TITLE : Machine learning and deep learning approaches for PM2.5 prediction: a study on urban air quality in Jaipur, India  
AUTHOR/S : Saurabh Singh  
JOURNAL : Earth Science Informatics, Vol. 18, 2025

TITLE : Machine Learning Approach for Predicting Perfluorooctanesulfonate Rejection in Efficient Nanofiltration Treatment and Removal  
AUTHOR/S : Saurabh Singh  
JOURNAL : ACS ES&T Water, Vol. 5, Issue 3, pp. 1216-1228, 2025

TITLE : Strength and Durability Assessment of Dolomite Mine Overburden for Ground Improvement  
AUTHOR/S : Nishant Sachdeva  
JOURNAL : Indian Geotechnical Journal-Springer, pp. 1-19, 2024

TITLE : Investigation of Mechanical Properties of Al5083 Metal Matrix Composites Reinforced with Cu and Ni Particulates: A Study of Flexural and Tensile Behavior  
AUTHOR/S : Jetender Babulal Jangid  
JOURNAL : SKIT Research Journal, Vol. 14, Issue 2, pp. 56-60, 2024

TITLE : Problem of Parking in Alwar City and their Possible Solutions  
AUTHOR/S : Nishant Sachdeva, Dinesh Kumar Sharma  
JOURNAL : SKIT Research Journal, Vol. 14, Issue 2, pp. 61-69, 2024

TITLE : State-of-the-Art Review in MicroSurfacing: Harnessing Reclaimed Asphalt Pavement (RAP) for Sustainable Pavement Preservation  
AUTHOR/S : Nishant Sachdeva, Dinesh Kumar Sharma  
JOURNAL : SKIT Research Journal, Vol. 14, Issue 2, pp. 77-87, 2024

TITLE : Assessing Urban Pedestrian Infrastructure: A Review of Deficiencies, Flow Dynamics, and Safety  
AUTHOR/S : Anirudh Mathur, Nishant Sachdeva  
JOURNAL : SKIT Research Journal, Vol. 14, Issue 2, pp. 88-93, 2024

TITLE : Ground Improvement using Geosynthetics: A Review  
AUTHOR/S : Pooja Gupta, Sunita Tolani, Akash Johari  
JOURNAL : SKIT Research Journal, Vol. 14, Issue 2, pp. 94-98, 2024

TITLE : Corner Modifications and Their Effect on Wind Induced Forces in High-Rise Structures  
AUTHOR/S : Ankur Mishra  
JOURNAL : SKIT Research Journal, Vol. 14, Issue 2, pp. 99-104, 2024

## DEPARTMENT OF PHYSICS

TITLE : Circularly Polarized Exotic Tri-Shakti Shaped Patch Antenna for 5G Millimeter Wave Communication Systems  
AUTHOR/S : Komal Sharma  
JOURNAL : Journal of Nano and Electronic Physics 16 (2024) 04032.

TITLE : Fascile Synthesis of Ternary NiFe<sub>2</sub>O<sub>4</sub>-Co<sub>3</sub>O<sub>4</sub>@G nano-composite for supercapacitor  
AUTHOR/S : Rajiv Kumar  
JOURNAL : Journal of Eng. Res. Express 6 045012.

## DEPARTMENT OF MATHEMATICS

TOPIC : EMHD Flow of Double Stratified 3D-Cobalt Ferrite Based Maxwell Nano liquid Flow over an Exponentially Stretching Surface  
AUTHOR/S : Sumit Gupta, Vijay Kumar Singhal  
JOURNAL : Physica Scripta

TOPIC : INDIGO DYE: Sustainable Dying Option For Textile Industry  
AUTHOR/S : Jyoti Arora  
JOURNAL : Indian Journal of Environmental Protection

## DEPARTMENT OF CHEMISTRY

TITLE : Toxicity of Copper oxide nanoparticles: A Review  
AUTHOR/S : Swati Joshi and Poonam Ojha  
JOURNAL : SKIT Research Journal, Vol. 14; Issue 2 (2024) pp. 105-113





## ENGLISH ENCLAVE

### ASTROLOGUE: BREWING DESTINY – AI, ASTROLOGY & COFFEE

For centuries, we've looked up at the stars, searching for meaning—guiding our choices, relationships, and even moods. But what if the cosmos could also influence something as simple yet essential as your daily cup of coffee?

That's where AI steps in. Imagine a world where your zodiac sign and current mood decide your coffee order—not a barista, but an AI-driven system that blends astrology with machine learning to craft the perfect brew. Sounds futuristic? Well, the stars might just align to make this a reality!

#### Cosmic Codes & Coffee Cravings

Picture this: You walk into a café, and instead of scrolling through a long menu, an AI-powered system scans your face, identifies your zodiac sign, and detects your mood. Within seconds, it suggests a coffee that matches your celestial energy.

Feeling restless and ambitious like an Aries? You might need an intense espresso to fuel your fire. Floating in dreamy Pisces vibes? A sweet vanilla latte would be your go-to. The AI doesn't just recommend—it deciphers, predicts, and personalizes your coffee experience, making every sip feel written in the stars.

#### How the AI Reads the Stars (and Your Taste)

The magic of this system isn't just in astrology—it's powered by a blend of facial recognition, sentiment analysis, and machine learning. Here's how it works:

##### 1. Face Scan & Mood Detection

- AI reads facial expressions to detect emotions—stress, happiness, fatigue, or excitement.
- It then matches these moods with your astrological tendencies.

##### 2. Zodiac-Driven Coffee Pairing

- Earth signs (Taurus, Virgo, and Capricorn) prefer grounded, nutty brews.
- Air signs (Gemini, Libra, and Aquarius) might enjoy light, citrus-infused coffee.
- Water signs (Cancer, Scorpio, and Pisces) lean towards smooth, comforting flavors.
- Fire signs (Aries, Leo, and Sagittarius) crave bold, high-energy blends.

##### 3. Learning Your Cosmic Preferences over Time

- The more you use the system, the better it understands your taste.
- AI refines its recommendations based on your feedback, ensuring every order is spot-on.

#### The Future of Coffee: A Café That Knows You

This isn't just about coffee—it's about experiencing the universe in a cup. Imagine a café where:

- Digital screens show real-time planetary transits
- AI chatbots give personalized astrological insights
- An AI barista crafts your drink based on your cosmic vibes

The fusion of AI, astrology, and coffee culture is more than just a trend—it's a new way to connect with ourselves and the universe. Whether you're sipping on a Scorpio-inspired dark roast or a Libra-style caramel macchiato, your coffee is no longer just a drink—it's an experience written in the stars.

So, next time you take a sip, think about it—

**Was this just a random craving, or was it destiny in a cup?**

**Anushka Jain**

**CS, IV Yr**

### NATARAJ: THE COSMIC DANCE OF THE UNIVERSE

The universe is not still. It is a grand, ever-moving expanse where the dance of creation, preservation, and destruction unfolds on an unimaginable scale. Galaxies spiral, stars explode into brilliant supernovae, and black holes devour everything in their reach. Even at the smallest level, the fundamental particles that make up all existence flicker in and out of being, never at rest. Everything moves. Everything transforms. Nothing is ever truly destroyed.

This eternal rhythm of the cosmos finds its deepest expression in Nataraj, the cosmic form of Lord Shiva. In Hindu philosophy, Shiva's Tandava is not just a dance—it is the very pulse of the universe. His movements mirror the forces that shape reality itself. Scientists today describe the universe in much the same way: celestial bodies are born, sustained for millions or billions of years, and eventually collapse, only for their elements to form new stars, planets, and even life in a never-ending cycle. The ring of fire around Nataraj symbolizes the infinite flow of time, much like how physicists describe the continuous expansion and contraction of the universe.

Just as Shiva's damru (drum) creates the cosmic vibration that gives birth to existence, modern science tells us that the universe began with a Big Bang—a moment of immense energy that gave rise to space, time, and matter. The expansion of the universe



continues to this day, driven by a mysterious force known as dark energy. Yet, just as Shiva's dance has cycles of creation and dissolution, some physicists believe that the universe's expansion may one day reverse, leading to a "Big Crunch," where everything collapses into a singularity—only to explode outward again, restarting the cycle. This mirrors the Hindu concept of Kalpas, vast cosmic epochs where universes are created and destroyed endlessly, much like Shiva's Ananda Tandava, the dance of blissful renewal.

But the cosmic dance is not only visible on the grand scale of galaxies and time itself—it is happening at the quantum level, deep within the very fabric of reality. Quantum mechanics, the study of the smallest particles of existence, tells us that nothing is ever truly still. Particles vibrate, shift, and exist in multiple states at once. They appear and disappear in an unpredictable yet strangely ordered rhythm, just like the movements of Shiva's dance. The fundamental nature of reality is not fixed—it is a ceaseless motion, an eternal Tandava.

Nowhere is the connection between Shiva's cosmic dance and the universe more profound than in black holes, the most mysterious objects in existence. These vast, invisible entities, formed when massive stars collapse, consume everything in their path—matter, light, even time itself. Black holes are the ultimate force of destruction, much like Shiva's Rudra Tandava, the fierce dance of dissolution. Yet, destruction in Shiva's dance is never absolute—it is always a path to rebirth. Some physicists propose that black holes may be more than just cosmic voids; they could be gateways to new universes, connected through wormholes, much like how Shiva's destruction always leads to the birth of something new. Even Hawking radiation, the discovery by physicist Stephen Hawking, suggests that black holes slowly evaporate over time, reinforcing the idea that nothing is ever truly lost—only transformed.

The deep parallels between Hindu cosmology and modern physics have not gone unnoticed. At CERN, the world's most advanced physics research centre, a statue of Nataraj stands at the heart of its headquarters. The very scientists who study the fundamental forces of the universe recognize in Shiva's dance a truth that transcends time and culture. To them, his Tandava represents the unbreakable rhythm of creation and destruction—the whirling of galaxies, the flickering of quantum particles, the infinite cycles of cosmic birth and death.

Yet, Nataraj's dance is not only unfolding in distant galaxies or within quantum fields. It is happening everywhere, at every moment. It is in the rise and fall of civilizations, in the orbits of planets, in the life cycles of stars. It is in the fire that consumes a forest, only for new life to grow from the ashes. It is in the silent yet unstoppable transformation of our own lives, in every loss that makes way for something greater.

The universe itself is in a state of constant motion, and we are all part of it. The stars, the atoms, the galaxies—they all move to the

same rhythm, guided by the same forces. Whether we look through a telescope at the vastness of space or through a microscope at the tiniest particles, we see the same truth: motion is the essence of existence.

Shiva's dance is not a metaphor.

It is the very movement of the universe itself

**Lakshya Agarwal**

**IT, I Yr**

## **BETWEEN DARKNESS AND DOUBT**

What if the stars aren't guiding us, but watching us — silent witnesses to our fleeting lives?

We say they shine to inspire us, yet most of their light is already dead, a whisper from a past that no longer exists. Are we chasing illusions, admiring embers long turned cold? Perhaps that's what hope is: believing in something that no longer burns, yet still manages to light the sky.

But what if those dying stars mean something else, a warning that everything, no matter how brilliant, must one day fade? We speak of destiny as if the universe has a plan, yet galaxies collide, stars collapse, and planets drift alone in endless darkness. Where's the meaning in that? Maybe meaning isn't given, maybe it's stolen from chaos. After all, the same forces that tear stars apart also forge new ones. Creation isn't calm, it is destruction, learning to wear a different face.

But then... what if nothing awaits after the fire dies? What if the light fades and silence is all that remains? Or perhaps silence is the answer, the quiet voice reminding us that even the brightest flames must surrender to the dark. So what are we left with? A choice, perhaps to fear the darkness, or to embrace it... and become the light ourselves.

**Dharmdev Dodvadiya**

**CSE (AI) - I Yr**

## **THE LANGUAGE OF THE UNIVERSE**

No matter how far away we are geographically, culturally, or socially, no matter how many lingual barriers fortify us in our cultural shells and how many different points of view we possess, there is something in this world that transcends them all. There is something that makes it possible for us to communicate with people who have completely contrasting cultures. There is something which makes it possible for a Hindi speaker to correctly resonate with all the emotions in a Telugu song, and a person to understand by mere observation a language they have never learnt before. There is something that makes you trust a person whom you have just met. It is the same feeling that would leave you teary-eyed for the sacrifice of a soldier on the border you have

never met. The feeling in your gut guides you through situations where your logic ceases to function. There is something, probably a language, that doesn't work based on scripts, words, and sentences. A language everyone understands but has been forgotten by many.

The language of exuberance, of things accomplished with a sense of unconditional love and purpose, the language of a united belief or struggle to search for something we share a faith in, the language of omens that we believe in. The intuition of the Supreme intelligence that resides within us and the energies that we very often feel at certain points, which guide us to get involved or withdraw from a situation, is all a part of that sublime and ineffable language; the language of the Universe.

This trans mundane entity, the Universe, uses these trivial and subtle ways to communicate with everyone, but the ones who can decipher the messages sent by it are the people who believe in them and are receptive.

The Universe connects to us using various signals and symbols. Some of them are angel no. synchronicities which might happen to catch your attention much more often, giving you a certain kind of message. It may as well be through your gut feeling and intuition, or showing you omens that you might consider auspicious or inauspicious in some way, guiding you in favor of or against a particular thing happening to you at the moment. But to observe these and interpret their meanings in your context, you have to be a keen observer of the subtle ways in which this Universe communicates with you. Believe it or not, the Universe answers all your prayers and questions, but you get the gist of the communication if and only if you have faith in the ways of the Universe.

The Universe has its ways. It puts the right thing in the right place at the right time and in front of the right person. Though the future is chartless, we trust the universe in its process of guiding us through this journey called life.

**Falaasha Nothalia**

**AI - II Year**

## WHISPERS AMONG THE STARS

The clearer the sky, the denser the moonlight, the greater the number of stars, the more numerous the lost souls in the sky. And as we gaze up at the celestial canvas, we're reminded that even in the vastness of the universe, our deepest longings and greatest sorrows are not alone. For in the silence between the stars, whispers a forgotten melody, a harmony of heartbeats, echoing across eternity, searching for a home within the chambers of our souls.

**By Divyansh Sharma**

**CSE, I Yr**



## हिन्दी अनुभाग

### नियति



अनंत काल से मनुष्य सदैव एक खोज में लगा हुआ है, कि वह अपने जीवन में सुरक्षित हो सके पर यहाँ पर सुरक्षित होना किसी जीव जंतु या जानवर से सुरक्षित होना नहीं है ये सुरक्षित शब्द जीवन में आगे आने वाली बाधाओं और भविष्य में घटने वाले घटनाक्रम से है। आज भी इस समय में यही चला आ रहा है, ज्योतिष शास्त्र या अगर मैं इसे विद्या कहूँ तो संसार इसे लेकर आज भी दो भागों में खुद को बाँट लेता है, कुछ मानते हैं कि ये ज्योतिष सब मन में डर और भय बैठाने के लिए है, और कुछ लोग इस पर विश्वास करते हैं।

असुरक्षा एक ऐसी अवस्था है जो मानव को कहीं न कहीं ये विश्वास करने पर मजबूर कर देती है या फिर ये यकीन दिला देती है, कि ये अंतरिक्ष में जो तारा मंडल है ये यही नहीं है, जो गृह नक्षत्र हमारे जीवन में चर, गोचर होते हैं।

इनका कोई न कोई अर्थ जरूर है।

ये इसीलिए भी होता है क्योंकि जब तक जीवन सरल सुगम और सार्थक रूप से चल रहा है, तब तक व्यक्ति सुरक्षित महसूस करता है, लेकिन जब कोई काम अटक जाते हैं

जब पुरुषार्थ वाला कर्म भी सार्थक नहीं होता तब व्यक्ति किसी न किसी पंडित ज्योतिष के द्वार पर जाता है। और इसमें कोई परेशान होने की बात भी नहीं है

लेकिन आज कल लोगों ने कुछ ग्रहों की इतनी निंदा की है कि मनुष्य के भीतर भय की भावना है और इस पंक्ति में शनि, के साथ राहु, केतु भी आ जाते हैं। पर सवाल ये भी है कि क्या हमें इन ग्रहों और नक्षत्रों की दशा और दिशा से घबराना चाहिए? इसका जवाब है बिल्कुल नहीं।

कोई भी व्यक्ति अपनी कुंडली को पूर्णतः सही नहीं बना सकता है। कोई भी ये नहीं चाह सकता कि जिस ग्रह से उसके जीवन में परेशानी आती है वो उस गृह का कोई उपाय कर ले या उस गृह से खुद को बचा ले। इस बात पर एक किस्सा याद आता है, आइए समझते हैं कि हर गृह की अपनी एक विशेषता और जरूरत है

जब विवेक भारत के एक टियर-2 शहर में एक विशाल मल्टीप्लेक्स के मैनेजर बने, तो उन्हें अचानक चालीस लोगों की टीम का नेतृत्व करना पड़ा। कुछ लोग उन्हें तुरंत पसंद आए। कुछ नहीं। कुछ तो उन्हें बिलकुल अखरते थे। लेकिन उनके पास किसी को निकालने का विकल्प नहीं था। उन्हें सभी के साथ काम करना था। और वह सोचते रहे-कैसे? और आश्चर्यजनक रूप से, उन्हें जवाब मिला ज्योतिष में। ज्योतिष की सामग्री में नहीं, बल्कि उसकी “संरचना” में।

बचपन में उन्हें सिखाया गया था कि हिंदू पौराणिक कथाओं में देवता अच्छे होते हैं और असुर बुरे।



लेकिन जब भी उनकी माँ उन्हें नव-ग्रहों ( ज्योतिष के नौ देवताओं ) के मंदिर ले जातीं, तो वहाँ वे केवल देवताओं और उनके गुरु बृहस्पति को ही नहीं, बल्कि दो असुरों-राहु और केतु-और उनके गुरु शुक्र को भी देखते। सभी प्रार्थनाओं और अनुष्ठानों में, इन दोनों दैत्यों को समान रूप से स्वीकार किया जाता और शामिल किया जाता। उन्हें बताया गया कि सभी ग्रह महत्वपूर्ण हैं। चाहे अच्छे हों या बुरे, वे एक टीम बनाते हैं और किसी को भी छोड़ा नहीं जा सकता। विवेक को एहसास हुआ कि उनके सामने उनके नव-ग्रह ही थे ( नौ नहीं, बल्कि चालीस! ), और उन्हें सभी के साथ काम करने का तरीका ढूँढना था। किसी को बाहर करना कोई विकल्प नहीं था।

विवेक जानते थे कि प्रत्येक ग्रह की एक विशेषता होती है, जिसे बदला नहीं जा सकता। ग्रहों की तरह, उनकी टीम के हर सदस्य का एक अनोखा स्वभाव था, जो चाहे जितनी बार समझाया सिखाया जाए, बदलता नहीं था।

कुछ सूर्य की तरह थे-तेजस्वी, प्रभावशाली, और सबका ध्यान खींचने वाले।  
कुछ चंद्र की तरह-अत्यधिक भावुक, जिनके मिजाज लगातार बदलते रहते।  
कुछ मंगल की तरह आक्रामक।  
कुछ बुध की तरह तीक्ष्ण, बुद्धिमान, संवादकुशल, पर फिसलन भरे।  
बृहस्पति वाले-तर्कसंगत, वैज्ञानिक, साक्ष्य-आधारित और उबाऊ थे।  
शुक्र वाले-कामुक, रचनात्मक, अंतर्ज्ञानी, और सनकी।  
शनि वाले चिढ़ाने वाले-प्रतिभाशाली पर निराशावादी,

इसलिए जल्दबाजी न करने वाले, जो विवेक के धैर्य की परीक्षा लेते। उन्हें राहु वाले टीम के सदस्य पसंद नहीं थे, जो चीजें छुपाते, विचारों को रोकते, अंधकार फैलाते और भ्रम पैदा करते। वे बेचैन और घबराए केतु वालों को भी नापसंद करते, जिनमें दिशाबोध ही नहीं था। ग्रहों की तरह, विवेक को अपने लोगों के स्वभाव के साथ काम करना था-स्थिति के अनुसार उन्हें बढ़ाना या निष्क्रिय करना।

विवेक जब अपने संगठन को आकाश के रूप में देखना शुरू किया। जिस तरह आकाश को चंद्र नक्षत्रों और सौर राशियों ( राशिचक्र ) में बाँटा गया है, उनका संगठन विभागों में बाँटा था। वित्त, एचआर, मार्केटिंग, सेल्स, रिसर्च, सर्विस, हाउसकीपिंग जैसे विभाग तारों से जड़े नक्षत्र थे, जहाँ उनके ग्रह निवास करते। जिस तरह एक ग्रह अपने राशि-स्थान पर प्रभाव डालकर किसी व्यक्ति के भाग्य को प्रभावित करता है, उसी तरह विवेक के टीम के सदस्य अपने-अपने विभागों पर प्रभाव डालकर संगठन के कामकाज को प्रभावित करते। अगर उनका कैशियर बृहस्पति जैसा था, तो सब कुछ व्यवस्थित और तर्कसंगत ढंग से होता, अगर शुक्र जैसा होता, तो काम में चतुराई होती। शनि वाला कैशियर कभी समय पर काम नहीं करता, जबकि केतु वाला हमेशा घबराया और बेचैन रहता।

स्वाभाविक सवाल जो उनके मन में उठा-कौन-सा ग्रह किस काम के लिए अच्छा है? जवाब नहीं मिला, क्योंकि यह इच्छानुकूल परिणाम और विभाग की भूमिका पर निर्भर था। कभी उन्हें एचआर विभाग के लिए राहु चाहिए होता, जो वास्तविक गतिविधियों को छुपाए, तो कभी पारदर्शी सूर्य। शुरुआत में वे प्रमोशन को मंगल जैसे आक्रामक व्यक्ति के हाथ में देना चाहते, जो काम निकाल सके। बाद में उन्हें संवेदनशील चंद्र की जरूरत पड़ी, जो ग्राहक की जरूरत समझे। विवेक को एहसास हुआ-स्थितियाँ ही ग्रह को अच्छा या बुरा बनाती हैं। उन्होंने लोगों को आँकना बंद किया। स्थितियों का विश्लेषण करने और लोगों को समस्या के अनुरूप ढालने पर ध्यान दिया।

ज्योतिष में ग्रहों की आपसी स्थिति को बहुत महत्व दिया जाता है। कभी एक ग्रह दूसरे की शक्ति बढ़ाता है, कभी नकार देते हैं, कभी पूरा संयोग समग्र रूप से सकारात्मक या नकारात्मक प्रभाव डालता है। इसे "योग" कहते हैं, और इसकी समझ ने विवेक को टीम बनाने में मदद की। एकरूपता संभव नहीं थी। केवल रचनात्मक शुक्र या निर्लिप्त शनि वाली टीम आपदा लाती। विविधता जरूरी थी, पर टीम के भीतर गतिशीलता पर सावधानी से ध्यान देना पड़ता। आक्रामक मंगल को बेचैन केतु के साथ रखना आफत का नुस्खा था। आइडियाज के लिए रचनात्मक शुक्र चाहिए, पर उन्हें लागू करने के लिए व्यवस्थित बृहस्पति। वेंडर वार्ता के लिए बुद्धिमान और मीठी जुबान वाले बुध मददगार, और भीड़ नियंत्रण के लिए शक्तिशाली मंगल।

विवेक ने देखा कि उनकी सफलता बहुत हद तक उनकी "अवलोकन शक्ति"-लोगों, रिश्तों और परिस्थितियों को समझने की क्षमता पर निर्भर थी। अनजाने में, वे इंद्र बन रहे थे-आकाश के देवता, जिसके सौ नेत्र होते हैं। उनकी नजरों ने हर व्यक्ति की भूमिका तय करने, टीम का गठन करने, और यह तय करने में मदद की कि किसे कब लीडर बनाना है। उन्हें एहसास हुआ कि कोई सिद्ध कुंडली नहीं होती, जहाँ सभी ग्रह सही जगह हों। सब कुछ संदर्भ-आधारित और निरंतर बदलता रहता। कभी-कभी सारी सावधानियों को बावजूद चीजें गलत हो जातीं। ऐसे में, कोई न कोई उपाय लेकर आता-वह चालाक तरीका, जो ज्योतिषी किसी ग्रह को बुरे प्रभाव को काटने या संकट हल करने के लिए अपनी आस्तीन में छिपाए रखते हैं।

अपने संगठन को ग्रहों और तारों वाले आकाश के रूप में देखने की इस कल्पना के कारण, विवेक अपनी टीम के शनि, मंगल या केतु वालों से चिढ़ना बंद कर चुके थे। उन्हें हर एक में मूल्य मिलने लगा। एक स्थिति में राक्षस, दूसरी में देवता बन जाते। सामूहिकता की पूजा और विविधता का जश्न मनाना ही समझदारी थी।

ये थी विवेक की कहानी जिसने ये बताया कि सामूहिकता की पूजा और विविधता का जश्न मनाना ही बुद्धिमत्ता का कार्य है। जीवन में यही परस्पर सामूहिकता और सद्भाव हम लोगों के साथ बनाते हैं, और यही गृह भी हमें सिखाते हैं, यदि शनि आपके काम टाल रहा है तो वो आपको सब करना सिखा रहा है, शनि आपको उस वस्तु के लिए योग्य बनाना चाहता है। सूर्य का प्रबल होना आपके अंदर निडर और नेतृत्व करने का भाव लाता है।

चंद्रमा चाहता है कि आपका स्वभाव निर्मल और नरम रहे पर कभी कभी ऐसी परिस्थिति भी आएगी आपको मंगल की तरह ऊर्जावान होकर और कभी आक्रामक होकर आवाज उठानी होगी। ज्योतिष शास्त्र गुरुत्वाकर्षण की तरह है। आपके जीवन में इसके काम करने के लिए आपको इसमें विश्वास करने की आवश्यकता नहीं है।

देव टाक

ए.आई. द्वितीय वर्ष

## भाग्य या पुरुषार्थ



“करम प्रधान विश्व रचि राखा। जो जस करहि सो तस फल चाखा।।”

-रामचरितमानस, अरण्य काण्ड

यह दोहा स्पष्ट करता है कि जीवन में ज्योतिष या भाग्य से अधिक महत्त्व कर्म का है। व्यक्तिका भविष्य उसके कर्मों पर आधारित होता है, न कि सितारों की चाल पर।

क्या आपने कभी सोचा है कि आपकी किस्मत आपकी मेहनत से बनती है या आपके जन्म के समय लिखी गई होती है? यह सवाल हर उस इंसान के मन में उठता है जो अपने भविष्य को लेकर चिंतित होता है। एक तरफ है मेहनत-वह ईमानदार कोशिश, वो लगातार संघर्ष, जो असंभव को भी संभव बना देता है। दूसरी तरफ है ज्योतिष-एक प्राचीन विज्ञान जो बताता है कि ग्रहों और नक्षत्रों की चाल हमारे जीवन को किस तरह प्रभावित करती है। लेकिन सवाल यह है कि इनमें से कौन अधिक शक्तिशाली है?

कल्पना कीजिए, दो लोग एक ही लक्ष्य की ओर बढ़ रहे हैं। एक अपनी कुंडली देखकर हर कदम सोच-समझकर रखता है, शुभ मुहूर्त का इंतजार करता है, और अगर कुछ गलत हो जाए तो ग्रहों को दोष देता है। दूसरा अपने लक्ष्य पर नजर रखते हुए हर दिन पूरी मेहनत से जुटा रहता है, चाहे समय कैसा भी हो। सफलता किसके कदम चूमेगी? यकीनन उस इंसान की, जो मेहनत में विश्वास रखता है। क्योंकि मेहनत एकमात्र ऐसी चीज है जो किस्मत को भी झुकने पर मजबूर कर देती है।

लेकिन यह कहना भी सही नहीं होगा कि ज्योतिष का कोई महत्व नहीं। ज्योतिष सिर्फ भविष्य बताने का साधन नहीं, बल्कि आत्मविश्लेषण का एक तरीका भी हो सकता है। यह हमें यह समझने में मदद करता है कि हमारी स्वभावगत कमजोरियाँ क्या हैं, हम किस समय सतर्क रहें और कब अपने प्रयासों को गति दें। एक कुशल ज्योतिषी की सलाह कई बार एक ऐसे मोड़ पर दिशा दिखा सकती है, जहाँ हमें लगता है कि रास्ता खत्म हो गया है। बस शर्त यही है कि हम उसे एक गाइड की तरह देखें, न कि भाग्य का अंतिम सच मान लें।

अंत में, मेहनत और ज्योतिष को विरोधी नहीं, बल्कि पूरक के रूप में देखना चाहिए। मेहनत आपकी गाड़ी है और ज्योतिष अगर सही तरीके से उपयोग किया जाए तो एक नक्शा बन सकता है, पर गाड़ी चलाना आपको ही होगा।

“किस्मत भी उसी का साथ देती है, जो उसे मेहनत से जगाना जानता है। यह पंक्तिन सिर्फ प्रेरणा देती है, बल्कि यह भी दर्शाती है कि भाग्य निष्क्रिय नहीं, बल्कि कर्म से सक्रिय होता है। जब आप पूरे दिल से प्रयास करते हैं, तो खुद ब्रह्मांड भी आपके पक्ष में काम करने लगता है।

खुशी माथुर

सी. एस. द्वितीय वर्ष

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