

JNN

TECH HERTZ'23

NEWS LETTER

JUN 2023 - AUG 2023



**DEPARTMENT OF
Electronics and Communication
Engineering**

ABOUT



**J.N.N INSTITUTE OF
ENGINEERING
AUTONOMOUS**

NAAC 'A' Grade | Approved by AICTE | Affiliated to Anna University

- J.N.N Institute of Engineering has been at the forefront of imparting high-quality technical education in the state of Tamil Nadu. With state-of-the-art infrastructure in all branches of engineering, dedicated and qualified staff, a highly conducive environment for the teaching-learning process, and a lush green campus, J.N.N stands out as a professionally managed institution. The institute has consistently produced outstanding engineers who have excelled in their careers, occupying responsible positions in some of the best-known enterprises in India.
- Promoted by the Alamelu Ammaal Educational Trust, formed in memory of the Chairman's mother, J.N.N Institute of Engineering is located just 25 km away from the city of Chennai. It has well-connected routes frequented by city buses, making it accessible for students, staff members, the community, and visitors who enjoy the aesthetic view of the college with its green color shades.
- The institution provides university-level education through a wider and dynamic network, catering to the demands of both university-level education and the economic development of the region, with wider opportunities. The location and range of academic offerings at both UG and PG levels have lifted the intake capacity regionally and nationally. The infrastructural development also portrays enrollment growth.
- J.N.N strives to impart high patterns of discipline with futuristic techniques through dedicated staff members. It is a place for making students technologically superior and ethically strong. The environmentally friendly place of opportunities enhances skills and personal development. J.N.N has also signed Memorandums of Understanding with top-level industries and training providers to develop new skills and abilities.



VISION

- Cultivating innovative and entrepreneurial Electronics and Communication Engineering graduates to ethically address global challenges through quality teaching and learning practices.

MISSION

- To facilitate a state-of-the-art teaching-learning process, imparting comprehensive knowledge in electronics and communication engineering and related interdisciplinary areas.
- To foster a sense of curiosity, critical thinking and ethical practices in students, preparing them for a continuous learning.
- To instill innovative team work and industry collaboration for enhancing entrepreneurial skills, employability and research capabilities in graduates.

PROGRAMME OUTCOMES

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAMME EDUCATIONAL OBJECTIVES (PEO'S)

PEO 1: Our graduates will have skills to become successful in academics, industries, or as entrepreneurs.

PEO2: Our graduates with a research inclination will be solving various complex social issues using advanced tools and technologies.

PEO3: Our graduates will practice engineering with ethics, human values, and environmental consciousness.

PROGRAMME SPECIFIC OBJECTIVES (PSO)

PSO1: Analyse and develop solutions in domains like IOT, Embedded, VLSI and other emerging technologies.

PSO2: Understand and architect wired and wireless analog and digital communication systems and products.

LEADERSHIPS

CHAIRMAN



Shri. S. Jayachandran B.Sc., B.L
Founder & Chairman,
J.N.N Group of Institution.

We are committed in opening up high quality tertiary education to students and to provide opportunity to acquire, understand and apply disciplinary and inter-disciplinary knowledge as well as related skills and attitudes, to think rationally and to enhance their personal development. Situated in the capital city of Tamil Nadu, our college bridges the education and values in its relationship with business, government, research organizations and universities. I would like to reaffirm my sincere personal commitment to help each of you to succeed your academic endeavors. I would like to reaffirm our sincere personal commitment to help each to succeed in your academic endeavors. I heartily welcome our students and wish them the very best for a successful and glorious future.

VICE CHAIRMAN



Mr. Naveen Jayachandran
Vice-Chairman,
J.N.N Group of Institutions.

Our motto, “Learning Today. Leading Tomorrow”, permeates every aspect and activity at J.N.N. Over the past 12 years, J.N.N Institute of Engineering has successfully imbibed several of the proven best practices from the best of engineering institutions around the world, adapted them to make them better suited to the ground realities and introduced many of its own innovations in engineering education. Together, these have ensured that an educational experience at J.N.N Institute of Engineering is truly transformational for thousands of aspiring young transformational for thousands of aspiring J.N.N Institute of Engineering. has been very proactive in recognizing the global and national trends in shift in the technical landscape and has been pioneering several innovations in technical education.

PRINCIPAL



Dr. K. Ganesan

At J.N.N Institute of Engineering, we believe in providing the best learning experience through an experiential learning process that has been devised and drawn up by the management, faculty members, and administrators together. We have a common purpose mindset and language that permeates throughout the whole institution, and we are guided by four key principles:

- Assure the best learning outcomes through strategic planning.
 - Create seamless service through engineered operational quality
 - Build a strong relationship among the stake holders.
 - Delight the stakeholders with personalized care of service quality.
- We are delighted to offer our services to prospective students and other stakeholders. The management, faculty members, and staff are committed to contributing significantly to the growth and support of our students to help them reach the zenith of their prospective professional career and personal life. We are always here to address your queries and provide you with the best education possible.

HEAD OF THE DEPARTMENT




Dr. D. Joseph Jeyakumar

Dear Students, Faculty, and Readers, It is my pleasure to share updates and achievements from the Department of Electronics and Communication Engineering (ECE). Our Department continues to uphold its commitment to academic excellence, innovative research, and fostering a vibrant learning environment. Thank you for your continuous support and enthusiasm together, we can achieve greater heights

**“INNOVATION IS THE ABILITY TO SEE THE
CHANGE AS AN OPPORTUNITY – NOT A THREAT”
-STEVE JOBS**

LIST OF FACULTY

S.NO	NAME OF THE FACULTY	QUALIFICATON	DESIGNATION
1.	Dr. D. Joseph Jeyakumar	M.E, PhD	Professor
2.	Mr. U. Siddharth Nambi	M.E	Associate Professor
3.	Mrs. R. Nithya	M.E	Assistant Professor
4.	Mr. M. Mariselvam	M.E	Assistant Professor
5.	Mrs. N. Malathy	M.E	Assistant Professor
6.	Mrs. P.B. Smitha	M.E	Assistant Professor
7.	Mr. K.T. Pannerselvam	M.E	Assistant Professor
8.	Mrs. Mullaikodi	M.E	Assistant Professor
9.	Mr. G. Ayyapan	M.E	Assistant Professor



10.	Dr. J. Vijay Anand	M.TECH, PhD	Associate Professor
11.	Mr. J. Praveen Kumar	M.E	Assistant Professor
12.	Ms. B. Shanmathi	M.E	Assistant Professor

1. FOOD FEAST FOR HOSTELLERS :

DATE: 30th December 2023



**J.N.N INSTITUTE OF
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NAAC 'A' Grade | Approved by AICTE | Affiliated to Anna University

**NAAC
GRADE A**
Accredited Campus

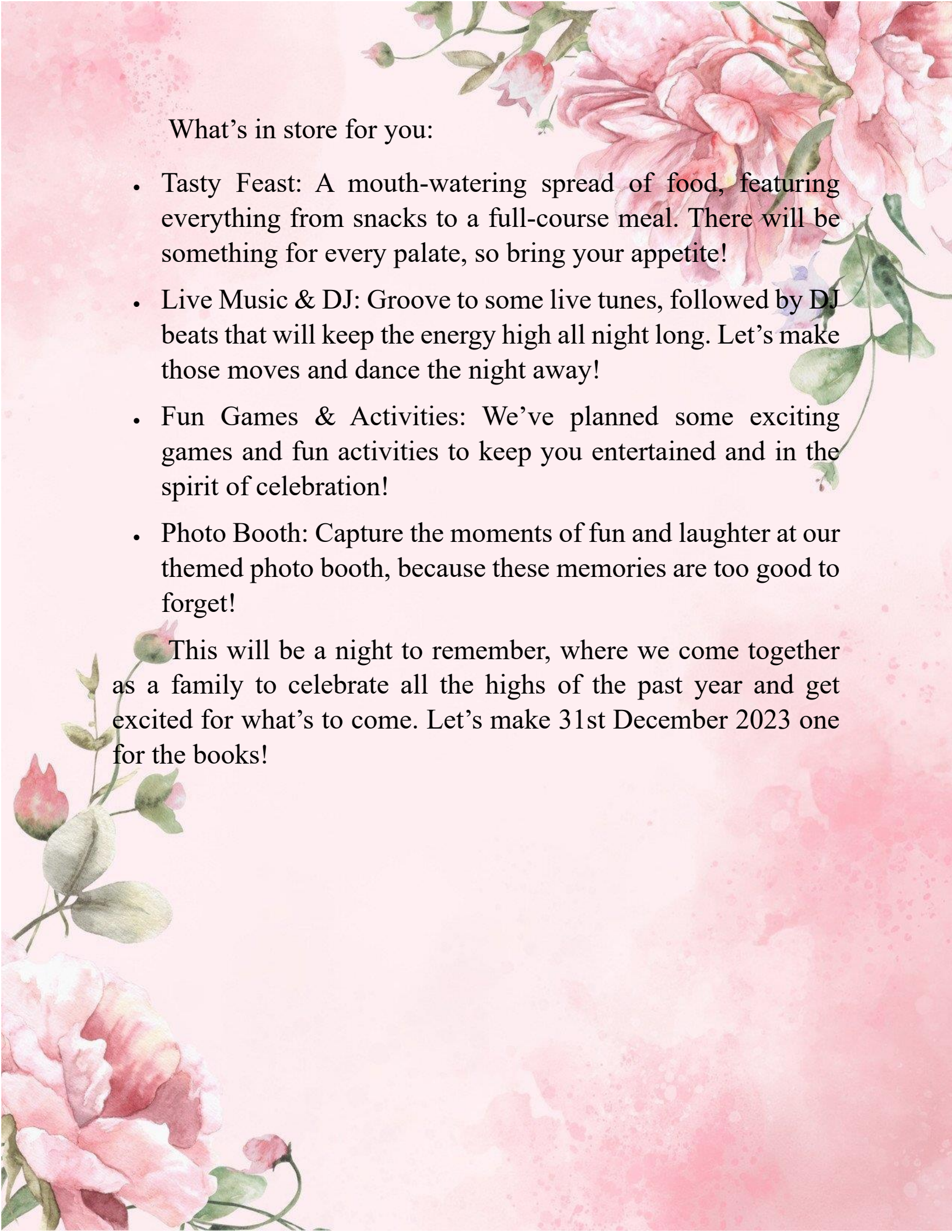
NBA
National Board of Accreditation

Dear Hostellers,
Join us
as we ring in the
NEW YEAR
with a spectacular
Food Feast & Music!

Time : 12:30 PM
Venue : Annapurna Food Court

www.jnn.edu.in

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What's in store for you:

- Tasty Feast: A mouth-watering spread of food, featuring everything from snacks to a full-course meal. There will be something for every palate, so bring your appetite!
- Live Music & DJ: Groove to some live tunes, followed by DJ beats that will keep the energy high all night long. Let's make those moves and dance the night away!
- Fun Games & Activities: We've planned some exciting games and fun activities to keep you entertained and in the spirit of celebration!
- Photo Booth: Capture the moments of fun and laughter at our themed photo booth, because these memories are too good to forget!

This will be a night to remember, where we come together as a family to celebrate all the highs of the past year and get excited for what's to come. Let's make 31st December 2023 one for the books!

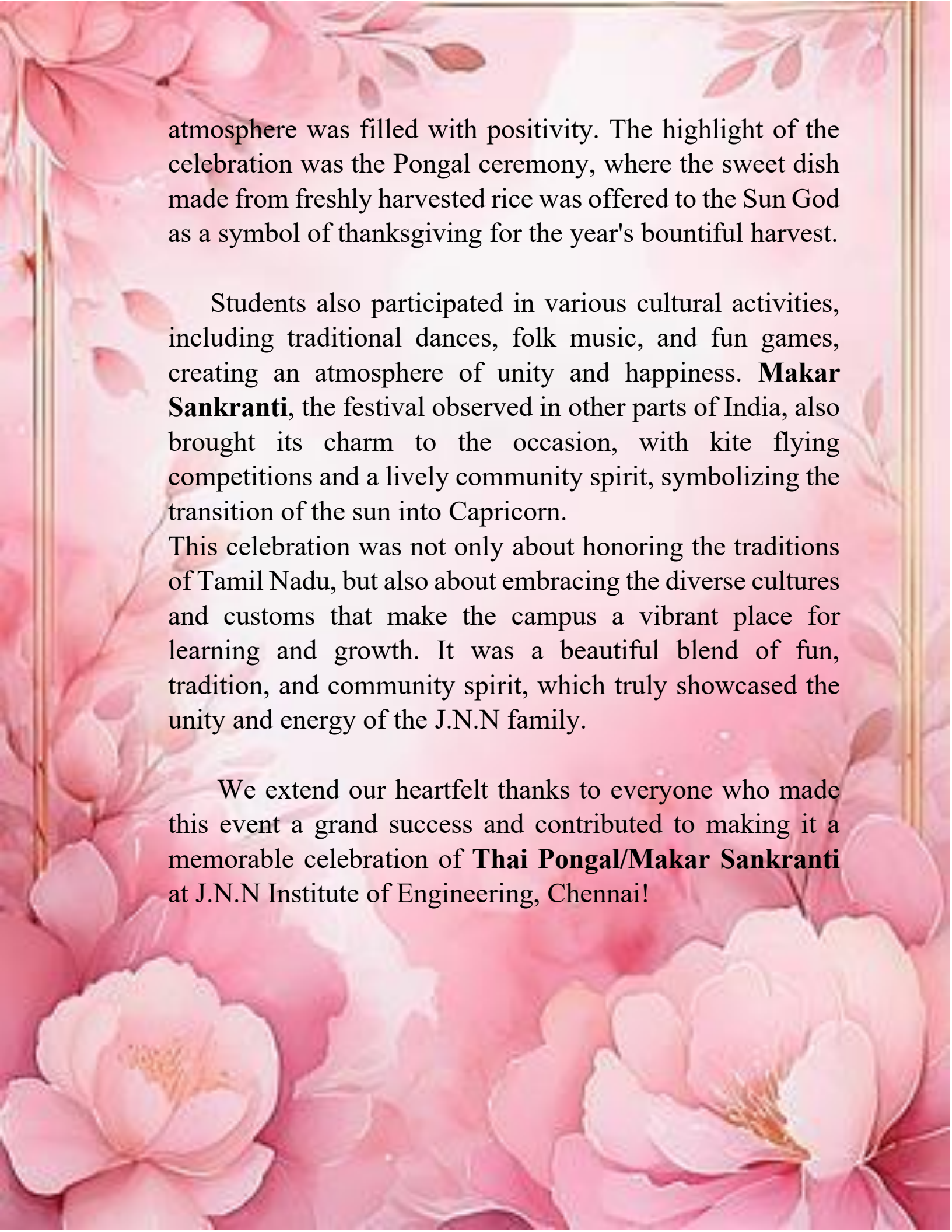
2. PONGAL CELEBRATION:

DATE:12th JANUARY 2024.



We are excited to share the vibrant celebration of Thai Pongal at J.N.N Institute of Engineering, Chennai, where the spirit of gratitude, prosperity, and cultural unity was in full swing! This festival, which marks the harvest season, is celebrated with great enthusiasm and reverence, bringing the entire campus together in a colorful display of tradition and joy.

The day kicked off with an early morning prayer to honor the Sun God, marking the start of the festival. The students and faculty worked hand in hand to decorate the campus with beautiful kolams (traditional Indian patterns), and the



atmosphere was filled with positivity. The highlight of the celebration was the Pongal ceremony, where the sweet dish made from freshly harvested rice was offered to the Sun God as a symbol of thanksgiving for the year's bountiful harvest.

Students also participated in various cultural activities, including traditional dances, folk music, and fun games, creating an atmosphere of unity and happiness. **Makar Sankranti**, the festival observed in other parts of India, also brought its charm to the occasion, with kite flying competitions and a lively community spirit, symbolizing the transition of the sun into Capricorn.

This celebration was not only about honoring the traditions of Tamil Nadu, but also about embracing the diverse cultures and customs that make the campus a vibrant place for learning and growth. It was a beautiful blend of fun, tradition, and community spirit, which truly showcased the unity and energy of the J.N.N family.

We extend our heartfelt thanks to everyone who made this event a grand success and contributed to making it a memorable celebration of **Thai Pongal/Makar Sankranti** at J.N.N Institute of Engineering, Chennai!

3.FITNESS CENTER:

DATE:7th March 2024.



We are thrilled to announce the inauguration of J.N.N Fitness Hub—a place where wellness, strength, and community come together! To mark this exciting occasion, we're kicking off with a beautiful blend of spiritual rituals and celebration.



Inauguration Highlights:

- Pooja Ceremony: A sacred start to this new journey, invoking blessings for success, health, and prosperity.
- Ganapati Homam: A special prayer for the removal of obstacles and a smooth path ahead.
- Navagraha Homam: A powerful ritual to align the cosmic energies and ensure harmony in the new space.

These auspicious ceremonies will lay the foundation for a space that nurtures both the body and the spirit. We invite you to witness these wonderful moments and feel the positive vibes that will guide us into this exciting new chapter.

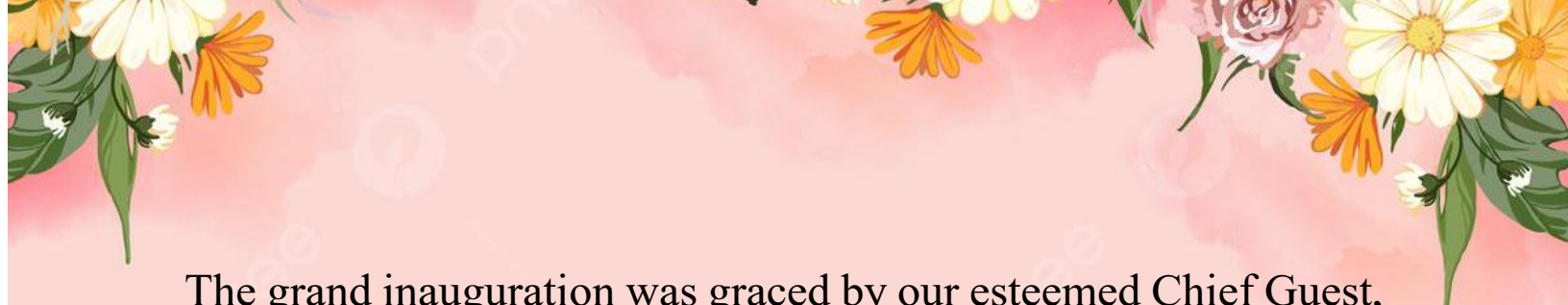
4.AMPHITHEATRE'S GRAND INAGURATION:

DATE:20th March 2024

Grand Inauguration of Ashok Kumar Amphitheatre at J.N.N Group of Institutions.





We are thrilled to announce the successful inauguration of the *Ashok Kumar Amphitheatre* at J.N.N Group of Institutions, marking a monumental milestone in our campus's development. The event, held on [insert date], was a splendid celebration of culture, creativity, and innovation, drawing attention to the institution's dedication to providing world-class facilities for our students.



The grand inauguration was graced by our esteemed Chief Guest, Mr. Udaya Sankar, National Lead at NASSCOM, who honored us with his presence and insightful speech. In a symbolic gesture of the new era, Mr. Sankar officially opened the Amphitheatre by cutting the ceremonial ribbon, setting the tone for an exciting future ahead. His words of encouragement resonated deeply with our students, faculty, and guests, emphasizing the importance of innovation, collaboration, and cultural enrichment in today's educational landscape.

The Amphitheatre, designed to be a hub for cultural and academic events, is a testament to the growing stature of J.N.N Group of Institutions. With its state-of-the-art infrastructure and breathtaking architecture, the space offers a perfect setting for performances, seminars, workshops, and much more. This is just one of the many ways our institution strives to enhance the holistic development of students and foster an environment of creativity and intellectual growth.






The event was further enhanced by an array of captivating cultural performances by our talented students. From electrifying dance routines to soul-stirring musical performances, the Amphitheatre came alive with energy and enthusiasm, showcasing the immense talent within our community. These performances not only entertained the audience but also symbolized the spirit of unity, diversity, and the relentless pursuit of excellence that defines J.N.N Group of Institutions.

We are immensely proud of our students for their outstanding performances and the seamless organization of the event. The inauguration of the Ashok Kumar Amphitheatre is just the beginning of a new chapter in our journey, and we look forward to hosting many more events that will continue to inspire and empower our students.

A big thank you to everyone who contributed to making this event a resounding success. Let us continue to work together in shaping a brighter future for our institution and our students.

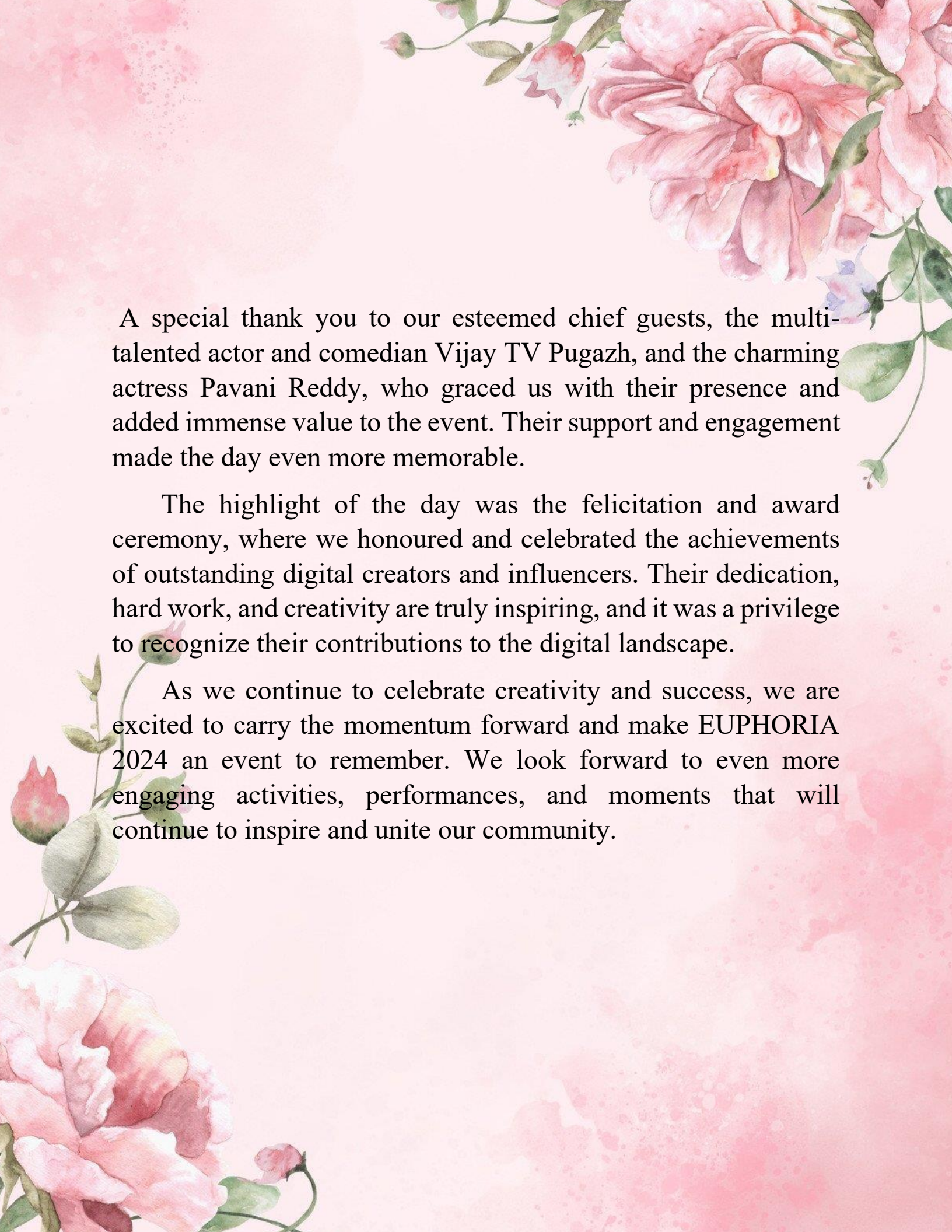


4.CULTURALS EVENT:

DATE:28th March 2024.



We are thrilled to share that Day 3 of EUPHORIA 2024 was an overwhelming success, marked by an exciting lineup of events that brought energy and creativity to the forefront! The day was filled with enthusiasm, and we are proud to have hosted a celebration of talent and innovation.



A special thank you to our esteemed chief guests, the multi-talented actor and comedian Vijay TV Pugazh, and the charming actress Pavani Reddy, who graced us with their presence and added immense value to the event. Their support and engagement made the day even more memorable.


The highlight of the day was the felicitation and award ceremony, where we honoured and celebrated the achievements of outstanding digital creators and influencers. Their dedication, hard work, and creativity are truly inspiring, and it was a privilege to recognize their contributions to the digital landscape.

As we continue to celebrate creativity and success, we are excited to carry the momentum forward and make EUPHORIA 2024 an event to remember. We look forward to even more engaging activities, performances, and moments that will continue to inspire and unite our community.

4.THE INAUGURATION OF INSTITUTE OF GREEN ENGINEERS:



We are thrilled to announce the grand inauguration of the *Institute of Green Engineers (IGEN)* at our campus on 16th April 2024. This marks a monumental step towards empowering our community with the tools, knowledge, and networks to drive sustainability and environmental stewardship.



The event was honoured by the presence of distinguished leaders in the field of green engineering and sustainability, including:

- Dr. L. Ramesh, President of *The Institution of Green Engineers* and Member of the UN High-Level Political Forum on Sustainable Development.
- Dr. Suresh Seetharaman, Chairman of the IGEN-SAP Program.

As part of the ceremony, we are pleased to announce that Shri Naveen Jayachandran, our Vice Chairman, received the prestigious IGEN-Institution Membership Certificate, recognizing our institution's commitment to the green engineering movement.

Moreover, United Nations 17 SDG Faculty and Student Coordinators were appointed to lead the efforts in promoting sustainability goals across our campus, ensuring that we are aligned with the global agenda for a better and more sustainable future.

This momentous occasion marks the beginning of a new chapter in our commitment to green engineering and sustainability. The inauguration ceremony was a proud moment for everyone involved, and we are excited about the potential of the Institute of Green Engineers in fostering innovations for a sustainable future.



EDITORIAL BOARD

Academic Year	Editorial Members
JUNE 2024- NOV 2024	Faculty Coordinators: Ms. S. Sowmya Student's Convenors: 1. Abirami. A, 4 th year 2. Imran. U, 3 rd year 3. Shamuvel. V, 2 nd year