



# NEURANEX

July-Dec (vol-1)

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (AI&ML)

*Jyothishmathi Institute of Technology & Science started its academic journey in 1997 with a quest to impart technical education to the rural youth. The commitment towards providing the highest quality of education through innovative teaching methods to its students has always brought laurels. Jyothishmathi Institute of Technology and Science (autonomous), Karimnagar, has signed a Memorandum of Understanding (MoU) with T-Hub, Talent Farm, TASK, Edunet Foundation, and SAP - Centre of Excellence in Hyderabad.*

### MAGAZINE OVERVIEW

|                             |    |
|-----------------------------|----|
| • Landmark Achievements     | 1  |
| • Silver Jubilee            | 3  |
| • Faculty News              | 7  |
| • sRjanA Nirmaan-2022       | 20 |
| • Beyond Classroom Horizons | 21 |
| • Technical content         | 26 |
| • Student Corner            | 27 |
| • Editor's Note             | 28 |

**Sri Juvvadi Sagar Rao**

Chairman

**Sri Juvvadi Sumith Sai**

Secretary & Correspondant

**Dr. K.S. Rao**

Principal

**Dr. P. K. Vaishali**

Dean(Academics & Audit)

**Dr. V.Neelima**

HOD-CSE(AI&ML)

### INSTITUTE VISION

To be a premier engineering institution striving continuously to deliver quality technical education, nurturing competent engineers capable of achieving global excellence with societal consciousness

### INSTITUTE MISSION

- To embrace emerging teaching techniques that equip students to face technical challenges with confidence and competence.
- To cultivate a culture of innovative thinking that inspires students to develop creative solutions to real-world problems.
- To instil leadership qualities and foster an entrepreneurial mindset in students, enabling them to contribute positively to society.

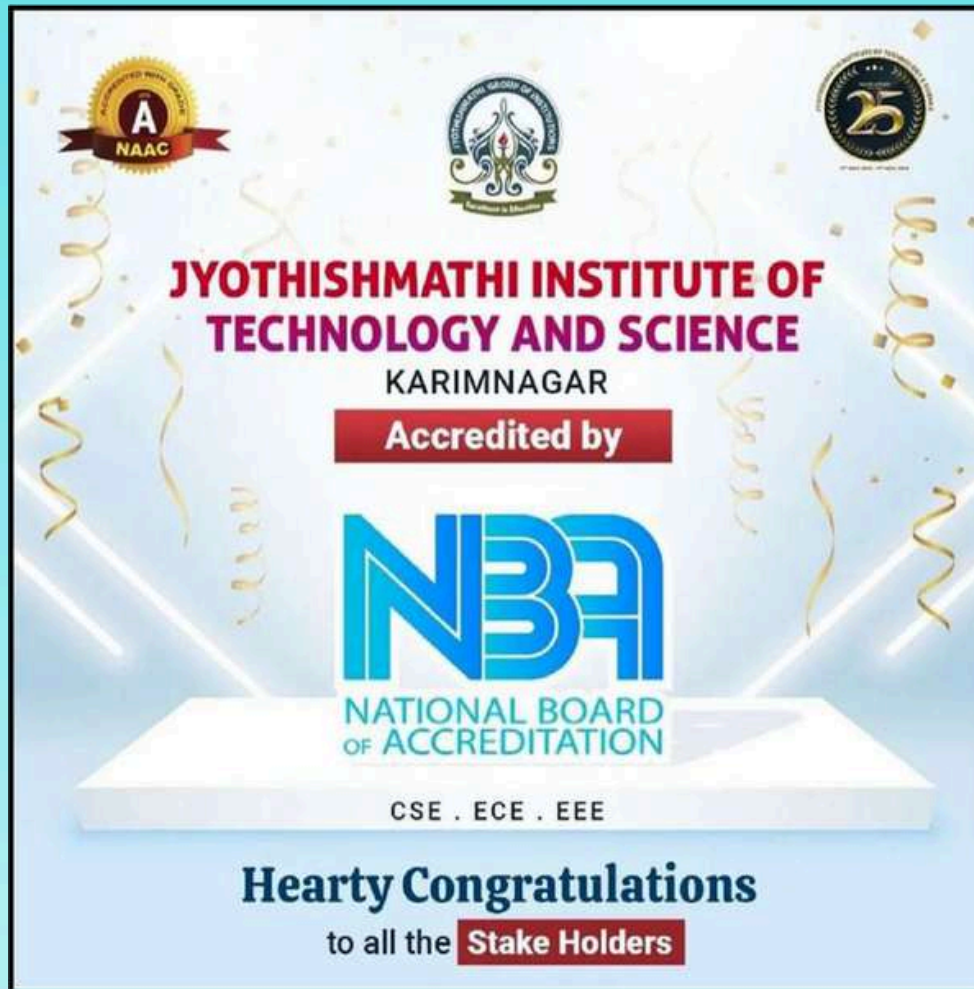
### DEPARTMENT VISION

To emerge as a center of excellence in Artificial Intelligence and Machine Learning, offering quality technical education that empowers future innovators to achieve global excellence and drive intelligent solutions for societal advancement

### DEPARTMENT MISSION

- To provide quality education in AI and ML, equipping students with advanced computational skills to excel in a globally competitive environment.
- To foster a spirit of innovation and critical thinking, enabling students to develop practical solutions that benefit society.
- To promote strong collaborations with industry and academia, nurturing an entrepreneurial mindset and continuous professional growth in the field of AI and ML.

# LANDMARK ACHIEVEMENTS



***We are delighted to share that Jyothishmathi Institute of Technology and Science (JITS) has achieved yet another milestone by earning accreditation from the National Board of Accreditation (NBA). This accreditation is a testament to our commitment to academic excellence, quality education, and continuous improvement.***

***In our relentless pursuit of providing top-notch education, JITS has successfully met the stringent standards set by the NBA. This accreditation reaffirms the high quality of education imparted at our institution and recognizes our efforts in ensuring that our academic programs meet the global benchmarks.***

***We extend our heartfelt thanks to everyone who has been a part of this journey, including our students, faculty, staff, alumni, and well-wishers. Your support has been instrumental in helping us achieve this significant milestone. We look forward to scaling new heights and setting even higher standards for academic excellence in the years to come.***

# LANDMARK ACHIEVEMENTS



*We are thrilled to share a momentous achievement that marks a new chapter in the history of our esteemed institution. It is with great pleasure that we announce our college has been granted Autonomous status by the University Grants Commission (UGC). This distinction not only makes us proud but also sets us apart as the first engineering college in Karimnagar District to receive this esteemed recognition.*

*The attainment of Autonomous status stands as a testament to our relentless pursuit of academic excellence, originality, and the empowerment of our students. This recognition offers a host of benefits, providing our institution with increased academic independence and flexibility. We are confident that this newfound autonomy will enable us to deliver a forward-thinking educational experience that aligns with the evolving demands of tomorrow.*

*This achievement is not just a milestone for the institution but a shared success, made possible by the collective efforts of our dedicated students, faculty, staff, supportive alumni, and well-wishers. Their unwavering assistance, dedication, and motivation have played a pivotal role in our journey.*

*As we embrace this significant stride forward, we extend our gratitude to everyone who has been part of our success story. The future holds exciting possibilities, and we are committed to continuing our legacy of academic distinction and innovation.*



# SILVER JUBILEE

As we unfold the narrative of our Silver Jubilee celebrations, from the innovative brilliance showcased in TECHNOSIS, featuring intercollegiate technical and cultural competitions, to the enlightening insights of the Guest Lecture Series, the dynamic spirit of the SPORTS FIESTA, the joyous reconnections and forging of new bonds in the Alumni Meet, the strategic moves made in the Telangana State Level Chess Tournament, and the spirited rallies of the District Level Badminton Championship, join us in reliving the moments that made our 25th year truly exceptional.

## TECHNOSIS-2022

In the grand tapestry of our Silver Jubilee celebrations, TECHNOSIS-2022 emerged as a dynamic confluence of technical brilliance and cultural vibrancy. This extraordinary intercollegiate event, held on 15th and 16th November 2022, brought together a diverse array of competitions that spanned both the realms of technology and culture, showcasing the multifaceted talents of our JITS community.

### Technical Events

#### *Coding*

The Coding Competition brought out the programming prowess of participants. This intense battle of algorithms and logic challenged participants to think on their feet and write efficient, error-free code under time constraints. A staggering 55 batches (110 students) participated, making the competition an even more vibrant showcase of talent and skill within our academic community.



# SILVER JUBILEE

## Technical Quiz

The Technical Quiz was a battle of wits, where participants showcased their knowledge in various technical domains. From coding puzzles to theoretical questions, it was a fast-paced competition testing both speed and accuracy. An impressive 36 batches (144 students) participated, intensifying the competition and adding to the intellectual excitement.



## Technical Hunt

The Technical Hunt was a thrilling exploration of technical knowledge. Participants embarked on a quest, solving clues and navigating through a maze of challenges to unveil the hidden treasures of information. In this exhilarating journey, an impressive 52 batches (104 students) participated, adding to the excitement and competitiveness of the event.





# SILVER JUBILEE

## *Paper Presentation*

In the Paper Presentation event, participants had the opportunity to showcase their research and findings. This platform encouraged students to delve into cutting-edge topics, fostering innovation and intellectual discourse. A commendable 20 batches (40 students) participated, contributing to the diversity of perspectives and research insights presented during the event.



## *AGASTYA (General Quiz)*

The AGASTYA was a comprehensive test covering a spectrum of domains. From current affairs to historical milestones, participants demonstrated their well-rounded knowledge, making it an engaging and intellectually stimulating competition. A notable 41 batches (164 students) participated, contributing to the diversity of perspectives and knowledge showcased during the event.



# SILVER JUBILEE

## Cultural Events

### *Dance Solo*

The Dance Solo event brought a modern flair to the stage. Participants dazzled with contemporary moves and expressive routines, infusing energy and creativity into the cultural festivities.



### *Dance Group*

The Dance Group event was a dynamic spectacle of collective talent. Groups choreographed vibrant routines, blending various dance styles to create a fusion of cultural diversity and modern innovation.

### *Flash mob*

In a burst of energy and synchronized moves, our talented students brought an electrifying atmosphere to the campus with vibrant Flash Mob performances. The event, held on December 2, 2022, showcased the creative prowess and unity of our student community. The Flash Mob, organized as part of our Silver Jubilee celebrations, served as a joyful expression of camaraderie and celebration. Students from various disciplines came together to choreograph and execute this lively performance, leaving an indelible mark on the memories of all who witnessed the spectacle.



### *Rangoli*

The Rangoli event transformed the canvas into a riot of colors and intricate patterns. Participants expressed their creativity through vibrant designs, turning the floor into a visual spectacle that celebrated the traditional art form of Rangoli.





# SILVER JUBILEE

## Faculty Coordinators:

The seamless execution of TECHNOSIS-2022 was guided by our esteemed faculty coordinators:

### Technical Events:

- Dr. R. Jegadeesan, Prof & HoD-CSE (Convener)
- Dr. N. Umapathi, Prof & HoD-ECE (Co-Convener)
- Dr. R. Rajesh Guna, Prof & HoD-Civil (Co-Convener)

### Cultural Events:

- Mr. R. Ramakrishna, Assoc Prof-ECE (Convener)
- Dr. V. Neelima, Assoc Prof-CSE (Co-Convener)

## Student Coordinators:

Leading the way for TECHNOSIS-2022 were our student coordinators:

### Technical Events:

- Ms. R. Rupini, IV B.Tech CSE
- Ms. M. Prathima Rao, III B.Tech CSE

### Cultural Events:

- Ms. V. Siri Chandana, IV B.Tech CSE
- Ms. Keerthana, IV B.TECH ECE

Their dedicated efforts ensured a harmonious celebration of knowledge, innovation, and artistic expression.

We extend our heartfelt appreciation to the respective events faculty and student coordinators for their unwavering dedication and immense support. Your commitment played a crucial role in creating an environment where our students could participate with such high enthusiasm and excellence.

## GUEST LECTURE SERIES

*Amidst the jubilant resonance of our Silver Jubilee celebrations, the Guest Lecture Series emerged as a beacon of intellectual enrichment. Renowned speakers and experts graced our institution, sharing their wisdom and insights, further illuminating the corridors of knowledge within our JITS community.*

*Guest Lecture on "Artificial Intelligence: Challenges, Opportunities, and Societal Development" by Prof. M.L Sai Kumar*

*An insightful guest lecture on "Artificial Intelligence: Challenges, Opportunities, and Societal Development" was delivered by Prof. M.L Sai Kumar, Former Dean Academics at the Institute of Public Enterprise (IPE), Hyderabad. In this event, which took place on October 18, 2022, students actively participated and engaged, gaining valuable insights into the challenges and opportunities posed by AI and its profound impact on societal development*





# SILVER JUBILEE

*The lecture offered students, faculty, and technology enthusiasts a comprehensive overview of AI's impact on society and development. Prof. M.L Sai Kumar's expertise and engaging presentation style made it a memorable and inspiring event for all attendees.*



## **Guest Lecture by Mr. A S Kiran Kumar on "Indian Space Program"**

*An illuminating online guest lecture on the "Indian Space Program" was delivered by Mr. A S Kiran Kumar, Former Chairman of the Indian Space Research Organisation (ISRO). This captivating virtual event, which took place on October 19, 2022, provided a valuable glimpse into India's remarkable journey in space exploration.*



*The online lecture offered students, faculty, and space enthusiasts an opportunity to gain insights into the achievements and significance of the Indian Space Program. Mr. A S Kiran Kumar's expertise and engaging presentation style made it a memorable and inspiring event for all attendees.*



## **Guest Lecture on "Emerging Technologies and Cyber Security"**

*An engaging guest lecture on "Emerging Technologies and Cyber Security" brought together industry experts to enlighten students, faculty, and technology enthusiasts. The event, which took place on October 20, 2022, featured prominent speakers, including Bala Prasad Peddigiri from TCS, Mr. Dasaka Chandra from CSI, and Mr. G Srinivas, Airforce Redt Wing Commander.*



# SILVER JUBILEE

The lecture offered a comprehensive overview of emerging technologies and their impact on various industries. **Mr. Dasaka Chandra** highlighted the importance of cybersecurity in an interconnected world, while **Mr. G Srinivas** provided insights into the defense and security sectors' use of technology. **Bala Prasad Peddigiri**, representing TCS, contributed expertise on emerging technologies, shedding light on their transformative potential. The interactive nature of the event allowed attendees to engage with the speakers, fostering a dynamic learning environment. The guest lecture served as a source of inspiration for aspiring technologists and those interested in the field of cybersecurity.



## Guest Lecture on “Aerospace Technology - Role of Engineers” by Dr. D Vivekananda



An insightful guest lecture on the "Role of Engineers in Aerospace" was presented by Dr. D Vivekananda, a Senior Scientist at the Indian Space Research Organisation (ISRO). The event, held on October 21, 2022, provided attendees with a valuable perspective on the contributions of engineers in the aerospace field.

The lecture served as an opportunity for students, faculty, and aviation enthusiasts to gain a deeper understanding of the aerospace sector and the crucial role that engineers play in its development. Dr. Vivekananda, drawing upon his extensive experience, shared insights into the industry.

The event's interactive setting encouraged attendees to actively participate, enhancing the overall learning environment. The guest lecture left a lasting impact, inspiring aspiring engineers and encouraging them to consider aerospace as a field of opportunity and innovation.





# SILVER JUBILEE

## **Guest lecture on 5G Communications - Applications and Research**

An informative guest lecture on "5G Communications - Applications and Research" was presented by Ft. Lt. A T Kishore. The event, held on October 29, 2022, provided students, faculty, and technology enthusiasts with a valuable opportunity to delve into the dynamic field of 5G communications. The guest lecture offered attendees a comprehensive overview of 5G technology and its impact on modern communication.



The guest lecture offered attendees a comprehensive overview of 5G technology and its impact on modern communication. Ft. Lt. A T Kishore's expertise and insights shed light on the practical applications and ongoing research in the field of 5G communications.



## **Guest Lecture on Parallel Computing on Graphs, Challenges, Solutions and Future Directions by K.Kishore**

The academic community at Jyothishmathi Institute of Technology and Science had the privilege of hosting an enlightening guest lecture on "Parallel Computing on Graphs: Challenges, Solutions, and Future Directions." The lecture, presented by Prof.

K. Kishore, offered a captivating opportunity for students, faculty, and technology enthusiasts to delve into the dynamic field of parallel computing on graphs.

Prof. K. Kishore's lecture served as an inspiration for students and aspiring technologists. It encouraged attendees to explore the vast opportunities in the field of parallel computing on graphs and to consider the evolving landscape of technology as a promising career path.



## **Guest Lecture on Infusion of Standards and Codes in Engineering Education by D.Siva Rama Raju**

Jyothishmathi Institute of Technology & Science organized a thought-provoking guest lecture on "Infusion of Standards and Codes in Engineering Education" presented by Prof. D. Siva Rama Raju from Kansas State University, USA. The event took place on November 2, 2022. The guest lecture provided students and faculty with valuable insights into the integration of standards and codes within engineering education.



# SILVER JUBILEE

## **Guest Lecture on "Missile Seekers - Introduction and Recent Advances" by Dr. Yogesh Kumar Varma**

The academic community at Jyothishmathi Institute of Technology & Science had the privilege of hosting a fascinating guest lecture on "Missile Seekers - Introduction and Recent Advances" by Senior Scientist Dr. Yogesh Kumar Varma from DRDO Hyderabad on November 5, 2022. Dr. Yogesh Kumar Varma shared valuable insights into this critical technology.

The event was marked by its interactive format, allowing attendees to actively participate and engage with the speaker. This dynamic approach created a stimulating learning environment and encouraged meaningful discussions.



## **Guest Lecture on Campus to corporate by Dr. T.P Sasikumar**

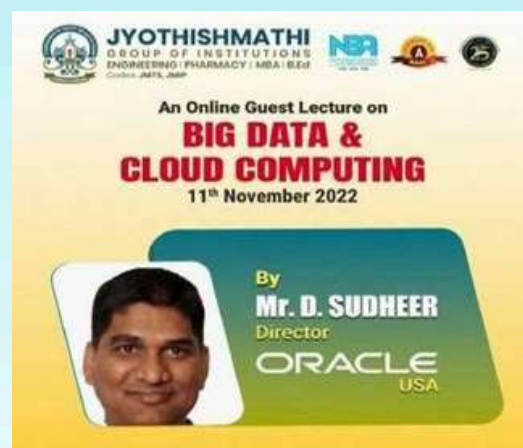
In a momentous convergence of academia and space expertise, JITS had the privilege of hosting an illuminating guest lecture titled "Campus to Corporate" by the esteemed Dr. T.P. Sasikumar, a former scientist in the Space Department. The event, which unfolded on 9 November, 2022, provided our students with invaluable insights and practical wisdom as they prepare to embark on their professional journeys.



## **Guest Lecture on Big Data and cloud computing by Mr. D.Sudheer**

A noteworthy lecture series on "Big Data and Cloud Computing" was delivered by Mr. D. Sudheer, Director at ORACLE, USA, on November 11, 2022. The event provided attendees with valuable insights into these transformative technologies.

The lecture series was a unique opportunity for students, faculty, and technology enthusiasts to delve into the world of Big Data and Cloud Computing. Mr. D. Sudheer shared his expertise and insights on these pivotal technologies.





# SILVER JUBILEE

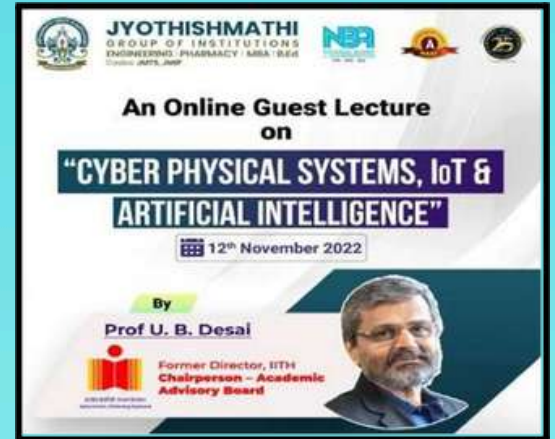
## ***Guest Lecture on Cyber Physical Systems, IOT & Artificial Intelligence by Prof. U. B. Desai***

*In an era where technology converges to shape the future, JITS had the honor of hosting a captivating guest lecture on "Cyber-Physical Systems, IoT, & Artificial Intelligence." Renowned expert Prof.*

*U.B. Desai illuminated our academic landscape with insights into the intersection of these transformative fields. The event took place on 12 November 2022, leaving an indelible mark on our pursuit of knowledge.*

## ***Guest Lecture on Seamless, Scalable, and Inclusive Location-Based Services for Communities***

*In an era dominated by technological advancements, our pursuit of knowledge took an exciting turn with an insightful online guest lecture on November 12th, 2022. Renowned speakers, Dr. Siny Joseph, Professor of Economics at Kansas State University, and Vinod Namboodiri, Professor of the School of Computing at Wichita State University, delved into the realms of "Seamless, Scalable, and Inclusive Location-Based Services for Communities."*



*The virtual event provided an engaging platform for attendees to explore the transformative potential of location-based services. Dr. Joseph and Prof. Namboodiri, experts in their fields, navigated the audience through the intricacies of creating solutions that seamlessly integrate into the fabric of communities. Their emphasis on scalability and inclusivity shed light on the evolving landscape of technology, offering a glimpse into a future where services cater to diverse needs.*

# SILVER JUBILEE

## SPORTS-FIESTA-2022

In the vibrant tapestry of our Silver Jubilee, **SPORTS FIESTA-2022** stands as a dynamic celebration of athleticism and unity. Held from November 12th to 16th, 2022, this intercollegiate sports meet infused our festivities with the spirit of competition and camaraderie, showcasing the athletic prowess and sportsmanship at the core of our JITS community. Notably, we also conducted separate sporting events dedicated to our teaching and non-teaching staff, fostering inclusivity and highlighting the diverse talents that contribute to the rich fabric of our institution.

### Cricket

The Cricket (Boys) event was a riveting display of cricketing excellence. Teams showcased powerful shots, precision bowling, and agile fielding, creating an electrifying atmosphere on the pitch. The Cricket (Girls) event was a celebration of sporting grace and talent. Teams exhibited skillful batting, strategic bowling, and nimble fielding, demonstrating the prowess of our female cricketers.



### Table Tennis

Table Tennis Singles was a showcase of lightning-fast rallies and precision strikes.

In the Table Tennis Doubles event, pairs teamed up to showcase synchronized brilliance on the table.

Participants demonstrated remarkable agility, quick reflexes, and strategic finesse on the table.

### Volleyball

Volleyball (Girls) brought grace and team spirit to SPORTS FIESTA. The event featured skillful plays, strategic serves, and coordinated teamwork on the court. Volleyball (Boys) at SPORTS FIESTA was a spectacle of power and precision on the court. Teams showcased strategic plays, powerful spikes, and robust defenses, creating an electrifying atmosphere.





# SILVER JUBILEE



## KHO-KHO

KhoKho at SPORTS FIESTA was a thrilling pursuit of glory, blending speed and strategic prowess. Players engaged in rapid sprints, strategic chases, and agile maneuvers, creating an exciting spectacle on the field. The dynamic nature of KhoKho added a touch of traditional athleticism to our Silver Jubilee celebrations, where participants showcased both physical prowess and strategic acumen in this fast-paced game.



## Carrom

Carrom at SPORTS FIESTA was a delightful display of team precision on the board. Pairs showcased synchronized moves, skillful flicks, and strategic plays, creating an atmosphere of friendly competition.

## 100 meters running

In the blistering pace of the 100m Running event at SPORTS FIESTA, athletes sprinted towards victory with unparalleled speed and determination. The track witnessed explosive starts, powerful strides, and neck-to-neck competitions as participants pushed their limits. The electrifying atmosphere and the thunderous cheers from spectators encapsulated the essence of pure speed and athleticism.



## Long Jump

In the exhilarating domain of SPORTS FIESTA, the Long Jump event stood as a testament to both power and precision. Athletes catapulted themselves into the air, stretching their limits to achieve remarkable distances.

## Shotput

Within the robust arena of SPORTS FIESTA, Shot Put emerged as a showcase of raw power and precision. Athletes exhibited immense strength as they hurled the shot, aiming for maximum distance.



## Faculty Cricket Championship

Amidst the dynamic Sports Fiesta, the Faculty Cricket Championship took center stage as part of our college's 25th-anniversary celebrations. Faculty members displayed their cricketing prowess, creating a spirited atmosphere to the showcase of power and precision.

# SILVER JUBILEE

**The seamless execution of SPORTS FIESTA-2022 was guided by our esteemed faculty coordinators:**

- CH. Sajan Rao, Associate Professor-EEE (Coordinator)
- R. Venkateshwar Rao, Physical Director (Organizing Secretary)
- Dr. D. Srinivas, Associate Professor-CSE (Co-Coordinator)
- Vishwaprakash Babu, Associate Professor-EEE (Co-Coordinator)

**Leading the way in the sports events were our dedicated student coordinators:**

- D. Bharghavi
- V. Siddarth
- K. Vignesh
- G. Naveen Chary
- B. Vijay
- V. Ananya
- G. Karthik
- M. Sagar

Their passion for sports and diligent effort ensured a dynamic celebration of athletic prowess, teamwork, and spirited competition.

## UNAKTI

In a poignant celebration of shared memories and enduring connections, JITS organized UNAKTI, an Alumni Meet, as part of its Silver Jubilee festivities. The event served as a bridge across time and space, bringing together alumni from various batches to reconnect, reminisce, and celebrate the journey that binds them to their alma mater.



The campus buzzed with the energy of nostalgia as former students revisited familiar halls and grounds. An online meet was seamlessly arranged for alumni who couldn't be physically present, ensuring that every graduate had the opportunity to be part of the Silver Jubilee celebration.

UNAKTI provided a platform for former students to share their diverse experiences since leaving JITS. Exchanging stories and memories, alumni reminisced about the transformative years spent at the institution. In a heartwarming gesture of appreciation and gratitude, The alumni felicitated the Chairman Sri. Juvvadi Sagar Rao during UNAKTI commemorating the Institution Silver Jubilee.



The event featured interactive sessions where alumni could engage in meaningful conversations with each other and with current students. Insights, career anecdotes, and life lessons were shared, creating a vibrant tapestry of collective wisdom.





# SILVER JUBILEE

## TELANGANA STATE LEVEL CHESS TOURNAMENT

In a momentous occasion as part of Jyothishmathi Institute of Technology and Science's (JITS) Silver Jubilee celebrations, Zilla Parishad CEO CH. Priyanka Karnan marked the commencement of a Two-Day Telangana State-Level Chess Tournament on September 2nd, 2022.



CH. Priyanka Karnan inaugurated the event by making the ceremonial firstmove, emphasizing the significance of sports alongside education. She encouraged students to engage in chess, highlighting its positive impact on cognitive abilities and stress management.



The tournament, featuring categories for college, high school, and upper primary school, will award cash prizes and trophies to the top three winners in each category. Special recognition in the form of trophies will be presented to the best district player and best women player, with a total prize pool of Rs 25,000 and 50 trophies.



JITS Chairman Sri. Juvvadi Sagar Rao, Principal Dr. K S Rao, Tournament Coordinator Vishwaprakash Babu, Organising Secretary R. Venkateshwar Rao, and Genius Chess Academy Director Kankati Anoop Kumar graced the event with their presence. The State-Level Chess Tournament stands as a testament to JITS's commitment to fostering both academic and sporting excellence.

## DISTRICT LEVEL BADMINTON CHAMPIONSHIP

In a spirited kick-off to the Silver Jubilee Celebrations of Jyothishmathi Institute of Technology and Science, Collector R V Karnan officially inaugurated the two-day Karimnagar District Level Badminton Championship at Dr B.R. Ambedkar Indoor Stadium on September 24, 2022.



# SILVER JUBILEE

Commending JITS for its commitment to quality education and holistic student development through sports, Collector R V Karnan encouraged students to actively participate in sports, fostering a competitive spirit and leadership qualities within them.

JITS Chairman Sri. J. Sagar Rao expressed the institution's dedication to uncovering hidden talents through various sports events as part of the Silver Jubilee celebrations. With over 200 participants in the district-level badminton championship, winners were awarded cash prizes and trophies totaling Rs 50,000.

The event was graced by the presence of Additional Collector GV Shyam Prasad Lal, DYSO K Rajaveeru, District Badminton Association Secretary Upender Rao, JITS Principal Dr. K.S Rao, and others, highlighting the collaborative spirit of JITS in promoting both academic and sporting excellence.



## UTSAV

In a dazzling display of jubilation, the Jyothishmathi Institute of Technology and Science (JITS) celebrated its Silver Jubilee, UTSAB, on December 3, 2022, that illuminated the campus in Karimnagar.



- Chief Guest Prof. Katta Narasimha Reddy, Vice Chancellor JNTUH, and Guest of Honor Prof. Uday B. Desai, former director IIT Hyderabad, graced the occasion.
- The eminent personalities planted saplings, symbolizing growth, and inaugurated the Research Centre recognized by JNTUH, dedicated to Ph.D. pursuits in Computer Science and Engineering.





# SILVER JUBILEE

- Prof. Katta Narasimha Reddy, in his address, encouraged students to pursue dual-degree courses with minor subjects, enhancing their employability.
- Expressing optimism, he anticipated that JITS would soon attain autonomous status from UGC, acknowledging its dedicated services in rural education.



- The Guest of Honor, Prof. Uday B. Desai, lauded the institution's academic initiatives for student development.
- He emphasized the importance of research across various domains and urged students and faculty to focus on the promising fields of climate change and sustainability.



- Dignitaries released a college souvenir, capturing the essence of JITS's journey over the past 25 years.
- The celebration witnessed the presence of key figures, including JITS Chairman Sri. Juvvadi Sagar Rao, Executive Director Sri. Juvvadi Amith Rao, Secretary & Correspondent Sri. Juvvadi Sumith Sai, Principals Dr. K. Srinivasa Rao & Dr. K. Vaishali, Dr. ShanmugaKumar, Retired Prof. Babu Rao, Prof. Bugga Rao, Prof. Nageshwar Rao, Special Invitee, and first batchalumnus, gold medalist from JNTUH Mr. Ekambareshwara Swamy.



**Chairman Sri Juvvadi Sagar Rao**



**Secretary & Correspondent Sri Juvvadi Sumith Sai**



# SILVER JUBILEE



**Principal Dr K S Rao**



**First batch alumnus**  
**Mr. Ekambareshwara Swamy**

- Prizes were awarded to the winners and runners of various sports and games events, as well as technical and cultural events that were conducted as part of Silver Jubilee celebrations



- Students stole the spotlight with scintillating performances, encompassing a mix of contemporary hits and soulful devotional songs, captivating the audience.





# sRjanA Nirmaan-2022

In a vibrant two-day National Level Technical Symposium, "sRjanA Nirmaan-2022", JITS opened the doors to a rich exploration of "Recent Trends in IoT and Artificial Intelligence for Engineering Applications". The symposium, which took place on 1st - 2nd July, 2022, designed to engage students at all levels, provided a dynamic platform for showcasing technical skills and innovative ideas from across India. The event fostered knowledge exchange, discussion on key emerging topics, and the exploration of future directions in technology.

## Paper Presentation

Total 32 batches participated, showcasing their ideas and research on IoT, Artificial Intelligence, Smart Sensors, and related topics. A diverse group of students including both BTech and Diploma students, actively contributed. Themes of the presented papers reflected the cutting-edge advancements in technology.



## Poster Presentation

Engaging 40 batches, students displayed their innovative ideas on various IoT applications, ranging from Medical and Home Appliances to Industry and Hacking Systems. Inclusivity was evident, with participants spanning across disciplines like CSE, ECE, EEE, Civil, and Mechanical.



## Coding Contest (Code - O - Quick)

Witnessing participation from 8 batches, the Code-O-Quick tested basic programming skills on topics such as Arrays, Strings, and Functions. The competition comprised multiple rounds, challenging students with pseudo codes, problem-solving, and program logic building.

## Spot Designing

Drawing creativity from 17 batches across various branches, Spot Designing showcased rapid ideation and execution within defined time limits.



# sRjanA Nirmaan-2022

## **Technical Quiz**

*With active participation from 34 batches, the Technical Quiz comprised rounds featuring MCQs, Jumbling words, Abbreviations, and Picture Identification.*



## **Project Expo**

*A staggering 111 batches participated in Project Expo, demonstrating a diverse range of projects from various branches. Noteworthy was the enthusiastic participation of first-year students, showcasing their innovative project ideas and executions.*



*Eminent personalities and experts, including heads and professors from diverse departments, served as esteemed jury members for each event, bringing a wealth of knowledge and experience.*



# BEYOND CLASSROOM HORIZONS

**"Java Programming" Training by Mr. Aravindha Swamy** In a significant stride towards women empowerment in the field of technology, Mr. Aravindha Swamy, an esteemed ICT Academy Trainer, conducted a specialized workshop on "Java Programming" in the Department of Computer Science and Engineering. This empowering workshop unfolded from June 20th to June 30th, 2022, fostering a supportive and inclusive Java

environment for women pursuing excellence in programming.



**Network Simulation 2 Workshop by Ms.K.Rasagnya**

In an immersive workshop experience, Ms. K. Rasagnya, an Associate Trainer from TASK, led a comprehensive session on "Network Simulation 2". This enriching workshop unfolded from October 10th to October 13th, 2022, offering participants a deep dive into the intricacies of network simulation.



Ms. K. Rasagnya, with her expertise in network simulation, guided participants through the advanced concepts covered in Network Simulation 2. The workshop aimed to enhance participants' proficiency in simulating and analyzing complex network scenarios.

**Cloud Computing Training Programme** In a transformative learning experience, Mrs. K. Divya, a Task Associate Trainer, took charge to guide students through a 2-Day Training Programme on "Cloud Computing". This insightful training, organized by the Department of Computer Science and Engineering in association with TASK, unfolded on July 4th and 5th, 2022.



Mrs. K. Divya, with her proficiency in cloud computing, led students through the intricacies of this transformative technology. The training aimed to provide participants with practical insights into the principles and applications of cloud computing.

**CodeTantra Training Program:** In a significant stride toward enhancing technical expertise, Jyothishmathi Institute of Technology and Science (JITS) conducted an intensive training program in collaboration with CodeTantra, Hyderabad. The program, tailored specifically for III and IV year students, focused on honing skills in Python programming and mastering essential data structures.



# BEYOND CLASSROOM HORIZONS

## **Bronze Medal at 4th Senior National Cestoball Championship**

In a remarkable display of sporting prowess, Mohammad Ameer Khan, a talented student from the Electrical and Electronics Engineering (EEE) department at Jyothishmathi Institute of Technology and Science (JITS), secured a bronze medal at the 4th Senior National Cestoball Championships for men and women 2022-23. The prestigious event unfolded in Bengaluru from September 30 to October 2, 2022.



## **Second year CSE student to represent the institution in All India Inter University Fencing Championship Tournament.**

In a remarkable sporting achievement, Ms. Sardarni Harpreeth Kour, a student from the second year of B.Tech in Computer Science and Engineering at Jyothishmathi Institute of Technology and Science (JITS), has been selected to represent the institution in the All India Inter University Fencing Championship Tournament. The event is scheduled to take place at the University of Jammu, Jammu, from 20th to 23rd December 2022.

## **Bathukamma Celebrations Blossom at JITS.**

Embracing the vibrant spirit of Telangana's floral festival, our campus came alive with colors and joy. Women and girls adorned in traditional attire gathered around intricately crafted Bathukamma to sing songs and celebrate the nine-day festival dedicated to Goddess Parvathi. JITS radiated with the lively energy of Bathukamma, creating a festive atmosphere that echoed the cultural richness of Telangana.



**CSI Sponsored Guest Lecture on "Turing Machine" by Mr. V. Vijaya Kumar** The Computer Society of India (CSI) at Jyothishmathi Institute of Technology & Science played host to an enlightening and insightful guest lecture on the topic of "Turing Machine". The lecture, delivered by Mr. V. Vijaya Kumar, a distinguished and highly regarded Professor of Computer Science and Engineering, Dean of Research & Development, and Chairman of the Board of Studies at Anuraag University, Hyderabad, the lecture, held on June 23, 2022, drew a diverse audience of students, faculty, and enthusiasts.

Mr. Vijay Kumar's expertise and interactive approach provided a profound learning experience, shedding light on the significance of Turing Machines in the dynamic field of computer science.



# BEYOND CLASSROOM HORIZONS

## **Guest Lecture by Sri Ramanamurthy Saripalli Inspires C Programming Projects**

Jyothishmathi Institute of Technology and Science's Department of Computer Science and Engineering (CSE) organized a motivating guest lecture on September 20, 2022. The session, led by Sri Ramanamurthy Saripalli, focused on encouraging students to delve into various projects within the realm of C programming. The event served as a dynamic platform for students to discover the potential of C programming and explore project opportunities.



## **JITS Launches Women Empowerment Center in Collaboration with Honeywell and ICT Academy**

In a significant stride towards fostering technological empowerment, the Jyothishmathi Institute of Technology and Science (JITS) has partnered with Honeywell and ICT Academy to unveil the Centre of Excellence for Women Empowerment on November 25, 2022. Mr.N.Amarnath, Assistant General Manager, Corporate and Government initiatives, emphasized the importance of technology skills in the evolving job market. The center's mission is to equip students with essential digital skills, including Big Data Analytics, AI, ML, and RPA. Through this initiative, 100 students will receive training in advanced technologies, coupled with global certifications from tech giants, enhancing their prospects for future placements. The program, spanning 100 hours, also includes opportunities for participation in hackathons and a youth empowerment summit. Four faculty members will undergo training in these cutting-edge technologies.



# BEYOND CLASSROOM HORIZONS

## Inauguration of the "Cyber Security Club"

On September 27, 2022, the Department of Computer Science Engineering at Jyothishmathi Institute of Technology witnessed the inauguration of the "Cyber Security Club". The event was graced by the presence of Mr. Sairam Palabindela, a distinguished Cyber Security Researcher from TSARO Labs, Michigan, USA.

In today's digital landscape, cybersecurity plays a pivotal role in the foundation of any modern business. The primary objective of the "Cyber Security Club" is to impart knowledge about cybersecurity, equipping individuals with the necessary skills to defend against contemporary computer exploits. The club aims to serve as a hub for learning and sharing insights into the rapidly evolving field of cybersecurity.

The overarching goal of cybersecurity is to prevent or mitigate harm to computer networks, applications, devices, and data. To formalize this commitment, a Memorandum of Understanding (MoU) was signed between the Department of CSE at JITS, Karimnagar, and "Cyberakta Pvt Ltd", Hyderabad.



## Coding Contest by Coding Club

The Coding Club of the Computer Science & Engineering Department orchestrated an event aimed at inspiring and evaluating the prowess of all B.Tech. students. This exhilarating contest, centered around C programming, witnessed enthusiastic participation from over a hundred students eager to put their skills and programming acumen to the test.



Conducted through a dynamic Google Form interface, the event comprehensively assessed participants across various dimensions. From debugging challenges to spot coding, analyzing correct outputs, and filling in missing code snippets, the assessment delved into diverse aspects, ensuring a thorough evaluation of the participants' coding capabilities.



# TECHNICAL CONTENT

## **Artificial Intelligence and Machine Learning: Transforming Industries**

Artificial Intelligence (AI) and Machine Learning (ML) are revolutionizing sectors like healthcare, finance, and entertainment. From predictive models in hospitals to chatbots handling customer service, AI and ML allow machines to learn from data and improve over time. Personalization is one of their key advantages, seen in platforms like Netflix, which curates suggestions based on user behavior.



In healthcare, AI aids in diagnosing diseases by analyzing complex medical data. Challenges arise with the ethical concerns surrounding AI, particularly in bias and transparency. Despite this, the future holds promise for innovations like explainable AI, which will allow systems to justify decisions, ensuring more accountability. With industries increasingly relying on data-driven approaches, AI and ML are paving the way for a smarter, more efficient world.

## **Blockchain: A New Era of Trust and Transparency**

Blockchain technology is much more than just the engine behind cryptocurrencies like Bitcoin. Its decentralized, tamper-proof ledger system is being adopted across industries to ensure transparency and reduce fraud. For instance, supply chain systems are now leveraging blockchain to trace product origins, ensuring authenticity in everything from food to luxury goods.

The rise of Decentralized Finance (DeFi) is also transforming financial systems, removing intermediaries like banks, allowing peer-to-peer lending, borrowing, and trading. However, challenges include scalability issues and energy consumption, particularly with proof-of-work blockchains like Bitcoin. Yet, as solutions such as proof-of-stake emerge, blockchain is set to reshape industries ranging from logistics to public governance.



## **5G: Revolutionizing Connectivity**

The fifth-generation mobile network, 5G, is set to revolutionize the way we connect. With speeds up to 100 times faster than 4G, it enables real-time communication and supports a massive number of connected devices, laying the foundation for the Internet of Things (IoT) and smart cities.

In healthcare, 5G makes remote surgeries and real-time medical consultations possible. For the automotive industry, it empowers autonomous vehicles to communicate seamlessly with their environment, enhancing safety. While infrastructure and security challenges remain, 5G's low-latency and ultra-fast speeds promise to transform industries, enabling innovations from VR classrooms to fully automated factories.



# STUDENT'S CORNER

## "AI's First Recipe Attempt"

- A robot chef proudly presents a dish labeled "Spaghetti," but it's actually just a tangle of charging cables and tomato sauce smeared on a plate.
- Caption: "When Generative AI interprets your recipe request."

*-CH.Gyathri*



## "AI's Excuse for Late Work"

- A student telling the teacher, "My Generative AI ate my homework." The Generative AI, looking guilty, holds a shredded paper with equations on it.

*D.Nikhitha*



## "AI and Exam Preparation"

- **Scenario:** A student asks Generative AI to help them prepare for an exam. The AI generates a 200-page study guide. Student: "Uh... do you have a TL;DR version?" AI: "Sure! Study everything."
- **Lesson:** Technology can help, but it can't replace common sense and focused studying!

*-A.Sathwika*

## "The Compiler's Revenge"

- **Scenario:** A student spends hours debugging their code only to realize they forgot a semicolon. Student: "Why didn't the compiler just tell me?!" Compiler: "I did. In 37 cryptic error messages."
- **Lesson:** Always check the small details before blaming the machine!

*-M.Saipraneeth*



## "The USB Struggle"

- **Scenario:** A student tries to plug in a USB drive. It doesn't fit. They flip it, try again—still doesn't fit. On the third try, it fits perfectly. Caption: "The universal truth of Universal Serial Bus."
- **Lesson:** Some mysteries in computer science are eternal.

*-P.Siddarth*

## "The 'Works on My Machine' Dilemma"

- **Scenario:** A student proudly demonstrates their program to the class. It runs perfectly on their laptop but crashes on every other computer. Student: "Well, it works on my machine."
- **Lesson:** Testing across environments is key!

*-K.Srinitha*

## "Coding Dreams"

- **Scenario:** A student dreams they're trapped in a maze, and every time they find an exit, a voice says, "Segmentation fault." Caption: "When you've been debugging C programs for way too long."
- **Lesson:** Balance your coding sessions with sleep!

*-M.Sreemukhi*



# EDITOR'S NOTE

As we conclude this edition, we want to extend our deepest gratitude to every member of the JITS family. Your unwavering dedication, passion, and contributions have been instrumental in shaping the success stories we celebrate today. Whether you are a student overcoming academic challenges, a faculty member guiding future leaders, or a staff member ensuring our institution runs smoothly, each of you plays an invaluable role in making Jyothishmathi the special community it is.

As Computer Science students, we are especially thankful to our faculty and staff for their continued support and guidance. The opportunities they provide have been pivotal to our growth, both academically and personally. As we embark on the next chapter of our journey, we do so with great excitement and optimism, knowing that the road ahead is bright with promise and camaraderie.

Best regards,

The Editorial Team

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