

# TECH ANANTH

Volume 3 Issue 1

... infinite technology

**P30 JNTUA NEWS**

University Students & Faculty Members witness Live Webcast of Launching of Viksit Bharat @ 2047 by Hon'ble PM of India



**JNTUA NEWS P34**

JNTUA Colleges Host Sports Festival 'Aadudam Andhra'



**P29 ALUMNI NEWS**

Lifetime Achievement Award for Prof. N. Ramesh Babu 1978 Batch Alumnus of CEA

**STUDENT ACHIEVEMENT P34**

Ms. Y .Yamini Yadav of JNTUA CEA selected for Republic Day Camp @ New Delhi

**COVER STORY P16**

## UNIVERSITY AWARDS 2023 JNTUA Honors Teachers



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1	The Mathematical Pulse: Powering Recent Innovations Across Fields	4
2	Satyendra Nath Bose: A Pioneer in Physics and the Quantum World	8
3	The Glory of Ancient Indians in Science	11
4	Amazing facts of 369	13
5	University Awards 2023 Presentation Ceremony. - <i>Cover Story.</i>	16
6	JNTUA to confer Honoris Causa on Prof. K. Balaveera Reddy at XIII Convocation. - <i>News from JNTUA.</i>	23
7	Report on Placement Drive @ JNTUA CEA. - <i>Report from JNTUA CEA.</i>	24
8	Awareness Program - World AIDS Day @ JNTUA OTPRI. - <i>News from JNTUA OTPRI.</i>	26
9	One -Week FDP “Exploring the Cutting – Edge World of Chip Design” by Department of ECE, JNTUA CEA. - <i>News from JNTUA CEA.</i>	26
10	Career Conference on Preparation for Competitive Examinations by Department of Employment & Training, Government of Andhra Pradesh. - <i>News from JNTUA CEA.</i>	27
11	JNTUA CEA Students Participate in 2K Run for Voter’s Education. - <i>News from JNTUA CEA.</i>	28
12	Lifetime Achievement Award for Prof. N. Ramesh Babu 1978 Batch Alumnus of CEA. - <i>Alumni News</i>	29
13	‘Viksit Bharat @ 2047-Voice of Youth’ webcast @ JNTU Anantapur, Ananthapuramu. - <i>News from JNTUA.</i>	30
14	New Executive Committee for Teaching Association JNTUA CEA. - <i>News from JNTUA CEA.</i>	31
15	Late Sri Amarajeevi Potti Sriramulu Birth Anniversary Celebrations @ JNTUA. - <i>News from JNTUA.</i>	31
16	Fresher’s Day 2023 Celebrations @ School of Management Studies, JNTUA. - <i>News from JNTUA.</i>	32
17	Compassionate Ground Appointments @ JNTUA. - <i>News from JNTUA.</i>	33
18	Ms. Y .Yamini Yadav NSS Volunteer of JNTUA CEA selected for Republic Day Camp @ New Delhi. - <i>News from JNTUA CEA.</i>	34
19	JNTUA Colleges Host Sports Festival ‘Aadudam Andhra’ - <i>News from JNTUA.</i>	34
20	IIBE, Mumbai Student Chapter Inaugurated @ Department of Civil Engineering, JNTUA CEA, Ananthapuramu. - <i>News from JNTUA CEA.</i>	35
21	JNTUA CEK, Kalikiri Granted Academic Autonomy. - <i>News from JNTUA CEK.</i>	36
22	News from Colleges	37
23	Important National and International Days in December	38
24	“Educating the Heart” - <i>Message from the Chairman APSCHE</i>	39

# The Mathematical Pulse: Powering Recent Innovations Across Fields

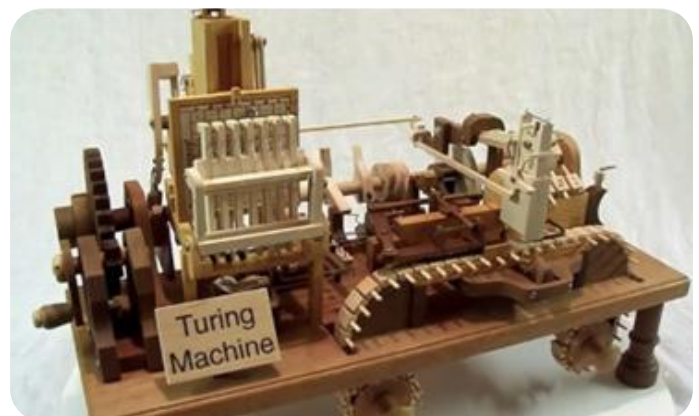
*Unveiling the Universal Impact of Mathematics on Modern Advancements*

- Dr E Keshava Reddy

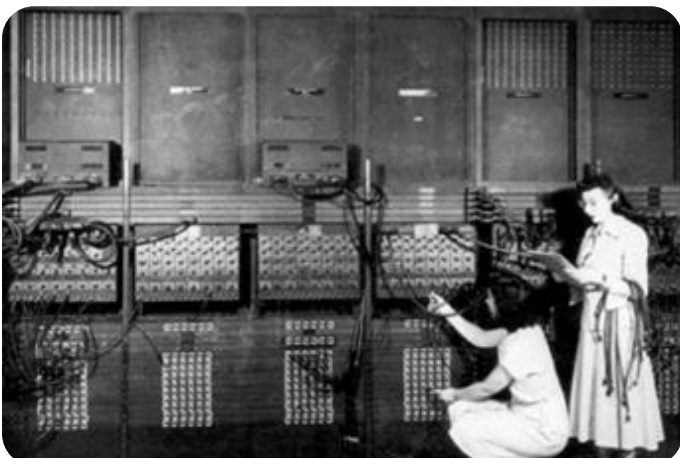
Think of math and computers like two old friends who've been through everything together. From the earliest days when computers were just ideas in someone's mind, math has been right there, helping to make those ideas real. From the conceptual foundations of algorithms to the intricacies of artificial intelligence, the historical journey of these disciplines intertwines seamlessly, each propelling the other to new heights.

As we take a tour of this journey, we see that in the early 19<sup>th</sup> century, the concept of a general-purpose computing machine was conceived by Charles Babbage. However, it was Ada Lovelace, a mathematician and visionary, who foresaw the potential of mathematics in programming. Lovelace's notes on Babbage's Analytical Engine include what is now considered the world's first computer program. This marks the nascent stages of a relationship where mathematical thinking was integral to the very inception of computing. As computers began to evolve, the need for systematic problem-solving became evident. Alan Turing, a mathematician and logician, introduced the idea of a theoretical computing machine – the Turing Machine – which could simulate any algorithmic computation. Turing's work laid the foundation for the study of algorithms, making mathematics an indispensable part of computer science. The famous Halting Problem, formulated by Turing, demonstrates the limits of computation and the intricacies of algorithmic decision-making.

Advancements in computer science necessitated a way to communicate effectively with computers. Mathematical logic, particularly George Boole's algebraic system, became the language for expressing logical relationships in computer circuits. Alonzo Church and Alan Turing's work on formal languages and automata theory laid the groundwork for programming languages and compiler design. This mathematical formalism became the bridge between human-readable code and machine-executable instructions. The relationship between mathematics and computer science became more evident as computers transitioned from mere calculators to problem-solvers. Numerical analysis, a branch of mathematics, found practical application in solving mathematical problems using computational methods. For instance, the famous example of the Mandelbrot set demonstrates how computers can visualize intricate mathematical concepts, revealing the aesthetic beauty that arises from the intersection of mathematics and computation.



Slowly, the collaboration between mathematics and computer science has ushered in a new era of technological innovation, where these disciplines converge to address complex challenges and unlock unprecedented possibilities. In exploring modern case studies, we witness the dynamic impact of this partnership across diverse fields, showcasing how mathematical principles breathe life into the algorithms and technologies that define our contemporary world. In the epoch of technological marvels,



the ascendancy of Artificial Intelligence (AI) and Machine Learning (ML) stands as a testament to the unparalleled significance of mathematics. As the guiding force behind the intricate algorithms and models that power these transformative technologies, mathematics emerges not just as a tool but as the very bedrock upon which the future unfolds.

## Unlocking the Potential of Deep Learning

The recent surge in AI breakthroughs, especially in the domain of deep learning, exemplifies the profound impact of mathematics. Deep neural networks, the vanguard of AI innovation, delve into the realms of calculus, linear algebra, and probability theory with unprecedented depth. The mathematical intricacies embedded in these architectures empower machines to emulate human-like cognitive processes, leading to unprecedented achievements in image recognition, natural language processing, and complex problem-solving.

## Mathematics as the Language of Precision

In the quest for precision, mathematics emerges as the indispensable language of AI and ML. Precision in algorithms, precision in modelling relationships, and precision in predictions all hinge on the rigour and exactitude that mathematics brings to the table. Whether navigating the intricacies of quantum mechanics or orchestrating the elegance of statistical distributions, mathematics ensures that AI systems operate not just efficiently, but with a level of precision that defines the boundary between success and failure.

## Enabling Innovation Beyond Boundaries

The relationship between mathematics and AI doesn't merely cater to current demands; it lays the groundwork for unprecedented innovation. As researchers explore the uncharted territories of quantum computing, symbolic reasoning, and interdisciplinary collaborations, mathematics stands as the compass guiding the trajectory of AI advancements. The symbiosis between mathematical principles and AI capabilities opens the door to unimagined possibilities, fostering a landscape where the limits of



## Formulating Complex Algorithms

Mathematics provides the conceptual underpinning for the algorithms that drive AI and ML. At the core, these algorithms embody intricate mathematical models that encapsulate the essence of data relationships. Concepts from linear algebra, calculus, and differential equations become the architects of intelligent systems, enabling them to decipher patterns, make predictions, and evolve with newfound knowledge.



Consider linear algebra's role in representing data through matrices – an elegant framework for manipulating information that transcends the limitations of traditional arithmetic. Calculus, with its ability to optimize and fine-tune parameters, breathes life into machine learning models, allowing them to adapt and refine their understanding over time.



innovation are only bounded by the limits of mathematical imagination. The future promises even more exciting ventures at the confluence of mathematics and computer science, with quantum computing leading the charge. Quantum algorithms, grounded in the principles of linear algebra and quantum mechanics, hold the potential to revolutionize computation in ways previously thought impossible.

The below case studies beautifully explain how mathematics has played a vital role in enhancing the technology that makes our everyday lives better:

### Healthcare : Precision Medicine and Predictive Analytics

In the realm of healthcare, mathematics plays a pivotal role in tailoring treatment strategies through precision medicine. Machine learning algorithms, rooted in statistical modelling, analyze vast datasets to identify patient-specific patterns and predict optimal treatment outcomes. Predictive analytics, employing mathematical models, assist healthcare professionals in forecasting disease trends, optimizing resource allocation, and personalizing patient care.

### Predictive Modeling in Disease Outbreaks

Mathematical models and simulations are employed to predict the spread of infectious diseases, guiding public health interventions and resource allocation during outbreaks. This was notably demonstrated during the COVID-19 pandemic, where mathematical modelling played a crucial role in informing public health policies and mitigating the impact of the virus.



Tech ANANTH Volume 3, Issue I, Pages 40

### Algorithmic Trading and Risk Management

In the financial sector, the integration of mathematics and computer science is exemplified by algorithmic trading and risk management strategies. Quantitative models, driven by mathematical algorithms, analyze market trends and execute trades at speeds beyond human capability. Risk management algorithms, utilizing statistical methods and optimization techniques, enhance financial institutions' ability to assess and mitigate risks in real time.

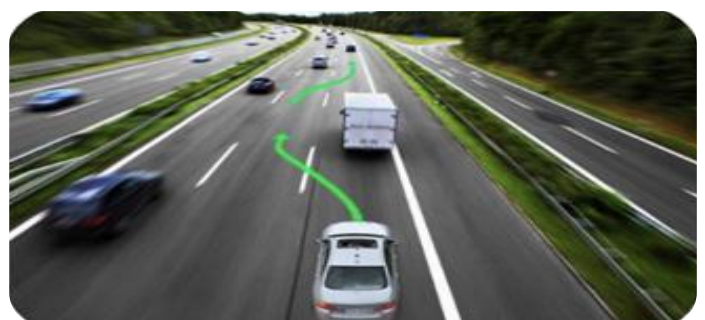


### High-Frequency Trading

High-frequency trading relies on complex algorithms and mathematical models to make rapid trading decisions in milliseconds. These algorithms, often based on statistical arbitrage and machine learning, leverage mathematical analysis of market data to identify fleeting opportunities and execute trades at speeds unattainable through traditional human-driven strategies.

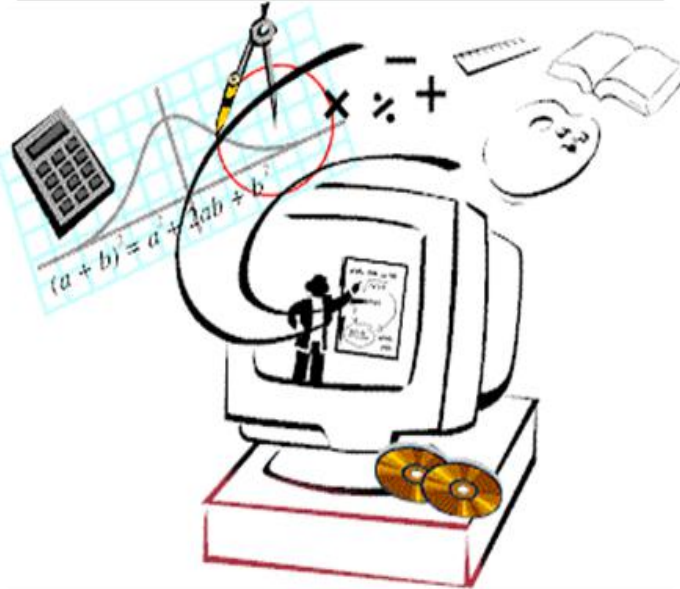
### Transportation: Route Optimization and Autonomous Vehicles

In the transportation sector, mathematics contributes to route optimization algorithms that streamline logistics and improve efficiency. Moreover, the development of autonomous vehicles relies on mathematical models for navigation, obstacle detection, and decision-making.



## Uber's Dynamic Pricing

Uber utilizes mathematical algorithms for dynamic pricing, adjusting ride fares based on real-time demand and supply. This adaptive pricing strategy, rooted in mathematical optimization, not only maximizes revenue for the platform but also ensures efficient allocation of rides during peak demand, benefiting both riders and drivers.



## Environmental Science : Climate Modeling and Sustainability

Mathematics and computer science are instrumental in addressing environmental challenges, particularly in climate modelling and sustainable resource management. Mathematical models simulate complex environmental systems, aiding scientists in understanding climate patterns, predicting environmental changes, and formulating strategies for sustainable development.

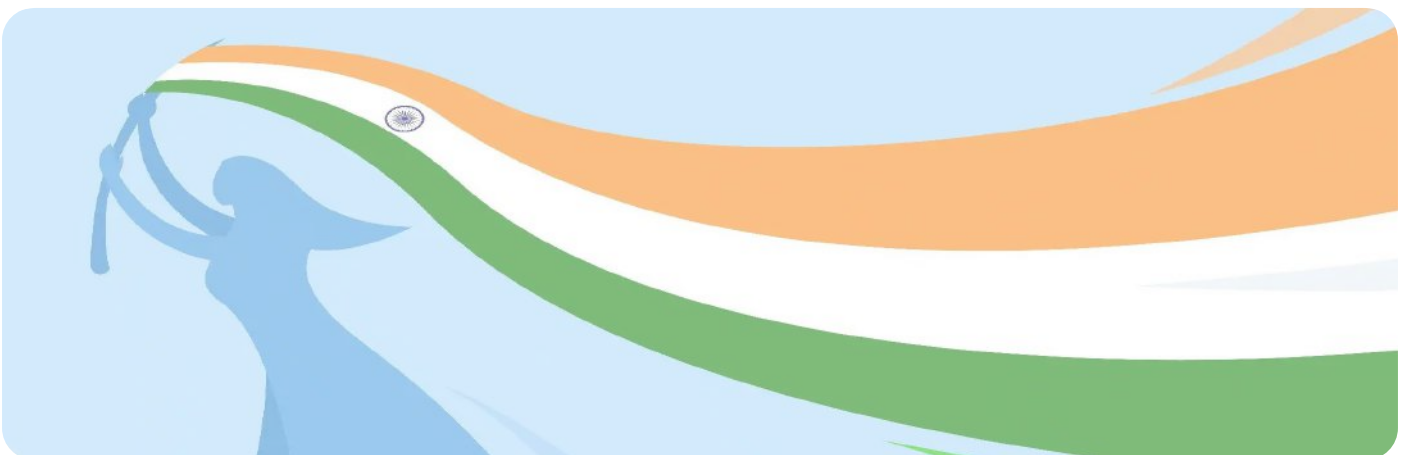
## Climate Modeling for Renewable Energy Integration

Mathematical models are employed to assess the feasibility of integrating renewable energy sources into existing power grids. These models consider variables such as weather patterns, energy demand, and infrastructure constraints, facilitating the optimal deployment of renewable energy technologies and supporting the transition to sustainable energy systems.

## About the Author



Prof. E. Keshava Reddy is a Professor of Mathematics at JNTUA College of Engineering Anantapur and presently serving as the Director of Evaluation at JNT University Anantapur. He has written books on Mathematics which will not only improve the knowledge of engineering students and help students to improve their research capabilities in Mathematics. His Modular Object-Oriented Dynamic learning Environment (Moodle) site is <http://keshava.moodlecloud.com> or <https://keshava.moodle.school>, through which he teaches Mathematics to B.Tech. and M.Tech. students online. He is guiding young minds to achieve their research goals in the field of Mathematics.



## Introduction

Satyendra Nath Bose, born on January 1, 1894, in Calcutta (now Kolkata), India, was a prominent Indian physicist whose pioneering contributions to the field of theoretical physics left an indelible mark on scientific history. Known for his collaboration with Albert Einstein in the development of Bose-Einstein statistics and the Bose-Einstein condensate, Bose's work has significantly influenced the understanding of the fundamental nature of matter.

## Early Life and Education

Satyendra Nath Bose was born into a middle-class Bengali family. His father, Surendranath Bose, worked as a senior officer in the Engineering Department of the East India Railway. Bose's early education took place in Calcutta, where he attended the Hindu School and later studied at the Presidency College. From a young age, Bose displayed an exceptional aptitude for mathematics and physics, earning him academic recognition among his peers.

In 1913, Bose graduated with honors in mixed mathematics, securing the top position in the university. Following this success, he pursued higher education and earned his M.Sc. degree in 1915. His master's thesis, titled "Planck's Law and Light Quantum Hypothesis", showcased his early interest in theoretical physics and laid the foundation for his future research endeavours.

## Academic Career

After completing his studies, Bose embarked on an academic career that would span several decades. In 1916, he joined the University of Calcutta as a research scholar. During this time, he continued to delve into theoretical physics and established himself as a promising young scientist. Bose's early research primarily focused on the theory of radiation and the properties of blackbody radiation.

In 1921, Bose published a milestone paper titled "Planck's Law and the Hypothesis of Light Quanta," where he sought to reconcile Max Planck's quantum theory with the classical theory of electromagnetic radiation. This paper not only demonstrat-

ed Bose's intellectual prowess but also garnered attention from the global scientific community.

## Bose's collaboration with Einstein

One of the most significant chapters in Satyendra Nath Bose's scientific journey unfolded when he sent his work to Albert Einstein in 1924. At that time, Einstein had already made groundbreaking contributions to the field of physics, including the theory of relativity. Bose's work on statistical mechanics and the quantum theory of gases caught Einstein's attention.

Einstein, impressed by Bose's work, translated his paper from English to German and submitted it to the prestigious *Zeitschrift für Physik* (Journal of Physics) for publication. The paper, titled "Planck's Law and the Hypothesis of Light Quanta," laid the foundation for what would later be known as Bose-Einstein statistics.

Despite the language barrier between Bose and Einstein, the two scientists established a fruitful and collaborative correspondence. Their exchange of ideas and insights marked the beginning of a scientific partnership that would significantly impact the course of theoretical physics.

## The Bose-Einstein Statistics

In 1924, Einstein recognized the importance of Bose's work and extended it to formulate a new statistical ensemble now known as Bose-Einstein statistics. This statistical approach provided a theoretical framework for understanding the behaviour of certain types of particles, which would later be named "bosons" in honour of Satyendra Nath Bose. Unlike fermions, which obey Fermi-Dirac statistics and follow the Pauli exclusion principle, bosons can occupy the same quantum state.

The significance of Bose-Einstein statistics became evident in explaining the behaviour of particles at extremely low temperatures. These statistics played a crucial role in understanding phenomena like superfluidity and superconductivity, revolutionizing the field of condensed matter physics.





**Satyendra Nath Bose**

### The Bose-Einstein Condensate

One of the consequences of Bose-Einstein statistics is the prediction of a unique state of matter known as the Bose-Einstein condensate (BEC). This exotic state occurs at temperatures close to absolute zero, where a collection of bosons occupies the same quantum state, forming a macroscopic quantum entity. While the Bose-Einstein condensate was experimentally realized many years later in 1995 by Eric Cornell, Carl Wieman, and Wolfgang Ketterle, Bose's theoretical contributions laid the base for this radical discovery.

Satyendra Nath Bose's contributions to theoretical physics did not go unnoticed. In 1926, he was appointed as the Khaira Professor of Physics at the University of Dhaka (now in Bangladesh). Throughout his career, Bose received several honours and awards, including the Padma Vibhushan, India's second-highest civilian award, in 1954.

In addition to his academic pursuits, Bose played an active role in promoting scientific research and education in India. He served as the President of the Indian Physical Society and the National Institute of Sciences of India, contributing to the development of scientific institutions in the country.

### Recognition and Honors

As Bose continued to make significant contributions to theoretical physics, he also became known for his engaging and charismatic personality. Colleagues and students often recounted anecdotes that highlighted Bose's wit, humour, and approachability.

- Bose was known for his simplicity and indifference to material possessions. On one occasion, when he was invited to a prestigious event where academic robes were expected, Bose showed up in his usual attire, expressing his belief that one's intellect should take precedence over external appearances. This unconventional act showcased his disregard for superficial formalities.



### Anecdotes from Bose's Later Years

- Bose shared a professional camaraderie with fellow Indian physicist Sir C.V. Raman, who was known for his distinctive headgear. Bose once humorously remarked, "We have to take our hats off to Raman, even if he doesn't take his off to us!" This playful comment reflected Bose's ability to inject humour into scientific discussions.

- Bose was renowned for his engaging and straightforward teaching style. In a class, when a student asked a complex question, Bose replied, "I have been teaching for a long time, and during all these years, you are the first person to ask such a difficult question. Now I'll have to think about the answer!" This witty response not only lightened the atmosphere but also emphasized the importance of thoughtful inquiry.

- Bose was known for his approachability and willingness to engage with students. During a lecture, a student asked a question that Bose found par

ticularly interesting. Instead of answering directly, he replied, “Why don’t you think about it and let me know? I’m curious to hear your solution.” This encouragement of independent thought was characteristic of Bose’s teaching philosophy.

- In a gathering of scholars and academics, Bose once remarked, “Titles do not honour men; men honour titles.” This witty observation underscored his belief in the substance of one’s contributions rather than the formalities associated with academic or social titles.

- Bose’s preference for simplicity extended to his lifestyle. He once humorously commented, “I have everything I need, and nothing that I don’t need.” This remark captured his contentment with a modest life and reflected his focus on the essentials.

These anecdotes not only showcase Satyendra Nath Bose’s intellectual brilliance but also highlight his warmth, humility, and sense of humour. His ability to blend serious scientific discussions with moments of levity contributed to the collegial and collaborative atmosphere in which he thrived. Bose’s wit and humour, combined with his scientific achievements, continue to make him a revered figure in the annals of physics.

## Legacy and Impact

Satyendra Nath Bose passed away on 4<sup>th</sup> February, 1974 and his legacy extends far beyond his pioneering work in theoretical physics. His collaboration with Einstein and the formulation of Bose-Einstein statistics fundamentally changed the way scientists understand the behaviour of particles at the quantum level. The discovery of the Bose-Einstein condensate, a phenomenon predicted by Bose’s theoretical framework, opened new avenues for research in the field of ultra-cold physics.

Bose’s influence is also evident in the naming of subatomic particles. Bosons, which include particles like the photon and the Higgs boson, are named in recognition of Satyendra Nath Bose’s contributions to the field. The term “Boson” has become a ubiquitous part of the vocabulary in particle physics.

Satyendra Nath Bose’s impact is not limited to the scientific community. His life and achievements continue to inspire aspiring scientists in India and around the world. The Bose Institute in Kolkata, established in 1917 with Bose as its founder, stands as a testament to his enduring legacy in scientific research.

## About the Author



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## Erratum

In the last issue of Tech Ananth, in my article on Homi Bhabha, I have mentioned that Government of India has posthumously conferred the highest civilian award of Bharat Ratna on Homi Bhabha in 1997. It is not correct and I regret the mistake committed due to oversight. Bhabha got the prestigious awards like Adams Prize (1942), Hopkins Prize (1948) and Padma Bhushan (1954). I thank Sri B Satyanarayana, an alumnus (1979-83) of JNTUA CEA who brought the error to my notice.

- Prof. P.R. Bhanu Murthy

# The Glory of Ancient Indians in Science

- Prof.R.Padma Suvarna

**A**ncient Indians made equal progress in the physical sciences and the spiritual field and was successfully travelling on the path of Dharma, Artha, Kama and Moksha. India became the Guru Peetha and the beacon of light for the world 2000 years back only. Swami Vivekananda said in his speech, “The world owes so much to our motherland. When I look back at the history of my country, I feel that no other country has contributed to the development of human intelligence. That is why I have no words to worry about my country.”

In mathematics, Algebra, Geometry, Combination of astronomy and mathematics was invented in India. Ten numbers from zero to 9 which are the foundation of today’s human society were invented by Indians. It was India that gave seven notes (sa, ri, ga, ma, pa da, ni), to the music the script and the ascending and descending scales. Linguistically, the Sanskrit language is world-famous. Kavyas, poems and dramas contributed by Indian literature are in no way inferior to those popular in world literature. Our Sanskrit Shakuntalam play is amazingly popular in Germany. The children’s delights of the Arabian Nights were rooted in Sanskrit stories. Concepts of Cinderella, Beanstack stories were also taken from us. Coming to manufacturing industry, it was Indians who first made cotton and purple dye. India, which had progressed in many fields like jewellery, sugar, chess, poker and dice, was seen as a destination for Europeans and that led to the discovery of America.

Coming to Indian space talents, we have learned that Kepler, Copernicus and Galileo were the first to say that the earth is round, and Sir Isaac Newton discovered the law of gravitation. All of them belong to the 16<sup>th</sup> and 17<sup>th</sup> centuries. In the most ancient book called Suryasiddhanta, it is stated that the earth is stationed in the sky in the middle of the universe, without falling due to its holding power. Aryabhatta an astronomer belonging to 476 AD in his treatise identified the Earth’s diameter as circular on all sides. Varahamihira’s Pancha Siddhantika, written in 505 AD, said that the round earth, which is a ghostly sphere, is like an iron ball hanging in a cage, positioned among the stars in the sky. A famous mathematician named Bhaskaracharya in his book ‘Lilavati’ said to his daughter Lilavati that the earth is not flat because if we see a big circle in four parts it looks

like a straight line to us. But actually, it is a circle. The Earth is round and has a gravitational force. Because of the mutual attraction of the planets in the sky, they are self-sustaining there, and the earth because of its gravitational power attracts the objects in the sky towards itself. It was well explained to her that due to this charm, all things fall on earth. Ancient Indian texts are full of references to the theory of gravity dating back hundreds of years. The Vedas also refer to the motion of our celestial bodies. As part of those motions, Aryabhatta was able to calculate solar and lunar eclipses accurately, saying that when the sun is covered by the moon, the shadow appears on the earth as a solar eclipse, and when the moon is covered by the earth, as a lunar eclipse. It was also said that Earth takes 23 hours 56 minutes 4.1 seconds to revolve around itself in its orbit. It is perfectly matching with the calculations of modern days. Earth’s satellite, the Moon, revolves around Earth, and Earth itself revolves the self-luminous Sun. That is why the sun appears to rise in the east and set in the west. It was explained that the sun neither rises nor sets.

Indians were very ahead in telling the world that there are 7 colours in the light rays emanating from the sun. In the oldest Vedic science, it was explained that there were seven colours in the rays of the sun. Does the sun have exactly 7 rays? No, Sahasra and Savasra rays and each ray has 7 Varnas. Speaking about the speed of light, Sri Sayanacharya, a famous ancient commentator of the 14<sup>th</sup> century, wrote that describing the speed of light.

“అరవిమిషానికి 2202 యోజనాల దూరం ప్రయాణించు ఒక కాంతి కేరణమా నీకు నమస్కారం”

Here yojanamis equal to 9.11 miles. That is 20,060.22 miles per half minute or 1,88,064 miles per second. This is very close to the speed of light found by modern scientists. 20<sup>th</sup> century scientist, Morley found the speed of light to be 1,86,300 miles per second.

The Indian system of chronology is unquestionable, accurate and perfect. Our forefathers were scholars who accurately calculated time from Lipta to Kalpas and Yugas. Our system of chronology is Scientific. The ‘year’ is the only scientific term in Western chronology. Days, weeks, and months are not certain. But our Indians have calculated the movements of planets, stars, & rotation of earth etc. and determined the exact time, day, week and fortnight. AdhikaMasam is also mentioned to correct the differences in Sun

and Moon phases. Astronomical matters discussed by Indian astronomers in texts like Aryabhattiyam, SiddhantaShiromani, BrihatSamhita, Suryasiddhanta and BrahmasputaSiddhanta are in agreement with today's findings. Our ancestors built special observatories to observe celestial objects that are invisible to the naked eye. For example, Aryabhatta conducted astronomical research at a place called Kusumapura near Pataliputram, and the name of that research institute is said to be 'Khagola'. In the book 'SiddhantaShiromani' authored by Bhaskaracharya, it is stated that time determination and planetary positions were known using the NadivalayaYantra..The study of the machines of that time and rebuilding them with great skill was done by the Maharaja of Jaipur named SawaiJaisingh-II. He built the Jantarmantar Observatory in 1727 and raised the flag of India. He built these research institutes in Delhi, Jaipur, Madurai, Ujjain and Varanasi. These structures are unique not only in astronomical terms but also in terms of engineering.

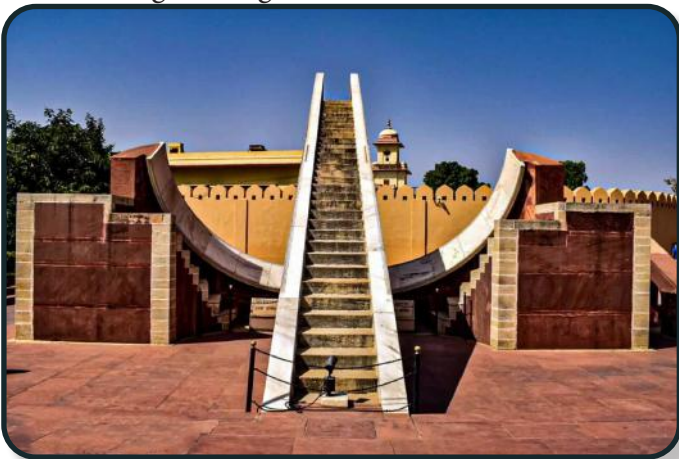


Photo: Jantar Mantar at Jaipur

If we analyze the health talent of our ancient Indians, the ancient Indian health secret is to live in harmony with nature. Ayurveda is the divine treasure of Indian medicine. This Ayurveda is the gift of sages Bharadwaja, Atreya, Agnikeya, Charaka, Dhanvantari, Sushruta and many more. It is the amrita Kalash given to the world by India. It was the Indians who introduced Rhinoplasty and bone grafting by discovering many chemicals and contributed a lot to modern medicine as well. Indians were the first to perform surgery in the world. In the 5th century, Sushruta studied surgery under Dhanvantari and wrote the Ayurvedic treatise SushrutaSamhita. In that, 8 sections of surgery and treatment, 125 devices used in surgery (Plastic Surgery) were discussed. Between 1978-80, medical experts fertilized a woman's eggs and a man's sperm in a test tube and introduced the embryo into the woman's uterus to give birth to a baby. Indian ancient science has put before us many proofs about the birth of such test tube babies. For

example, the birth of Agastya is a testimony for this. He was conceived outside the womb. If we look at the story of Drona in the Mahabharata, he was born with the influence of male sperm without the involvement of female eggs, and that is why he became Drona. The process of the birth of Drishtadyumna is similar to today's method of cloning. Vyasa Maharishi kept the aborted Gandhari's ova in her womb preserved them and she gave birth to 100 sons, a symbol of advanced scientific progress. Today, according to modern science, sodium chloride and silver iodide are sprinkled on the clouds in the sky to make it rain. There must be clouds for this. The chemicals used in the Yagna of those days were similar to the chemicals used in modern artificial rain. AgastyaMahamuni explained in his 'AgastyaSamhita' that electricity was produced easily by using a battery method similar to the modern battery cell structure. The materials he used to generate electricity were a clay pot, a copper plate, some Copper Sulphate, wet sawdust, mercury and zinc. He found that if the power of such electric pots is applied to water, the water changes its form and it transforms into Hydrogen and Oxygen. This Hydrogen gas is also said to be useful in aircrafts.

The theory of general relativity proposed by Albert Einstein was familiar to our ancient Indians. A story related to this matter is: A king named Kakudmi went to Brahmaloaka to discuss his daughter's marriage. There Brahma is listening to a song. The king stayed till the song was finished and then discussed the matter of his daughter's marriage with Brahma. Brahma says this. "Raja, you have come here and listened to the song. During this times, 27 Chauthuryugas have passed in the world. This is what is called "Theory of Relativity" proposed by Albert Einstein. According to this space and time are relative. The knowledge of our ancestors is unfathomable. Let's not limit the glory of our ancient scientists who are so experimental, scientific and technological, and let us continue to guide future generations by adapting those experiments according to our needs with the inspiration given by them.

### About the Author



Prof. R. Padma Suvarna has obtained M.Sc (Physics) from Sri Krishnadevaraya University, Anantapur in 1994, M.Phil., in 1997 and Ph.D in 2002 from the same institute. In 2011, she joined as an Associate professor in Jawaharlal Nehru Technological University in Anantapuramu and in 2015 she became a Professor in the same institution. Served as the Head of the department from 2011 to 2022, and from 2022 onwards she has been serving the University as the Director for Sponsored Research. Till now, she has guided 07 Ph.D. students as a supervisor, 09 Ph.D. students as a Co-Supervisor and 6 students are presently pursuing under her guidance. She has presented several popular talks on Science in All India Radio (AIR).

# Amazing Facts of 369

- Dr. K. Jayalakshmi

**T**esla's theory of 369 is based on the concept of reducing any number to a single digit by adding together its individual digits. For example, 369 reduces to 9 ( $3+6+9=18$ ,  $1+8=9$ ). Tesla believed that 3, 6, and 9 were the most important digits in this system, and that all other numbers could be understood in relation to these three. He portrayed these numbers as the key of universe. Even he said that three elements called sound, frequency and vibration are the secrets of universe.

## Mathematical significance

The numbers 3, 6, and 9 have special mathematical properties. Given below are just a few of them.

### Multiplying any number with 369 will always result in a digital root of 9.

For instance,

$52 \times 369 = 19188$  and the digital root is  $1 + 9 + 1 + 8 + 8 = 27$  and  $2 + 7 = 9$ ,

$3456 \times 369 = 1275264$  and the digital root is  $1 + 2 + 7 + 5 + 2 + 6 + 4 = 27$  and  $2 + 7 = 9$ ,

$245 \times 369 = 90405$  and the digital root is  $9 + 4 + 5 = 18$  and  $1 + 8 = 9$ .

In fact, this holds true for any combination of 3, 6, and 9, be it 963, 396, 639 or 693.

For instance,  $72 \times 963 = 69336$  and the digital root is 27, and  $2 + 7 = 9$ .

### Multiplying any number with 9 will result in a digital root of 9.

For instance,  $123 \times 9 = 1107$  and  $1 + 1 + 7 = 9$ ,  $54 \times 9 = 486$ , and  $4 + 8 + 6 = 18$  and  $1 + 8 = 9$ . Also, when you multiply 3 and 6 by any number, the resulting digital root of the number will always either equal to 3 or 6.

### Multiplying the numbers 3, 6, and 9, the resulting digital root will be 9.

For instance,

$3 \times 6 \times 9 = 162$ , and  $1 + 6 + 2 = 9$ ,

$3 \times 6 = 18$  and  $1 + 8 = 9$ ,

$9 \times 6 = 54$  and  $5 + 4 = 9$ .

### Add or subtract 369 from any number and the resulting digital root will be equal to the digital root of the original number.

For instance, let's take the number 45465. The digital root of this number is  $4 + 5 + 4 + 6 = 19$  and  $1 + 9 = 10$  and  $1 + 0 = 1$ . Now let's add and subtract 369 from this number.  $45465 + 369 = 45834$ . Digital root of 45834 is  $4 + 5 + 8 + 3 + 4 = 24$  and  $2 + 4 = 6$ .  $45465 - 369 = 45096$ . Digital root of 45096 is  $4 + 5 + 9 + 6 = 24$  and  $2 + 4 = 6$ . This also holds true for the number 9.

For instance,

The digital root of 34 is 7,

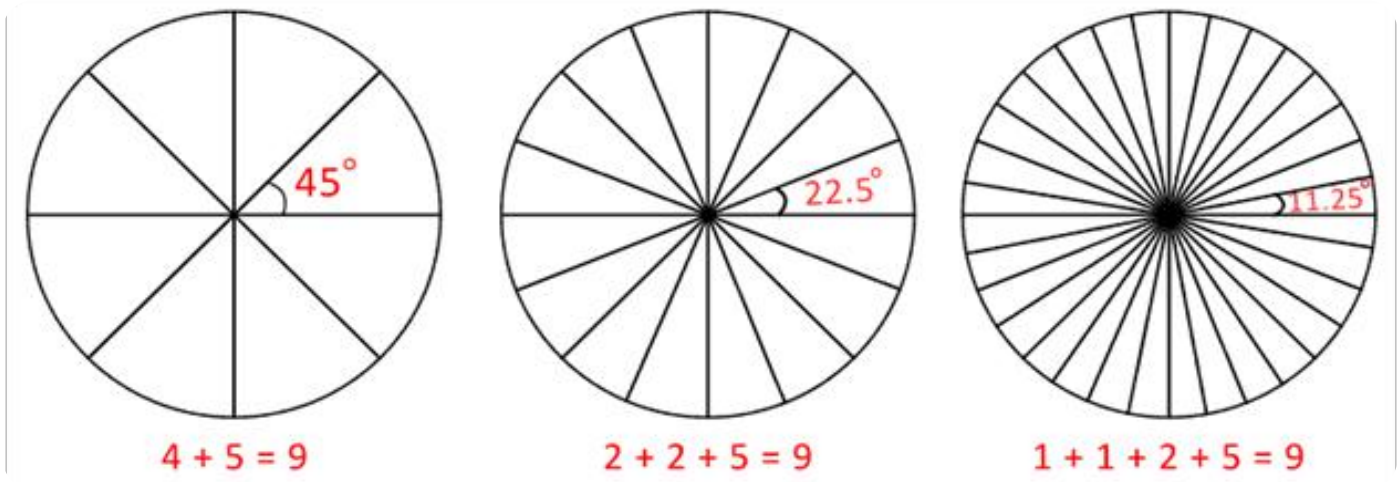
$34 + 9 = 43$  and  $4 + 3 = 7$ ,

$34 - 9 = 25$  and  $2 + 5 = 7$ .

**The digital root of the angles of all polygons is always 9.**

As shown in the table below, the sum of the angles of all polygons will always have a digital root of 9.

Polygon Name	Sum of Angles	Digital Root
Triangle	180°	1 + 8 + 0 = 9
Quadrilateral	360°	3 + 6 + 0 = 9
Pentagon	540°	5 + 4 + 0 = 9
Hexagon	720°	7 + 2 + 0 = 9
Heptagon	900°	9 + 0 + 0 = 9
Octagon	1080°	1 + 0 + 8 + 0 = 9
Nonagon	1260°	1 + 2 + 6 + 0 = 9
Decagon	1440°	1 + 4 + 4 + 0 = 9



**The digital root of the angles we get by bisecting a circle always result in 9**

Also, with you keep halving/bisecting a circle, you eventually reach singularity (or a single point). And when you keep adding sides to a polygon you reach close to forming a circle which represents infinity. Thus, nine is present in singularity (oneness) as well as infinity.

**Nine is equal to zero**

Nine also equals zero because when you find digital root of any number containing 9 and then replace nine with zero and find the digital root again. both roots would be the same. Which means, 9 and zero are interchangeable. For instance, Digital root of 4559 is  $4 + 5 + 5 + 9 = 23$  and  $2 + 3 = 5$ . When you replace 9 in 4559 with zero, we get the number 4550. The digital root of 4550 is  $4 + 5 + 5 = 14$  and  $1 + 4 = 5$ . Hence both digital roots are the same. For example,

Digital root of 759 is  $7 + 5 + 9 = 21$  and  $2 + 1 = 3$ ,

Digital root of 750 =  $7 + 5 = 12$  and  $1 + 2 = 3$ ,

Digital root of 34679 is  $3 + 4 + 6 + 7 + 9 = 29 =$  and  $2 + 9 = 11$  and  $1 + 1 = 2$ ,

Digital root of 34670 is  $3 + 4 + 6 + 7 + 0 = 20$  and  $2 + 0 = 2$ .

Also, when you multiply any number with zero, you get zero. The same is true for nine as well. As we saw earlier, when we multiply any number with 9 and you will get 9. This proves that 9 and zero are interchangeable. Since, zero stands for nothingness, 9 also equals nothingness or the spiritual/formless realm.

**The triple of any natural number can be broken down into 3, 6, or 9**

- (i) 111, 222, 333, reduce to 369 ( $1 + 1 + 1 = 3$ ,  $2 + 2 + 2 = 6$ , and  $3 + 3 + 3 = 9$ ),
- (ii) 444, 555, 666 reduce to 369,
- (iii) 777, 888, 999 reduce to 369.

## Significance in Hinduism

**AUM chant:** AUM has three distinct syllables – Aaaa, Oooo, and Mmmm which represent the conscious, subconscious, and superconscious states. These states can be represented using 3, 6, and 9.



In Hinduism the Number One Hundred Eight is used from very ancient period. Priests of India always instruct to chant mantras like Gayatri Mantra, Maha Mrityunjaya Mantra, Vishnu Mantra with One Hundred Eight times repetitions. There are total 108 talas in Indian Classical Music. There are total 108 names of Lord Shiva and Lord Vishnu according Shiva Purana and Vishnu Purana. There are total 108 sacred temples of Lord Vishnu. According to Tantric Hinduism a fit human will breath 10800 times in sunshine and 10800 times in moonshine which is ten times of 108.

$$108 \times 100 = 10800$$

According to scientist Nicola Tesla, “if you knew the magnificence of 3, 6 and 9, you would have a key to the universe.” In Hinduism there is a huge significance of the numbers 3, 6 and 9. The digital root of 108 is  $108 = 1 + 0 + 8 = 9$ .

### 3 6 9 with Swastik, Shri Yantra and Spiral :

The word “swastika” comes from the Sanskrit svastika - “su” (meaning “good”) combined with “asti” (meaning “it is”), along with the diminutive suffix “ka.” The swastika remains a major symbol of Hinduism, representing eternity, particularly the eternal and ever-present force of the Brahman. It is also a symbol of the present of goodness, as well as representing strength and protection. The message of eternity in the swastika is also widely used by Buddhists.

**Third eye chakra:** 3 represents the subconscious mind and 6 represents the conscious mind. When 3 and 6 resonate, it results in the opening of the third eye (represented by 9) which helps you see higher dimensions and ultimately the truth.

**3 realms of existence:** There is the material realm, the spiritual realm, and a middle point or source that holds these realms together. These realms can be represented using 3, 6, and 9. The source being 9.

### Other phenomena that represent 3, 6, 9

**Vibration, Frequency, & Energy:** Everything vibrates at a specific frequency. Vibration, frequency, and the resulting energy can be expressed in terms of 3, 6, and 9.

**Atomic Charges:** Atoms have 3 particles – electron, proton, and neutron and 3 types of charges, positive, negative, and neutral. These particles and charges can be represented using 3, 6, and 9. The positive charge is 3, the negative charge is 6, and the neutral charge that balances it all is 9.

**Electromagnetic energy:** Light is life and light is nothing by electromagnetic energy. In other words, light is made of electric and magnetic fields. This perfectly fits the 369 code. 3 stands for electricity, 6 for magnetism, and 9 represents the resulting light.

**Magnetism:** The numbers 3 and 6 represent the opposite poles of the magnet, whereas the number 9 represents the core or axis that is at the center of the opposing poles.

**Conclusion:** So in conclusion it can be said that Nikola Tesla’s words are so much relatable. Whole universe is working on mathematics and its complex. Universe itself is a huge thing to be understood and the philosophy of human mind is to make it in a boundary. Human mind is like programmed software whichever format is not matched according to the code of mind, mind will reject it that’s why humans will try understand something as their own way and for this a same task is easy for someone and difficult for the other one. There is a concept of Advaita which refers to nonduality. A piece of rope can be felt a snake, that’s called perception in social language and malfunction of software in computer science. In modern times, number 3, 6 and 9 is considered as manifestation process. But whole universe is working on these numbers. Even gravitational force  $(g) = 9.81 \text{ m/sec}^2$ . The digital root of 9.81 is  $9.81 = 9 + 8 + 1 = 18 = 1 + 8 = 9$ . So nonduality is the optimum achievement of human. It’s important to accept the situation as it is.

## About the Author



Dr. K. Jayalakshmi is a Professor of Mathematics at JNTUA College of engineering Anantapur. She has written books on Derivations in Ring Theory which is very useful for the research scholars working in the field of Ring Theory. She has delivered more than 10-Invited talks in National and International Conferences in India and abroad. She has published more than 70 Research papers in SCI and ESCI journals.



# UNIVERSITY AWARDS 2023

## Presentation Ceremony

Date: 13-12-2023



**J**NTU Anantapur organized the University Awards program on 13.12.2023 in the college auditorium. On this occasion, Vice Chancellor Prof. G. Ranga Janardhana inaugurated the program by lighting the traditional lamp. Afterwards, the Vice Chancellor said that University Woman Coordinators (Women Empowerment), Coach (Physical Education), NSS Officers & Volunteers, Patentees and University Achievement awards for AP state teacher awardees, University Appreciation awards for principals of constituent colleges were presented to teachers and principals of the Constituent and Affiliated Colleges of the University. He said that teachers play a vital role in making students responsible citizens. He said that the teachers are the pillars of building an equal society. The teachers of the affiliated colleges should inform the university about the awards and patents they have achieved. This information will be useful for achieving better NIRF Ranking and NAAC Grades. Registrar Prof. C. Sashidhar said that the role of a teacher in every person's life is definite and after the parents, the teacher affects the individual's life. Later the teachers were presented with the awards and were felicitated. The award included merit certificate, plaque, a shawl and cash award of Rs. 5000.00. In this program, the Principal of JNTUA CEA and Director Academic & Planning i/c Prof. S.V. Satyanarayana, Vice Principal Prof. E. Arunakanthi, University Directors, College HODs, Teaching and Non-teaching staff participated.

### University Teacher Awards

**Dr. K. Sesha Maheswaramma**, Professor of Chemistry, JNTUA CE Pulivendula was awarded the University Teacher Award in the category of constituent colleges, **Dr. Praveen Sam**, Professor of CSE G. Pulla Reddy Engineering College Kurnool, **Dr. B. Saroja Professor** of ECE Siddhartha Institute of Science and Technology Puttur, **Dr. B. Damodhara Reddy** Professor of Civil Engineering Sri Venkateswara College of Engineering & Technology, Chittoor were awarded University Teacher Awards in the Engineering category. **Dr. P. Dwarakanandha Reddy**, Professor

of Pharmacy, Annamacharya College of Pharmacy, Rajampet, Annamayya District, **Dr. K. Saravankumar** Professor of Pharmacy Seven Hills College of Pharmacy, Venkataramapuram, Tirupati received University Teacher Awards in the Pharmaceutical Sciences Category.

### University Principal Awards

**Prof. M. Mohan Babu**, Principal Sri Venkateswara College of Engineering and Technology Chittoor, **Prof. C. Yuvaraj** Principal Madanapalli Institute of Technology and Science Madanapalli, **Prof. M. Niranjan Babu** Principal Seven Hills College of Pharmacy Tirupati received University Principal Awards.

### University Coach (Physical Education) Awards

**Sri. G. Ravi Chandra**, Physical Director, Adi Shankara College of Engineering and Technology, Gudur, **Dr. B. Nagamuni** Physical Director Annamacharya Institute of Technology and Science Rajampeta received University Coach Awards in the category of Physical Education.

### University Woman Coordinator (Woman Empowerment) Awards

**Dr. I. Sunita**, Professor of E.C.E., Annamacharya Institute of Technology and Science Tirupati, **Dr. J. Sophia Priyadharshini** Associate Professor Rajiv Gandhi Memorial College of Engineering and Technology, Nandyal, Kurnool District received University Woman Coordinator awards for the category women empowerment.

### University NSS Awards

**Mr. G. Chinna Pullaiah** S.R.I.T. Anantapur, **Dr. K. Aparna** JNTUA College of Engineering, Kalikiri, **Ms. B. Nagashubha** RIPER, Anantapur received University NSS awards for the category Program Officers. **Mr. M. Kiran Sai** RIPER, Anantapur received University NSS award for the volunteers category.



## University Appreciation Awards

Under the category of Principals of University Constituent Colleges (those who have completed 2 years) **Dr. G. Shankar Shekar Raju** Professor of Mathematics and Additional Controller of Examination JNTUA Anantapur, **Dr. P. Sujatha** Professor of E.E.E. and Director FA & AM, JNTUA, Anantapur received the awards.

## University Achievement Awards

**Dr. R. Padma Suvarna**, Professor of Physics and Director Sponsored Research JNTUA Anantapur, **Dr. V.B. Chitra**, Professor of Humanities and Director Women Empowerment JNTUA Anantapur received University Achievement Awards for receiving the AP State Teacher Awards 2023.

## University Appreciation Awards for Grant of Patents

Faculty of University Constituent Colleges **Dr. G. Prasanthi**, Professor of Mechanical Engineering JN-

TUA CEA Anantapur, **Prof. E. Keshava Reddy**, Director of Evaluation, JNTUA Anantapur, **Dr. A. Saila Kumari**, Mathematics JNTUA Anantapur, **Dr. R. Padma Suvarna** Professor of Physics JNTUA CEA Anantapur, **Prof. H. Sudarshan**, Department of Civil Engineering JNTUA CEA Anantapur, **Dr. G. Vaishali** Department of Civil Engineering JNTUA Anantapur, **Dr. R. Bhavani** Department of Civil Engineering JNTUA CEP, Pulivendula, **Prof. S. Krishnaiah** Civil Engineering Dept. JNTUA CE Kalikiri, **Dr. D.R. Srinivasan** Assistant Professor Mechanical Department JNTUA CEA, Anantapur, **Dr. V. Sumalatha** Professor of ECE JNTUA CEA Ananthapuram, **Dr. D. Vishnu Vardhan** Professor of ECE JNTUA CEA Ananthapuramu, **Dr. M. Rama sekhar Reddy**, Assistant Professor E.E.E. JNTUA CEA Anantapur, **Dr. S. Chandramohan Reddy**, Professor of E.C.E. JNTUA CEA Anantapur received University Appreciation Awards for grant of patents.



# University Awards 2023

## About the Awardees

### University Teacher Awards

#### Category : Constituent Colleges



**Prof. K. SESA MAHESWARAMMA**, Professor of Chemistry, is presently HOD of Humanities & Basic Sciences in JNTUA CEP (A) Pulivendula. She published more than 60 research publications in internationally reputed journals, book chapters and presented more than 50 research papers in national and international conferences. She was awarded Indian Academy of Sciences summer research fellowship twice and Indian National Science Academy Visiting Scientist Fellowship and has collaborated with IISc Bangalore and CSIR-NGRI. She is University Coordinator for AICTE Technical Book writing scheme in Telugu, coordinated, translated and reviewed several books into Telugu language under the AICTE scheme. She is also an AICTE - NCC-IP faculty Volunteers for translation of UHV Content. She is a certified as a trainer by the Government of India. She has travelled to Germany and China for presenting her research papers.

#### Category : Engineering



**Dr. Rachapudy Praveen Sam** is a Professor of CSE at G. Pulla Reddy Engineering College Kurnool. He obtained his Ph.D. degree in Computer Science and Engineering from JNTUA, Anantapur. Dr R. Praveen Sam has a total experience of 23 years and worked in various capacities. His areas of research are Mobile Ad-Hoc Networks and Wireless Sensor Networks. He has published 28 research papers in SCIE/Scopus Indexed journals. He has completed a minor Research Project of worth Rs.2.5 Lakhs funded by UGC. He has published 3 patents and received one patent grant. He has published one text book and also contributed three book chapters. He is the Chief Coordinator for the AICTE Sponsored Margdarshan Scheme sanctioned for 15 Lakhs in the year 2020-21. He received "Best Teacher Award" from his college in AY 2020-21. He has guided Eight PhD scholars and currently guiding four research scholars.



**Dr. B. Saroja** is a professor of ECE and presently HoD at at Siddartha Institute of Science and Technology Puttur. She has specialized in Medical Image Analysis for her Ph.D. With over 17 years of experience in academia Dr. Saroja is actively engaged in R&D, has numerous publications in indexed journals and recognised as a research guide at JNT University, Ananthapuram. Her achievements extend to over seven patents and four authored academic books. Her expertise spans image processing, embedded systems, communication systems, IoT, Machine Learning, Wireless Sensor Networks, and VLSI. A sought-after participant in IEEE/Springer conferences, she has delivered keynote addresses and chaired sessions, demonstrating her significant contributions to the academic community.



**Dr. B. Damodhara Reddy** is Professor & presently Heads Civil Engineering Department, SVCET, Chittoor. He received his Ph.D. from S.V.University Tirupati. After brief service in construction, he shifted to engineering teaching and crossed 20 years in various capacities. He has 35 research articles in peer reviewed journals, 02 patents. and 04 Book Chapters. He is also editor for 02 international journals. Under his guide ship, 01 research scholar was awarded Ph.D and 01 is pursuing. He did consultancy works for Rs.16.35 lacs, He received extramural funding worth Rs. 65 L for research. He is a member of 5 Professional societies. He received Outstanding Young Concrete Engineer – 2019, Outstanding Master's Thesis-2020 awards from ICI – Ultra Tech, Vijayawada and Best Civil Engineering Teacher Award in 2022 from ISTE AP Chapter.

## Category : Pharmaceutical Sciences



**Dr. P. Dwarakanadha Reddy** currently holds the position of Professor and HoD at Annamacharya College of Pharmacy, Rajampet. He is an accomplished individual with significant contributions in the field of Pharmaceutical Sciences. He completed his Ph.D. from Jawaharlal Nehru Technological University (JNTUA), Anantapur. He is having more than 17 years of experience in teaching, administration, and research. He was honored with the Andhra Pradesh Academy of Science (Govt of AP) fellowship in the field of Pharmaceutical Science for the year 2020-2021. He acts as a Pharmacy Council of India (PCI) Inspector, New Delhi and appointed as member Nominee of committee for control and supervision of experiments on Animals by Ministry of Animal husbandry, New Delhi. He serves as the Editor-in-Chief for the Scopus indexed Journal 'Global Trends in Pharmaceutical Sciences'. He has successfully guided 07 Ph.D. students at JNTUA and authored 5 text books. He has secured extra mural research funding, and published an Australian and an Indian Patent on formulations.



**Dr. K. Saravanakumar** is Professor and HoD at Seven Hills College of Pharmacy, Venkatramapuram Tirupati. He has received his Ph.D from JNTUA in 2013. He has 16 years of teaching and research experience in the field of Pharmacy. He published 75 Research and Review articles and had a 03 International Patent Grants and 04 National Patent Publications. He was the Coordinator for recently conducted Five Day Faculty Development Programme on Recent Challenges, Trends in Pharmaceutical Nanotechnology – Research to Revenue. He gave 52 presentations in various National & International Conferences. He has guided 02 Ph.D Scholars and currently guiding 02 research scholars.

## University Principal Awards



**Dr. M. Mohan Babu** Principal of Sri Venkateswara College of Engineering and Technology, Chittoor is Professor of civil engineering and obtained his PHD from JNTU Hyderabad in Water Resources Engineering. After brief service in industry, he moved to teaching profession. He has 40 publications in national and international Journals and 7 patents. He presented 12 technical papers in conferences. He worked on two research projects worth Rs. 1.9 crore. He did consultancy works worth about Rs. 11 L. Under his guideship, one research scholar was awarded PHD and two are pursuing. He authored book chapters and is an editor for 5 international journals. He is a member of 4 professional societies and Test Committee, APECET – 2023. He has received ISTE AP chapter - Best Engineering College Principal for the year 2022.



**Dr. C. Yuvaraj**, Principal of MITS Madanapalle is a Professor of Mechanical Engg. He has 32 years of Experience in Academics. He has to his credit 35 Publications in various International Journals and 28 Conference publications. He has received extra mural funding of Rs. 47.25 Lakhs to carry out research project/FDPs/workshops etc., He has so far produced 4 Ph.D Scholars & presently guiding Two Research scholars. He has established more than 10 Laboratories in the Institute. He has also visited several IITs, IIMs etc., and countries like Malaysia, Indonesia, United Kingdom, Singapore etc., for various research and academic collaborations. Under his leadership MITS has received several Accreditations from prestigious organizations. With a focus on Academics, he is able to achieve 100% admissions, 80% placements & increase the student intake to 1860. He was instrumental in receiving research grants worth of around 10 crores, Consultancy of 1.2 Crore, publishing patents & enhancing publications to 400 per year.



**Dr. M. Niranjan Babu** is the Professor and Principal of Seven Hills College of Pharmacy (Autonomous) Venkatramapuram, Tirupati since 2008. He has completed his Ph.D from J.S.S College of Pharmacy, Ooty, He is having 28 years of academic & research experience in the field of pharmacy. Under his leadership the college has acquired accreditations NAAC, NBA, 2f 12b recognitions from UGC, and is placed in top band in NIRF rankings. He helped the college to be in the top 50 Swachh Campuses a ranking issued by MHRD, Govt. of India. Dr. M. Niranjan Babu has received total grants of worth around Rs. 25 L for his college from various external agencies. He has authored text books in Pharmaceutical Science and is having 02 Patents. Dr. M. Niranjan Babu is the recipient of number of several state and national level awards for his exemplary service to the society. He has been honored & Felicitated by Andhra Pradesh Pharmacy Council, Guntur, Andhra Pradesh for his efforts in Pharmacy education helping students with their personal and professional growth.

## University Best Coach, Physical Education



**Mr. Gudluru Ravi Chandra**, the physical director at Audisankara College of Engineering and Technology in Gudur, is a highly accomplished athlete with an impressive track record in games, especially in cricket. Mr. Ravi Chandra has been serving as a physical director at the college for the past 20 years. He is known for his exceptional athletic abilities and his talent for motivating students. Mr. Ravi Chandra has organized a number of Inter-collegiate meets, selection trails, coaching camps, and has played a key role in selecting university-level teams in various sports. His dedication and passion have positively impacted countless students. In addition, Mr. Ravi Chandra is also a Sports council member for JNTUA sports, where he continues to contribute to the development of sports programs and initiatives at a higher level.



**Dr. Bokkasam Nagamuni** is an Assistant Professor in Physical Education at Annamacharya Institute of Technology and Sciences Rajampet. He pursued his Ph. D. from Tamil Nadu Physical Education and Sports University. Dr. B. Nagamuni has an extensive history of serving as a team manager and coach for various sports teams affiliated with JNTUA over the years. In the current academic year, he acted as the team manager and coach for the JNTUA ball badminton team, and additionally, he also took on the role of managing and coaching the wrestling team as well. Dr. B. Nagamuni has been on the JNTUA sports Board Executive council Member from 2021 to till date; He is also the Organizing Secretary for Ball Badminton Association of Kadapa District. Dr. B. Nagamuni actively Participated in Number of FDP'S, Seminars, Conference held at both national and International levels on physical education He published Number of articles on physical education. Under his Guidance's number of Medals appreciations secured in JUDO, WRESTLING AND ATHLETICS. This diverse range of responsibilities showcases his long-standing and varied commitment to coaching and managing sports teams within our university.

## University Woman Coordinator, Women Empowerment



**Dr. Irala Suneetha** received her Ph.D from S V University, Tirupati. She is working as a Professor in the Department of Electronics and Communication Engineering at Annamacharya Institute of Technology and Sciences(AITS), Tirupati. She is Nodal Officer for Microsoft Upskilling Program by APSICHE-JNTUA, Single Point of Contact (SPOC) for NPTEL Local Chapter and Convenor for Women Empowerment Cell (WEC) at AITS, Tirupati. She received 2 Patents, Published 57 Research Articles in Scopus, and UGC Care Journals. She presented 43 papers in National Conference and International Conference. She has 21 years of Teaching experience and 10 years of Research experience.



**Dr. J. Sofia Priya Dharshini**, is an Associate Professor at Rajeev Gandhi Memorial College of Engineering and Technology Nandyal, AP, since 2005. She boasts over 18 years of prolific teaching, dedicated to fostering academic excellence and research expertise. She pursued her Ph.D in the field of Wireless communication and Networks from JN-TUA 2018. She published more than 21 research publications and 5 patents. She received AICTE ATAL Funding in the year 2020 and 2023. Beyond teaching, Dr.Priya Dharshini takes diverse roles such as Women Empowerment Cell Head, Anti Sexual Harassment Committee Chairperson, IEEE Women in Engineering (WIE) AG Advisor, SAC coordinator and EBSB Coordinator at present in her Institution. She organized several programs to uplift women and girl students in her career. She is volunteering as secretary in IEEE WIE AG Hyderabad Section.

## University NSS Awards

### Category: Program Officers



**Mr. G.Chinna Pullaiah**, Asst. professor in CSE, Srinivasa Ramanujan Institute of Technology, (SRIT) Ananthapuramu. He is NSS Program Officer, EBSB& UBA Coordinator, He has several awards in the field of NSS. State Level NSS Best Programme Officer Award 2019, University Level NSS Best Programme Officer Award 2017, National Level NSS Best Program Officer Award 2020 Awarded by our honorable President of India. Received an award from honorable District Collector, Ananthapuramu on the occasion of 72nd Republic Day celebrations. Received National Level Best Outstanding Academic Achievement Award from Kamarajar Institute of Education and Research Theni, Tamil Nadu 2020. Received Lifetime Achievement Award from IJIEMR – ELSEVIER SSRN RESEARCH AWARDS 2022.



**Dr. K Aparna is presently** serving as Associate Professor and Head of the Department of ECE in JNTUA College of Engineering Kalikiri. She is NSS Program officer from 2017 to till date. Dr. K. Aparna received Best NSS Program officer Award at state level during 2021-2022. She earned recognitions from youth red cross for Organizing Blood donation camps. She has been driving force in inspiring students to embrace leadership and humanitarian qualities through community service. She organized medical camps during the covid pandemic, initiated Vaccination Programs and Conducted many awareness Campaign on issues such as AIDS, Breast Cancer, girl child Protection. She also Organized Plantation Programs , Blood groups tests , Blood Donation Camps, Swatch Bharat and Community Service programs. Under her guidance NSS Volunteers participated in Pre- RD Camps, National Youth Festival, NIC Camps, State Level republic day parade, and State Level Independence Day parades.



**Ms. B NAGASHUBHA** is an ASSITANT PROFESSOR at Raghavendra Institute of PE & Research, ANANTAPUR. She is having Teaching experience of 8 years and working as NSS PO since from 5 years. She has organized 10 Blood Donation Camps and 2 corona Vaccination drives, Actively participated in Awareness on AIDS, Betibachavo beti padvo, Voter Awareness, gender sensitization Rallies. Organized Mega Plantation program of 200 medicinal plants, during corona distributed Mask and groceries to needy people and front line warriors. Conducted survey of anemic patients at adopted village distributed 100 Nutrition kits to the patients. She conducted training Programs to the youth, Carrier guidance, leadership qualities, catch the rain training programme, fire Training Programme under disaster management. Conducted digital literacy to women at rural, energy conservation and water conservation. Attended Pre RD Camp as AP contingent leader.

Category: NSS Volunteer



**M. KIRAN SAI**, is a UG pharmacy student at RIPER Anantapur. He is presently the NSS STUDENT PRESIDENT for NSS UNIT 1. MACCHA KIRAN SAI completed 240 Hrs volunteer ship and completed 2 special camps as on today. He worked for anemic patients at his adopted Village Chiyyedu. He mobilized 360 volunteers and 23 foreigners to donate blood. He collected Rs. 14000/- to contribute to Armed Forces on FLAG DAY FUND. He has actively Participated and provided his services at IPPERU Village during MEDICAL CAMP conducted in August 2023, He participated actively in swatch Bharat Abhiyan, health and Immunization Camp, distributed Eco friendly Ganesh Idols @ Ananthapur. He contributed 75 saplings of medicinal plants and planted 55 of them at RIPER, under Meri Desh Meri Mati Programme. He has also published one patent.

University Appreciation Awards for Principals of Constituent Units



**Dr. G.S.S. Raju** is a doctorate from Sri Venkateshwara University, Tirupati in 1991. Presently working as Professor and Additional Controller of Exams, JNTUA Anantapuram. He has 30 years of experience in teaching, research and administration. Discharged his duties in the University in teaching and administration at various positions Principal 2018-22 for 4 Years, Officer In charge of Hostels, In-charge of central library, TEQIP co-ordinator, Chairman BOS, etc. His research areas are Fluid mechanics and Graph theory. He guided 15 students for Ph.D., and also guiding the students for Ph.D. He published several papers in national and international journals. He is also a reviewer for various journal of international repute. He is the life member for various professional societies.



**Dr. P. Sujatha** is a Professor in Electrical and Electronics Engineering Department at JNTUA College of Engineering Ananthapuramu. She has contributed as Deputy Warden of Girls hostels, NSS program officer, Head of EEE department, Vice Principal of JNTUA CEA from and Principal of JNTUA CEA from May 2021 to July 2023. Right now she is serving the University as Director FA&AM. Achievements on her tenure as a Principal of CEA include successful completion of 75 years celebrations of CEA 2021, alumni related activities in the college, NBA accreditation for Six UG programs, conduction of UPSC and APPSC and Police Recruitment board examinations.

University Achievement Awards for A.P. State Teacher Awardees



**Dr. R. Padma Suvarna** is a Professor of Physics and is currently the Director of Sponsored Research at JNTU Anantapur. She received her doctoral degree in Physics in 2002. She has a professional experience of 25 years. She served in various capacities such as Head of the Department, BoS Chairperson and Member of Governing Council for various affiliated colleges. She has published 75 papers in reputed National and International Journals. She has authored 2 text books and 8 book chapters. She has successfully completed two extramural research projects. 7 students have completed Ph.Ds under her supervision and 5 are pursuing. She is reviewer for Journal of Materials Science by Springer and International Journal of Applied Ceramic Technology by Wiley. She has received 2 German patents for her research in materials science. She has received several awards including **State Teacher Award by the Govt. of Andhra Pradesh for 2023.**



**Dr. V.B.Chitra** is Professor of English and presently serving as Director of Women Empowerment Cell at JNTU Anantapur. She received her Doctoral Degree in English from S.V. University, Tirupati. She has experience of over 26 years in both teaching and research. She is the Chairperson for UG & PG Boards of Studies in English for JNTUA, Rayalaseema University, and JNTUA CE Ananthapuramu. She has served as Nodal Officer for pilot project on 'English Communication Skills' organised by APSCHE & British Council. She presented around 60 papers in various conferences, edited 6 books, co-authored 8 books. She has mentored 25 Ph.D scholars. She is affiliated to various professional organisations namely ELTAI, ISEL, TESOL, ISTE, and AESI. She has received several state and national awards including **State Teacher Award by the Govt. of Andhra Pradesh for 2023.**

## University Appreciation Awards for Consituent Colleges for Grant of Patents

Dr. G. Prasanthi	A new method to fabricate different layered Al7075/SiC functionally graded materials using powder metallurgy technique.
Prof. E. Keshava Reddy, Dr. A. Saila Kumari	An artificial intelligence and machine learning based system for bio-statistical profit making decisions.
Prof. R. Padma Suvarna	A system for synthesizing Ba <sub>1-x</sub> Cu <sub>x</sub> Fe <sub>12</sub> O <sub>19</sub> (x=0.2-0.8) nanoparticles.
Prof. H. Sudarsana Rao, Dr. Vaishali G Ghorpade	Methods for preparation of Bacterial Concrete with self healing abilities and products thereof.
Prof. R. Bhavani	System and method for generating high power by utilization of minimal input and pressurized water.
Prof. S. Krishnaiah	Measurement of Bituminous Binders in Rotational Mode through indirect measurement of Torque.
Dr. D. R. Srinivasan	Self Locking Wheels for Automotive Tools Trolley.
Prof. V. Sumalatha	Intelligent Customer Care Center.
Dr. D. Vishnu Vardhan	An Artificial Neural Network System for Functional MRI segmentation with Cc-Bpa.
Dr. M. Ramasekhara Reddy	An efficient and automated smart heating bucket.
Dr. S. Chandra Mohan Reddy	An Artificial Intelligence and IOT based covid-19 early warning system for senior citizens.



### JNTUA TO CONFER HONORIS CAUSA ON PROF. K. BALAVEERA REDDY AN ILLUSTRIOUS ALUMNUS AT XIII CONVOCATION ON 6<sup>TH</sup> JANUARY 2024



Hon'ble Governor of Andhra Pradesh & Chancellor of University Shri. S. Abdul Nazeer will lead the XIII Convocation Academic Procession at 11 A.M on 6<sup>th</sup> January 2024 along with the Vice Chancellor Prof. G. Ranga Janardhana and members of Executive Council at NTR Auditorium, JNTUA, Ananthapuramu.

Shri. Botcha Satyanarayana Minister for Education, Government of Andhra Pradesh is the Special Guest of Honor.

Prof. V. Satyanarayana Raju, Former Director IIT Delhi is the Chief Guest and shall deliver the Convocation address.

Prof. K. Balaveera Reddy, Former Vice Chancellor Visvesvaraya Technological University, Belagavi, Karnataka and Distinguished Alumnus of College of Engineering Ananthapuramu shall receive Honoris Causa Award.

Prof. G. Ranga Janardhana Vice Chancellor JNTUA shall present the University report highlighting the achievement of University in diverse fields.

The Governor shall grant degrees and handover goldmedals to toppers of various courses of the University.



Prof. K. Balaveera Reddy is a distinguished alumnus (1963 Batch) of college of Engineering Anantapur. He has obtained his Ph.D from IIT Madras in 1979. He became head of Mechanical Engineering Department at KREC Suratkal in 1995. He was Director of Technical Education, Government of Karnataka during 1996-2001. He served as Vice Chancellor of Visvesvaraya Technological University, Belagavi, Karnataka from 2001 to 2007. He received several awards and wide spread acclaim for his contribution to Technical Education. Recognizing his abilities Government of India appointed him as Chairperson, BoG, NITK, Suratkal Karnataka for period 2018 to 2021.

**Report on Placement Drive for December 2023  
@ JNTUA College of Engineering Ananthapuramu.  
by  
Dr. A.P. Siva Kumar, Placement Officer, JNTUA CEA**



**MSN Laboratories**

**Date: 01-12-2023**

MSN Laboratories conducted a visit to the JNTUACEA campus on December 1, 2023, specifically targeting chemical engineering graduates from the class of 2024. They presented a compelling career opportunity with a competitive annual package of INR 3,00,000. The company selected 41 students for the role of “Graduate Engineer Trainee” at their Hyderabad location.



**Deccan Fine Chemicals India Pvt.Ltd**

**Date: 05-12-2023**

Deccan Fine Chemicals India Pvt Ltd made a visit to the JNTUACEA campus on December 5, 2023, specifically targeting chemical engineering graduates from the class of 2024. They presented an enticing career opportunity with a competitive annual package of INR 4,00,000. The company selected 9 students for positions at their Tuni location.”



**Medha Servo Drives Pvt.Ltd**

**Date: 06-12-2023**

On December 6<sup>th</sup>, 2023, representatives from Medha Servo Drives Pvt. Ltd. conducted a visit to the JNTUACEA campus to engage with graduating students from the 2024 batch. The company extended a compelling career opportunity with a competitive annual package of INR 4,50,000. Students from diverse branches such as EEE, ECE, CIVIL, and MECH participated in the examination, and they are currently anticipating the release of the results.





Accenture Solutions Pvt. Ltd. visited the JNTUACEA campus on December 13<sup>th</sup>, 2023, targeting the graduating class of 2024. Compensation package INR 4.5 / 6.5 LPA. Approximately 360 students actively participated in the recruitment process, with 90 successfully clearing the coding test. The final results are eagerly awaited.”



“FactSet Systems India Pvt. Ltd. conducted a visit to the JNTUACEA campus on December 13, 2023, for the graduating class of 2024. They presented an enticing career opportunity with a competitive annual package of INR 10,08,000. The company selected 7 CSE students for the role of “Software Engineer” at their Hyderabad location.”



## CONTRIBUTION OF ARTICLES TO THE E-MAGAZINE

### TECH ANANTH

The members of the JNTUA fraternity all students, faculty and alumni are requested to contribute for publication in the monthly illustrated on-line e-magazine ‘Tech Ananth’ of the University. The members can send submission to the editorial team email id<emagazine@jntua.ac.in>. the members can send reports of important events along with photos details of achievements such as awards, prestigious assignments and funded projects, success/inspirational stories for alumni, articles on science and technology which induce technical respective fields can write to the same email id by including <career counselling request> in the subject-line of the email id. Senior professors of the University shall answer to the counselling related questions which will be published. Members contributing articles shall give their full details such as Name, Designation, College, and Department with mobile number and email ID for correspondence.

Editorial Team  
emagazine@jntua.ac.in

## Awareness Program World AIDS Day

@ JNTUA Oil Technological Pharmaceutical & Research Institute, Ananthapuramu

Date: 01-12-2023

JNTU Anantapur affiliated Oil Technological and Pharmaceutical Research Institute (OTPRI), Ananthapuramu organized World AIDS Day on 01.12.2023. On this occasion, Prof. B. Durga Prasad said that this epidemic is the biggest scourge affecting humanity, and the health care workers have a unique role to play in preventing it. He said that no prejudice should be shown towards AIDS patients. He said awareness should be created among the people about AIDS treatments, so that changes in lifestyle should be made so that AIDS does not become a burden. Precautions to be taken to prevent AIDS explained. On this occasion, the students took

a pledge related to AIDS. He said that the society should not discriminate against the citizens in the prevention of AIDS. College Principal Dr. Gopinath, NSS Program Officer



## JNTUA CEA NEWS



### One-Week Faculty Development Program “Exploring the Cutting – Edge World of Chip Design”

by Department of ECE, JNTUA College of Engineering Ananthapuramu.  
& AICTE Training and Learning (ATAL) Academy Cell, New Delhi

04 - 12 December 2023



JNTUA College of Engineering Ananthapuramu, Department of Electronic & Communication Engineering and AICTE Training and Learning (ATAL) Academy Cell, New Delhi jointly hosted a one week faculty development program on the theme “Exploring the Cutting – Edge World of Chip Design” from 04.12.2023 to 09.12.2023. Registrar Prof. C Sashidhar was the chief guest of the faculty development program and inaugurated the program by lighting the traditional lamp. Later, the registrar said that such faculty development programs are of great benefit to the faculty and students. Especially the teachers were advised to educate the students in their colleges about the things learnt here. He said that there are a lot of job opportunities for students especially on Chip Design. He said that Hands on Experience is very necessary on Chip Design and AICTE has also introduced ECE (VLSI) branch in B.Tech. course Prof. K. Nagabhushanam who participated as a special guest in this program said that it is very much necessary to learn Chip Design. He said that especially VLSI design plays an important role in the field of electronics. Students and faculty are advised to use online resources. He suggested learning Python programming. The guest

of honor for this program Dr. P. Ranga Babu IIIT D&M, Kurnool said that students should learn the latest technologies and publish in journals and patents in them. He said that students should focus on start-ups. College Principal Prof. S.V. Satyanarayana presided over the inaugural function. Prof. S. Chandra Mohan Reddy Head of the Department ECE was the convener and Dr. G. Mamatha acted as the coordinator for the program. Prof. V.B. Chitra, Prof. K. Madhavi, Rtd. Professor V. Sankar, Prof. D. Vishnu Vardhan, Dr. M. Ramasekhara Reddy, teaching staff of ECE department, faculty members from various colleges and students participated.



One-day Conference

# “Career Conference on Preparation for Competitive Examinations”

by

Department of Employment &amp; Training, Government of Andhra Pradesh

in association with District Employment Exchange / Model Career Center, Ananthapuramu

@ JNTUA College of Engineering Ananthapuramu.

Date: 02-12-2023



A one-day conference on “Career Conference on Preparation for Competitive Examinations” was organized for the students of JNTUA College of Engineering, Ananthapuramu under the auspices of Andhra Pradesh Government Regional Employment Office, Kurnool on 02.12.2023 at NTR Auditorium of JN TUniversity Anantapur. Vice-Chancellor Prof. G. Ranga Janardhana was the chief guest of this conference and started the program by lighting the lamp. After that, the Vice-Chancellor said that while studying technical education, one should know for what jobs one is qualified and be prepared with proper understanding. He said that this conference will be useful for the students studying in the college to prepare for the government jobs first of all. Rector Prof. Y. Vijaya Kumar, who participated as the guest of honor, said that one should set goal, make a plan and work hard to achieve it. He said that in the current competitive world, one should increase awareness and grasp opportunities while studying for a career. When any notification is released, they should prepare accordingly. Later, Registrar Prof. C. Sashidhar said that there are opportu-

nities to be useful for civil service and instructions should be followed. He said that practice is never useless and it transforms us in such a way that we can seize the opportunity one time or the other. Shri P. Prasad, Regional Employment Officer, Kurnool and College of Engineering Anantapur 1980 – 84 Batch alumnus said that this conference is meant to create awareness to prepare for Competitive Exams specially to join Civil Service after studying engineering. He said that we should remove negative thoughts from our mind about why certain jobs are not coming to us. College Principal Prof. S.V. Satyanarayana presided. In this program, the principal of the college, Prof. S.V. Satyanarayana, Vice Principal Prof. E. Arunakanthi, FA & AM Director Prof. P. Sujatha, Regional Employment Office Mr. Srinivasulu SVU Region, Ms. P. Revathi Kurnool DEO (District Employment Officer), Ms. A. Kalyani Anantapur DEO (District Employment Officer), Retd. Professor V. Sankar, Placement Officer Dr. A.P. Siva Kumar, Dr. S. Chandra Mohan Reddy, Dr. Anka Rao, Dr. Kalyani Radha, Dr. B. Dilip Kumar, Mrs. Ajitha, faculty members and students participated.



## Second Meeting of JNTUA Finance Committee

@ JNT University Administrative Building.

Date: 05-12-2023

The second meeting of the Finance Committee of JNTU Anantapur was held on 05.12.2023 in the Conference Hall under the chairmanship of Vice-Chancellor Prof. G. Ranga Janardhana. The Vice-Chancellor said that many important decisions were taken in this meeting. Especially Elloora Boys Hostel Renovation and Repair Works have been approved. Shilpa Girls Hostel renovation and repair works, Hampi Hostel Furniture Works were approved. On this occasion, the Vice-Chancellor said that tenders will be issued soon for all the works mentioned above. In this meeting, Registrar Prof. C. Sashidhar, the members of the governing board, Dr. D. Harischandra Rama, Prof. B. Durga Prasad, Mrs. Anjali James, Prof. N. Visali, Mr. Mohammed Sirajuddin and others participated.



## JNTUA CEA NEWS



**JNTUA CEA Students Participate in 2K Run Organized by Election Commission of India as part of it's Systematic Voters' Education and Electoral Participation (SVEEP) activities.** Date: 05-12-2023

The Election Commission of India as part of Systematic Voters' Education and Electoral Participation (SVEEP) activities organized a 2K run on 05.12.2023 @ 9.00 AM from Govt. Arts College, Ananthapuramu to S.S.B.N. Degree College Ananthapuramu to create awareness among the young voters. The 2K run aimed to encourage active participation of the youth to enroll as voter and emphasize the importance of exercising their right to vote. Around 180 students from of J.N.T.U. Engineering College, Ananthapuramu dressed in white dress participated in the 2K run. Alongside the run, informative sessions were conducted to educate participants about their voting rights, the electoral

process, and the significance of responsible voting. Anantapur Joint Collector Sri. Ketan Garg was the chief guest for the program. He inspired the participants emphasizing the societal importance of voting and civic engagement. The program was also attended by the students of various colleges along with their faculty members. JNTUA College of Engineering Ananthapuramu Principal Prof S.V.Satyanarayana , Prof. B. Joji Reddy Sports Secretary, Dr. Anka Rao NSS Officer, Prof. T. Bala Narasaiah Officer Incharge of Hostels, Adhoc Faculty participated in the program along with students. Prof. S.V. Satyanarayana received momento on behalf of the college from the Chief Guest Sri. Ketan Garg.



## Lifetime Achievement Award Conferred on Prof. N. Ramesh Babu 1978 Batch Alumnus of College of Engineering Anantapur by IITBHU, Varanasi.

Date: 08-12-2023



Dr. N. Ramesh Babu, JNTUA 1978 batch received Lifetime Achievement Award in a function at IITBHU, Varanasi. In recognition of Dr. N. Ramesh Babu's outstanding contributions to the growth of manufacturing research, education, industrial practice, service to the society, as well as All India Manufacturing Technology, Design and Research (AIMTDR) activities, the organizing committee conferred the "Life Time Achievement Award" of AIMTDR 2023 on him.

### Achievements of Dr.N. Ramesh Babu

Dr. Ramesh Babu, N. is an Emeritus Professor at the Indian Institute of Technology Madras and Honorary Professor at College of Engineering, Swansea University, UK since 2021. He holds B.Tech in Mechanical Engineering from Jawaharlal Nehru Technological University, Anantapur, M.E. from Indian Institute of Science and Ph.D from Indian Institute of Technology Madras. He is responsible for setting up a Centre of Excellence on Machine Tools and Production Technology at IIT Madras Research Park in partnership with machine tool industries and the Ministry of Heavy Industries, Govt. of India and is heading the Advanced Manufacturing Technology Development Centre. He is passionate about trans-

lational research and successfully contributed to the development of high precision grinder, hydrostatic systems, robots, high precision machines in collaboration with Indian machine tool industries. Over the past three decades, he served as the consultant for many multinational companies in offering manufacturing automation solutions.

Dr. Ramesh Babu has published more than 200 papers in international, national journals and conferences of repute and guided 22 Ph.D., 16 M.S., and 70 dual degree & M.Tech students. He has organized the 19<sup>th</sup> AIMTDR and 2<sup>nd</sup> International & 23<sup>rd</sup> AIMTDR conference as the organizing secretary and four international conferences on frontier areas like Water Jet Technology, Sustainable Manufacturing, Automation & Robotics. He has been actively involved in all the AIMTDR conferences since 1986 and offered unwavering support to the AIMTDR movement. He has made significant contributions to many R&D projects funded by MHRD, DST, ARDB, ISRO, BARC, DAAD, Volkswagen Stiftung. He was invited to the International Academy of Production Engineers (CIRP) General Assembly and organized various events of SME and ASME Conferences on advanced manufacturing. He has about 7 patents and 2 copyrights on grinding, hydrostatic systems, thermal compensation strategy, and two Indian patents filed in water jet machining field.

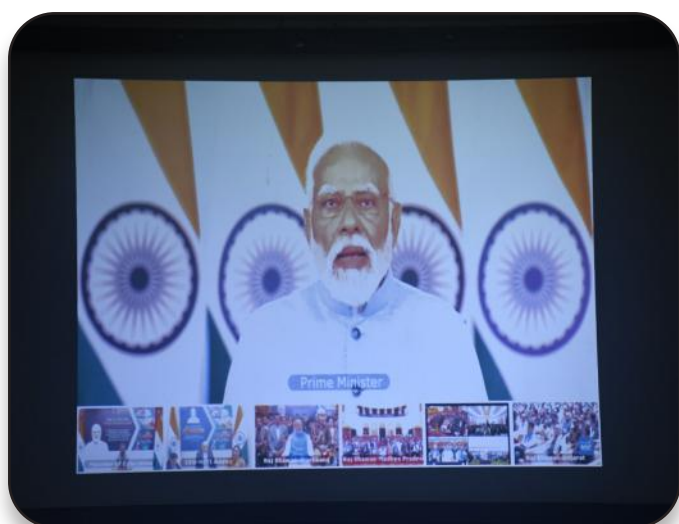


Hon'ble Vice Chancellor Prof. G. Ranaga Janradhana, Registrar Prof. C.Sashidhar, Prof.S.V.Satyanarayana Principal of JNTU-ACEA, principals of autonomous affiliated colleges attended 'Viksit Bharat @2047-Voice of Youth' workshop held at Raj Bhavan, Vijayawada on 11<sup>th</sup> December 2023. The workshop was webcasted live throughout the country via a weblink provided by NITI Aayog, Government of India and was viewed live by the students and faculty members of all affiliated and constituent colleges of the University in big screens at their respective colleges.

Governor of Andhra Pradesh Sri S. Abdul Nazeer has participated as Chief Guest at the workshop. The workshop was attended by the Vice Chancellors of Central, State and Deemed-to-be Universities, Directors of IIT, IIM, IIIT, Registrars, Deans, Rectors, Faculty Members, Principals of various colleges, from the State, and students of various universities and colleges participating in the workshop virtually from their respective locations. The Prime Minister, Shri Narendra Modi launched 'Viksit Bharat @ 2047: Voice of Youth' via video conferencing at the beginning of the workshop. During the program, Prime Minister Modi addressed the Vice Chancellors of Universities, Heads of Institutes and faculty members to mark the beginning of this initiative. The Prime Minister lauded the Governors for bringing together all the stakeholders who hold the responsibility of guiding the youth of the nation in accomplishing the goal of Viksit Bharat 2047. He

highlighted the role of educational institutions in the personality development of an individual and said that a nation becomes developed only with the development of its people.

Addressing the participants, Governor Sri Abdul Nazeer has said that India is at the cusp of the moment in this 'Amrit Kaal' and the decisions and actions undertaken during the "Amrit Kaal," will have a profound and lasting impact on the future millennium. In due course of time, India is going to be the provider of largest workforce in the world and with a population of 144 crores, India is one of the youngest nations with a median age of 29 years, said the Governor. He further said it is necessary to channelize the innovative ideas of youth into nation-building by inviting them to ideate and contribute to the vision of Viksit Bharat by 2047. This outreach initiative will provide an opportunity to lakhs of youth across the country and the power of the youth should be harnessed and motivate them to actively participate in this ambitious programme of 'Viksit Bharat @ 2047 - Voice of Youth.' said the Governor. He said that the youth should be made partners in drawing up a vision for the future of India by organizing Seminars, Conferences, Debates, Group Discussions, etc. and guide them in submitting their thoughts and responses on the critical question of How should a Viksit Bharat look like in 2047 in different aspects? What do we need to do to reach this goal? What can she / he do to make Viksit Bharat@2047 possible? by filling up online forms available at mygov.in portal.



DATE: 11.12.2023. Launching of Viksit Bharat @ 2047 by Hon'ble Prime Minister Shri. Narendra Modi - Web Cast watched by faculty members and students of JNTUA CEA @ College Auditorium.

## Teaching Association of the JNTUA College of Engineering Ananthapuramu unanimously elects New Members for its Executive Committee

**Date: 13-12-2023**

**T**he Teaching Association of the JNTUA College of Engineering Ananthapuramu unanimously elected the New Members of its Executive Committee on **13.12.2023** consisting of Dr. T. Narayana Reddy as President, Dr. K Jayalakshmi as Vice President, Dr. S. Sharada as Secretary, Dr.

A.P. Siva Kumar as Joint Secretary, Dr. D. Vishnu Vardhan as treasurer. Vice-Chancellor Prof. G. Ranga Janardhana and Registrar Prof. C. Sashidhar, College Principal Prof. S.V. Satyanarayana, Vice Principal Prof. E. Arunakanthi congratulated the newly elected members.



## Late Sri Amarajeevi Potti Sriramulu Birth Anniversary Celebrations

**@ JNT University Ananthapuramu.**

**Date: 15-12-2023**



**L**ate Sri Amarajeevi Potti Sriramulu birthday was celebrated in the J.N.T.U. Anantapur Administration Building on **15.12.2023**. Floral tributes were paid to the portrait of Potti Sriramulu by Vice-Chancellor Prof. G. Ranga Janardhana and Registrar Prof. C. Sashidhar, senior officials and staff members of the university. On this occasion, the vice chancellor said that Sri Potti Sriramulu was on a fast to death for the formation of the Andhra state and gave up his life. Potti Sriramulu was hailed as a person who played a prominent role in the freedom struggle and risked his life for 58 days on a fast to death for the creation of a separate Andhra state. He

said that everyone should imbibe the qualities of this great personality. Registrar Prof. C. Sashidhar, University Directors Prof. E. Keshav Reddy, Prof. Eswara Reddy, Prof. Kiranmayi, Prof. N. Visali, Prof. Padma Suvarna, Prof. A. Suresh Babu, Prof. C. SobhaBindu, Prof. P. Sujatha, Prof. G.V. Subba Reddy, College Principal Prof. S.V. Satyanarayana, Vice Principal Prof. E. Arunakkanthi, Prof. B. Chandra Mohan Reddy, Prof. G.Y.S. Raju, Dr. K.F. Bharathi, Dr. M. Ramasekhara Reddy, Dr. S. Sharada, DR Sri Madhusudhana Reddy, teaching, non-teaching and outsourcing staff participated.





## Fresher's Day 2023 Celebrations

@ Department of M.B.A, School of Management Studies  
JNT University Ananthapuramu.

Date: 15-12-2023

**S**chool of Management Studies Department of MBA, J.N.T.U. Anantapur held its Fresher's Day Program at Engineering College Auditorium on 15.12.2023. Vice-Chancellor Prof. G. Ranga Janardhana attended the program as the chief guest and started the program by lighting the Jyoti. Later, the Vice-Chancellor addressed the students and told about the benefits of MBA and how it will be useful for management students to utilize their time. Addressing the management students, he said the need for communication and management skills. He said that MBA students have great leadership qualities. He reminded that MBA students have many opportunities and should make the most of them. He said that management students should embrace the changes in technology and take advantage of many opportunities. He said that every student should go forward with ideas to create jobs rather than just looking for a job. Registrar Prof. C. Sashidhar was the guest of honor and said that in today's competitive world he explained about having the abilities and skills to deal with. Students are aspired to grow as entrepreneurs. He asked the first years to look at the senior students and follow their suggestions and instructions to

contribute to the progress of the Department. MBA Head Dr. T. Narayana Reddy expressed happiness and talking about placements he said that many senior students and current final semester students have got jobs in famous MNC companies like Wipro, Tata, TCS, ITC, JIO etc. Juniors were welcomed on the occasion. He said that seniors and juniors should get along amicably. Teachers Dr. Lakshmanna, Dr. Basaiyah, Dr. Jayarami Reddy, Dr. Viswanath, Ms. Srilata, Dr. Varalakshmi, Dr. Himabindu and other teachers participated in this program.



Oil painting\_Figure Painting : Ms. Neha Mallika, Assistant Professor(C),  
Department of Chemical Engineering, JNTUA CE Ananthapuramu.



## JNT University Anantapur makes Appointments on Compassionate Grounds

Date: 15-12-2023

Smt R. Kavitha has been appointed as attender on compassionate grounds after sudden demise of her husband Sri. R. Sundar Singh tele-mechanic working at JNTUA College of Engineering Ananthapuramu. Appointment order documents were handed over to her on 15.12.2023 by JNTU Vice-Chancellor Prof. G. Ranga Janardhana. Registrar Prof. C. Sashidhar, College Principal Prof. S.V. Satyanarayana, AR Sri. Murali Mohan Rao were present on the occasion.



Date: 21-12-2023

Sri S. Murthy Prasad has been appointed as a junior assistant on compassionate grounds after the sudden demise of his father Sri S Muthyallapa, a sweeper at JNTUA College of Engineering.

Sri A. Shiva Sai Kumar has been appointed as a typist on compassionate grounds after the sudden demise of his mother Smt. A Sushilamma, a sweeper at JNTUA OTPRI College, Ananthapuramu.

Both of them received appointment orders on 21.12.2023 from Hon'ble Vice Chancellor Prof. G. Ranga Janardhana. Registrar Prof. C. Sashidhar, College Vice Principal Prof. E. Arunakanthi, OTPRI Director Prof. B. Durga Prasad, University AR Murali Mohan Rao were present on the occasion.



## News from Constituent Units

### JNTUA CE Pulivendula



**Publication:** Poli Sainath Reddy, R Bhavani "Hydrological Modeling of Urban Flooding in Nandigama: Land Use Dynamics and Climate Influence" IOP Conference Series Earth and Environmental Science. 1280 012056. [https://doi:10.1088/1755-1315/1280/1/012056](https://doi.org/10.1088/1755-1315/1280/1/012056).

**Book Title:** DIGITAL SYSTEM DESIGN - THEORETICAL APPROACH

ISBN : 978-81-965203-4-2

Publishers: Indo-continental Academic Publishers

Authors: Dr. Shaik Taj Mahaboob, Mr. K Siva Chandra, Mr. K Ravindra Reddy.



**Ms. Y .Yamini Yadav student of Electrical & Electronics Engineering at JNTUA College of Engineering Ananthapuramu selected for Republic Day Camp @ New Delhi**

**Date: 22-12-2023**



Ms. Y. Yamini Yadav

**M**s. Y .Yamini Yadav a final year B.Tech. student of Electrical & Electronics Engineering Department at JNTUA College of Engineering Ananthapuramu has been selected for Pre-Republic Parade Camp at New Delhi. Ms. Yamini Yadav will be leaving for New Delhi on 31<sup>st</sup> of December and will return back to Anantapur on 31<sup>st</sup> January 2024. She is attending the camp for a period of one month. Ms. Y. Yamini Yadav joined NSS in 2022. The student was congratulated by Hon'ble Vice-Chancellor Prof. G. Ranga Janardhana on 22.12.2023. The

meeting was held at the Vice Chancellor's conference hall. Rector Prof. M. Vijaya Kumar, Registrar Prof. C. Sashidhar, Prof. N. Visali, Principal Prof. S.V. Sathanarayana, and NSS Coordinator Dr. Sharada, were present on the occasion and congratulated the selected student.



**JNTU Anantapur Colleges host 'Aadudam Andhra' Sports Festival**

**organized by**

**Sports Authority of Andhra Pradesh, Government of Andhra Pradesh**

**26-12-2023 TO 10-02-2024**

**J**NNTU Anantapur Constituent Colleges are playing a host for the 'Aadudam Andhra' sports festival being organized by the Sports Authority of Andhra Pradesh from December 26, 2023 to February 10, 2024. Hon'ble Chief Minister Y.S. Jagan Mohan Reddy declared open the 47-day sports festival on 26<sup>th</sup> December at the Loyola Public School grounds at Nallapadu in Guntur district.

Speaking on the occasion he said that the sports festival would go down as a milestone in the history of Andhra Pradesh. "The government is organising the sports festival with two objectives in mind. Firstly, it is meant to serve as a massive fitness exercise for the youth and help them maintain good physical health. Secondly, it would also help the government identify youth with potential so that further steps can be taken to encourage them," the Chief Minister said. The festival is held at over 9,000 school, college, university and SAAP (Sports Authority of Andhra Pradesh) playgrounds, an awareness campaign would be launched on the benefit of adopting an active physical lifestyle and taking up an outdoor sport in order to ensure good health. 34 lakh youth have signed up to participate in the sports events in all while over 1.20 crore people have registered to attend and watch the sports festival across the State.



Photo: Welcome Arch of Aadudam Andhra @ JNTUA CEA, Ananthapuramu

## Indian Institute of Bridge Engineers, Mumbai Student Chapter Inaugurated @ Department of Civil Engineering, JNTUA CEA, Ananthapuram Date: 29-12-2023

The student chapter of Indian Institute of Bridge Engineers (IIBE), Mumbai is started in the Department of Civil Engineering, JNTUA College of Engineering on 29.12.2023. The inaugural function was held in the seminar hall of the Civil Engineering, with Prof. G. Ranga Janardhana Vice Chancellor of JNTUA as the Chief Guest and the other dignitaries who graced dias are Dr. K.R. Jai Gopal, Chairman, IIBE, Karnataka Chapter, Prof. S.V. Satyanarayana, Principal, JNTUA College of Engineering, Prof. C. Sasidhar, Registrar JNTUA and Smt.B. Ajitha Head, Department of Civil Engineering. The inauguration was attended by Prof. H. Sudarsana Rao, MoRTH Chair Professor and Prof. P.R. Bhanu Murthy, Special Officer of M.Tech. Structural Engineering (Bridges and Tunnels). The meet-

ing was also attended by the faculty members of various departments as well as M.Tech. students. After the inaugural session an expert lecture on 'Planning of MRT Systems, A Study' was delivered by Sri. N.L. Sharma, Chief Engineer (Retd.) BMRCL, Bangalore.



## JNTUA CEA NSS NEWS



### Winners of Essay Competition 'Education with Humanistic Values'

by Sathya Sai Seva Organization, Ananthapur @ JNTUA CEA, Ananthapuram.  
Date: 30-12-2023



JNTU College of Engineering Ananthapur organized an essay competition for students on the topic 'Education with Humanistic Values' under the auspices of Sathya Sai Seva Organization on 27.09.2023. A total of 40 students participated in this competition. The results of the competition were declared on 30.12.2023. Ms. D. Bhavana (student of ECE Department) got first position. Ms. Zeba Kausar (student of Chemical Engineering Department) got second position and Ms. Jahnvi (student

of Chemical Engineering Department) got third position. They were felicitated by Hon'ble Vice Chancellor Prof. G. Ranga Janardhana. Registrar Prof. C. Sashidhar. JNTU Ananthapur Engineering College Principal Prof. S.V Satyanarayana, College of Engineering Pulivendula Principal Prof. Ramana Reddy, NSS Program Officer Prof. G. Mamatha and University Public Relations Officer Dr. M. Ramasekhara Reddy were present on the occasion.



# JNTUA College of Engineering Kalikiri Granted Academic Autonomous Status

- A Report by Dr. M. Venkateswara Rao



**J**NTUA College of Engineering Kalikiri is granted Academic Autonomous Status for three years from 2023-2026. The Standing Committee for Academic Senate and the Executive Council of the University approved to grant the Academic autonomy to the college. Having been given the autonomy, the institution is enabled to frame its own syllabus based on the market and industrial needs. It helps in developing quality based Curriculum which the recruiters look for in their candidates. As the institution is now liberal to frame the syllabus including Professional and Open Electives, the student enhances his/her exposure to the industrial needs. As the Academic autonomy enhances the reputation of any institution worldwide and promotes quality education for its students' excellence, the recruiters are also keen to employ the graduates from such institutes. The autonomous status further exposes the student to practical hands on experience, preferred by the employers.

The college is conferred the autonomous status based on the regulations of the University Grants Commission (UGC), New Delhi. The Syllabus of the college is framed by the Board of Studies (BoS), functioning under the Governing Body (GB) and the Academic Council (AC). Based on the rules of State Government and the University, the Governing Body fulfills the objectives of the institution. The institution's Governing Body is headed by its Chairperson Prof. K. Lal Kishore, former Vice Chancellor, JNTU Ananthapur. It also constitutes an educationist, an industrialist and a professional nominated by the University; Teachers and Administrative staff of the college, State Government nominee, a Professor from the University and the Principal of the College.

The Academic Council is chaired by the Principal. The members are Heads from all departments, four Teachers of the college, representatives from the Industry, Commerce, Law, Education, Medicine, Engineering, Sciences etc., nominated by the Governing Body; three nominated Professors of the University, Controller of Examination of the institution and the Member Secretary who is a faculty member nominated by the Principal. The Academic Council scrutinizes to approve or reject the proposals made by Board of Studies regarding Courses of study, Academic regulations, Curricula, Syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant thereto, etc.,. It makes regulations related sports, extra-curricular activities, recommends to the Governing Body. Further, the Academic Council suggest to the Governing Body, matters related to the academic affairs.

The Chairperson of the Board of Studies is Head of the concerned department and the members are all faculty members of the concerned department, two subject experts from the University who are nominated by the Principal to the Academic Council. One representative from industry/corporate sector/allied areas, nominated by the Principal. One member of the College alumni, nominated by the Principal. The Board of Studies make recommendations to the Academic Council related to Courses of studies, improving standards of teaching and research and the matters regarding the academics.

Involvement of professionals from different areas of knowledge helps in the holistic development of the Institution and its students.

## About the Author



**Dr. M. Venkateswara Rao** is the Principal of JNTUA College of Engineering Kalikiri. Since 2019, he has been work-

ing as a Professor with the Department of Electrical and Electronics Engineering at JNTUA College of Engineering Kalikiri Annamayya District, Andhra Pradesh. He obtained Masters and Ph D degree from Jawaharlal Technological University Kakinada. He is having 24 years of Teaching and Research experience.

**Srinivasa Ramanujan Institute of Technology**  
Anantapur District - 515 701



- On 01/12/2023, NCC INVESTITURE DAY activity held by NCC ANO Lt. H. Sumitha with the Chief Guest as 6 Andhra Battalion Col. Rodriguez.
- An SRIT talent test named Srinivasa Ramanujan Intelligence Test on 03/12/2023 in coordination by H&S Dept.
- The 3<sup>rd</sup> installation ceremony of Rotaract Club of SRIT was organized for the incoming president Rtr. N. Mohammad Shoheb and outgoing president Mr. Ganesh along with his team were honored for their excellent job. The newly appointed President was welcomed with Collar on 06/12/2023.

A 6 day Faculty Development Program has been conducted by Dept. of Civil Engineering – ATAL FDP, by AICTE from 11/12/2023 to 16/12/2023.

**Madanapalli Institute of Technology & Science**  
Annamayya District - 517 325



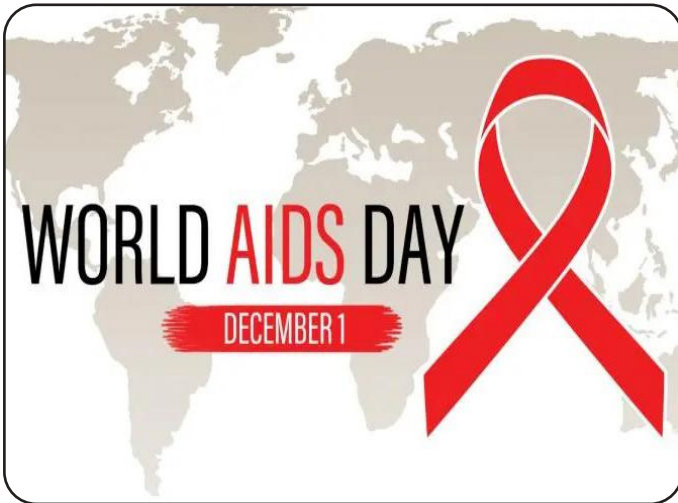
organized by CSE-Data Science on 02.12.2023.

- A one-day Industrial Visit to “BSNL, Meenam-bakam, Chennai”, was organized by Department of Artificial Intelligence on 02.12.2023.
- An Awareness Program were conducted on “National Pollution Control Day” held on 02-12-2023 organized by Department of Civil engineering.
- A Two-day IEEE “International Conference on Optimization Techniques for Learning (ICOTL’23)” Organized by School of Computers, MITS held on 7<sup>th</sup> & 8<sup>th</sup> December 2023.
- A six days AICTE-ATAL sponsored FDP on “Sustainable Machining for Tomorrow: Machine Learning Based Approach” Organized by Department of Mechanical Engineering from 11.12.2023 to 16.12.2023.

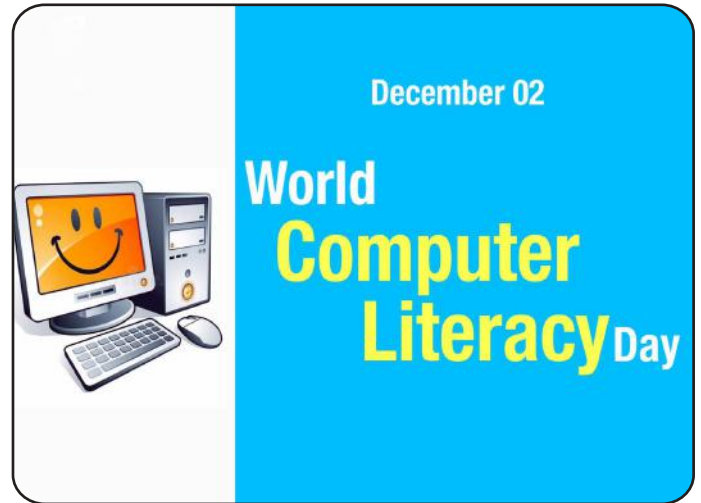
- Department of ECE organized mini project expo, on 11/12/2023. ECE, II B. Tech I Semester from 2.00PM to 4.30PM at A-Block 2nd floor Labs, SRIT.
- On 11/12/2023, Dept. of ME has conducted a program named “VIKSIT BHARATH 2047” in association with IIC.
- On 11/12/2023, Dept. of ME has conducted a seminar named “sustainable energy technologies on the occasion of national energy conservation day”.
- The Department of CSE, CSM & CSD in association with IIC has conducted invited talk on intelligent computing - current paradigm of science on 12/12/2023.
- On 14/12/2023, SRIT conducted an activity in association with NSS named “NSS - ENERGY SAVING”.
- On 22/12/2023, Dept. of H&S conducted an event named “National Mathematics Day – 2023”.
- On 23/12/2023, SRIT (A) conducted Alumni Day, by inviting the College Alumnus with the theme of “The Birds are back”.
- Women Empowerment Cell of SRIT conducted a awareness program with Dr. M. Udayani from KIMS Savera Hospital. The is about Gynecology Cancers Awareness conducted on 26/12/2023.

- A faculty interaction programme with Dr. Manas Das, Associate Professor, ME Dept., IIT Guwahati organized by Department of Mechanical Engineering on 13.12.2023.
- Prof. C Yuvaraj, Principal of MITS has been awarded as “University Best Principal Award – 2023” from the Honorable Vice Chancellor Prof. G. Ranga Janardhana during the Award Ceremony at JNTUA, Ananthapuramu on 13.12. 2023.
- An Awareness were conducted on “Drug Abuse and Mandal Level NCORD Meeting” organized by NSS Cell-MITS in association with Revenue Department Kurabalakota, AP Police, Mudivedu on 13.12.2023.
- A one-day workshop titled “Research Proposal Writing” was organized by Department of Mechanical Engineering on 14.12.2023.
- A one-day Industrial visit to “Rayalaseema Thermal Power Project (RTPP)”, Andhra Pradesh, organized by Department of Electrical Electronics Engineering on 18.12.2023.
- An Awareness program were conducted on “Viksit Bharat@2047” organized by NSS Cell-MITS on 19.12.2023. To encourage the students to register in mygov.in and to participate in <https://innovateindia.mygov.in/viksitbharat2047/>
- A one-day Seminar on “Writing & Publishing a Research Paper- Research Paper Guide” organised by Department of Computer Applications on 20.12.2023.

# Important National & International Days in December



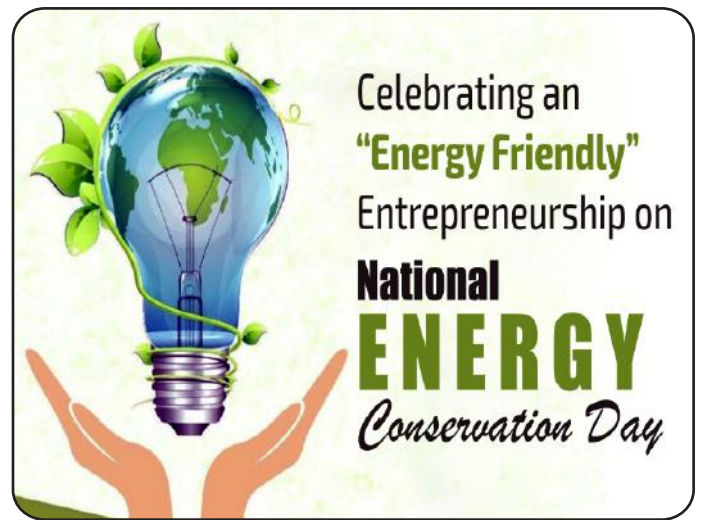
World AIDS Day is observed on 1 December every year to raise awareness and knowledge about HIV and a call to move toward ending the HIV epidemic.



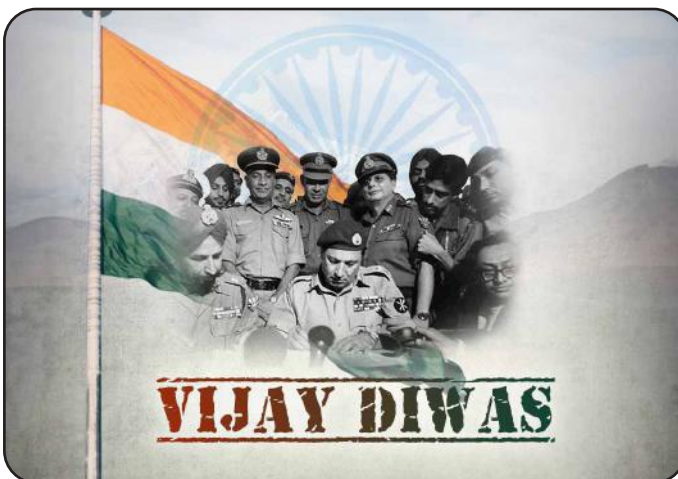
It is observed on December 2 and aims to encourage the development of technological skills, mainly among children and women in India.



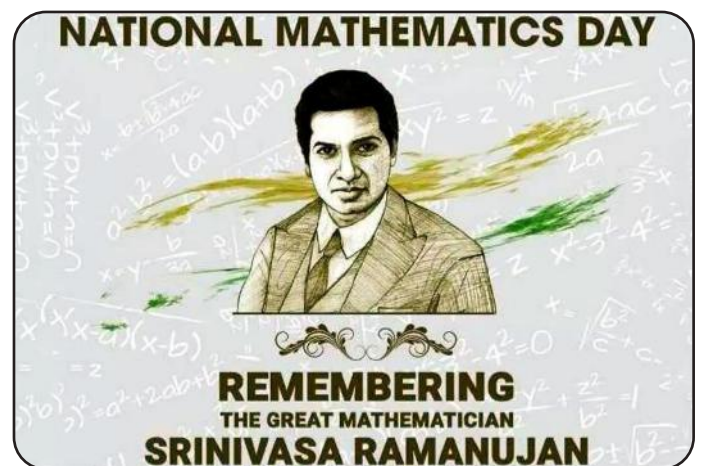
Armed Forces Flag Day is observed across the country on 7 December with the objective of collecting funds from the common people and honoring the martyrs and the men who fought with bravery on the borders to safeguard the country's honor.



It is observed on 14 December to raise awareness about the need for energy and its conservation in daily life. Since 1991, it is celebrated every year on 14 December by the Bureau of Energy Efficiency (BEE), under the Ministry of Power, GoI.



Vijay Diwas is celebrated on 16 December in India to remember the martyrs, and their sacrifices, and to strengthen the role of armed forces for the cause of the nation.



National Mathematics Day is celebrated on 22 December annually to commemorate the birth anniversary of the famous mathematician Srinivasa Ramanujan. He had made remarkable contributions to various fields of Mathematics and its branches.



# APSCHE

Andhra Pradesh State Council of Higher Education

From the  
*Chairman's Desk*



## Educating the Heart

Aristotle said, "Educating the mind without educating the heart is no education at all." Educating the heart refers to the significance of not only focusing on developing the cognitive aspects (brain) but also developing those qualities that make us human (heart), ultimately leading us towards finding meaning in our lives. The goal of education is enlightenment and, enlightenment can't be achieved only by educating the mind. To ensure the complete and holistic development of a personality, educating the heart with values like empathy, compassion, rationality, humanity, accountability, integrity, etc. becomes indispensable. These values become more relevant in this 21st century world that is digitally advanced and moving at a fast pace.

Marian Wright Edelman said, "Education is for improving the lives of others and for leaving your community and world better than you found it." Science clearly shows that teaching students such as empathy, compassion, altruism, and kindness helps them to be successful in professional and personal lives. With an intention to transform the students into empathetic citizens with responsibility towards their fellow beings, the government of Andhra Pradesh introduced a 2-months mandatory Community Service Project (CSP) internship with 4 credits. This CSP tries to bridge the gap among the community and students. We have introduced APSCHE Excellence Awards (Community Service Award) in 2022 to reward students for their contribution towards society. Start engaging with the community by sharing your knowledge, transferring technology, optimizing resources, promoting business ideas, etc. Giving your time and knowledge to the community, and simultaneously learning from them shall be our goal. You can immerse yourself with the community for mutual learning only if you have educated your heart. That's true education, which helps the society to get rid of prejudices, superstitions, etc., and become rational human beings.

I urge my student friends to seriously pursue educating your heart. A truly educated person is one who understands the purpose of creation, and works with intelligence for the benefit of everyone. Educating the mind and heart helps to bring wisdom and enlightenment among the people. Mere education of mind may build technical expertise but not humanity. Cyber Criminals and Terrorists these days are intellectually talented but illiterate when it comes to value education. Hence, educating the mind without educating the heart creates only clever devils. In the present context, where education is highly technical, competitive, and textbook-oriented, educating the heart is mostly neglected. Educating the mind sharpens our academic performances while educating the heart helps us in becoming an empathetic human being. Thus, educating the heart is far more necessary than educating the mind.

To conclude in the words of Charlie Chaplin in The Great Dictator which are relevant today,

*"Our knowledge has made us cynical. Our cleverness, hard and unkind. We think too much and feel too little. More than machinery we need humanity. More than cleverness we need kindness and gentleness. Without these qualities, life will be violent and all will be lost..."*

బతుకను పెనుపోరులోన  
క్షతగాత్రులు దీనజనులు  
సాహార్ష్య హృదయంతో  
స్వాంతన కలిగించలేని  
చదువెందుకు? మెదడెందుకు?  
మానవుడని పేరెందుకు?

**Prof. K. Hemachandra Reddy**  
Chairman, APSCHE

# Tech Ananth

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