



JYOTHISHMATHI
GROUP OF INSTITUTIONS
ENGINEERING | PHARMACY | MBA | B.Ed
AUTONOMOUS
Engineering College



NEURANEX

Jan-June 2023 (Vol-II)



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.

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Program Educational Objectives (PEOs)

Fundamental Knowledge: Graduates will build a strong foundation in mathematics, computer science, and artificial intelligence principles to analyze, model, and solve complex problems in AI and Machine Learning.

Core Competencies: Graduates will gain expertise in core areas of Artificial Intelligence and Machine Learning, enabling them to design and implement intelligent systems for real-world applications.

Breadth: Graduates will acquire interdisciplinary knowledge to integrate AI/ML solutions across various domains such as healthcare, finance, robotics, and smart environments, adapting to emerging technologies and global needs.

Professionalism: Graduates will demonstrate ethical behavior, teamwork, leadership, and communication skills, contributing effectively in collaborative and multicultural work environments.

Learning Environment: Graduates will pursue lifelong learning through higher education, industry certifications, and innovation-driven projects in a dynamic and inclusive learning environment that nurtures creativity and entrepreneurial thinking.

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

**JYOTHISHMATHI**
INSTITUTE OF TECHNOLOGY AND SCIENCE



Always Ahead in Setting Academic Trends

Proudly announcing the

1st Engineering College in Karimnagar District with



**UGC
AUTONOMOUS
STATUS**

Congratulations to all the Stakeholders!!!

 +91 91775 53535

 www.jits.ac.in

 Karimnagar

We are thrilled to announce that our college has been granted UGC Autonomous status, making it the first Engineering College in Karimnagar District to achieve this prestigious honor. This milestone reflects our unwavering dedication to academic excellence, innovation, and student empowerment. With increased academic freedom and flexibility, we are committed to providing our students with a cutting-edge learning experience that prepares them for future challenges. We extend our heartfelt gratitude to our students, faculty, staff, alumni, and all stakeholders for their continuous support and encouragement.

TRAINING PROGRAMS

IOT TRAINING PROGRAM :-

- A Certificate Course on “**Internet of Things**” from 6th February 2023 to 9th June 2023. Resource persons Dr. P. Pranitha, Professor, CSE (AI&ML); Dr. V. Neelima, Professor, CSE (AI&ML); and G. Srikanth, Associate Professor, delivered their lecture to all students. The faculty members were active throughout all the sessions and enthusiastically participated. The session started with the introduction to IoT, Arduino programming with sensors like(LED,IR,Ultrasonic,SMOKE,DHT-11) , NodeMcu with sensors and the concept of Raspberry Pi is a low-cost, credit card-sized computer that connects to a computer monitor or TV using HDMI, and uses a standard keyboard and mouse. It can run a host of operating systems, such as Raspbian (Debian Linux).



- Training students in the Internet of Things (IoT) is crucial for preparing them for the future. IoT technology connects devices and systems, enabling them to communicate and share data, which is transforming various industries. By learning about IoT, students gain valuable skills in areas such as data analysis, programming, and network management. This knowledge not only enhances their technical abilities but also fosters critical thinking and problem-solving skills. Moreover, IoT training can make education more interactive and personalized, as connected devices can tailor learning experiences to individual needs¹². Ultimately, equipping students with IoT skills ensures they are well-prepared for the evolving job market and can contribute to innovative solutions in their future careers

GUEST LECTURES

An informative webinar on the latest trends and technologies in new-age telecommunications and digital services, led by our esteemed alumni. This event will take place on Monday, January 30, 2023. Attendees will have the opportunity to explore the cutting-edge developments that are shaping the telecommunications industry, including advancements in digital services and their impact on global connectivity. This session offers a unique chance to gain insights from industry leaders and engage with experts about the future of telecommunications.



Join us for an enlightening webinar on the latest trends and technologies in cloud computing, presented by our renowned alumni. This event will take place on Friday, January 20, 2023. Attendees will gain valuable insights into cutting-edge developments in cloud technology and how they are transforming various industries. This is a fantastic opportunity to learn from experts who are leading the way in the field, and to ask questions about the future of cloud computing.

The Jyothishmathi Institute of Technology and Science in Karimnagar hosted a seminar on "**Career and Research Opportunities**" in the Computer Science and Engineering department on June 27, 2023. The seminar featured Dr. G. Vijaya, a Professor in ECE and the Dean of R&D at SR University, Warangal, who shared insights into the latest research trends in Information Technology and discussed career opportunities in the IT sector. Dr. K.S. Rao, the Principal, Dr. R. Jegadeesan, the Head of the Department for CSE, and other faculty members were present at the event.



GUEST LECTURES

A guest lecture on "**DevOps and Selenium Automation Testing Tool with Java**" on Saturday, May 6, 2023. This lecture will provide an in-depth exploration of how DevOps practices and Selenium automation can be effectively integrated using Java to enhance software development and testing processes. Whether you're a student, developer, or IT professional, this session will offer valuable insights and practical knowledge to help you stay ahead in the rapidly evolving tech landscape.



On June 16, 2023, a guest lecture titled "**Introduction to Machine Learning**" was held. This event provided attendees with an insightful overview of machine learning concepts, techniques, and applications. The lecture aimed to introduce participants to the fundamentals of machine learning, including supervised and unsupervised learning, algorithms, and real-world use cases. The session was designed to cater to both beginners and those with some prior knowledge, ensuring a comprehensive understanding of the subject. The event was well-received, with attendees appreciating the opportunity to learn from an expert in the field.



On February 9, 2023, a guest lecture on "**Computer Organization and Architecture**" was conducted by a distinguished alumnus. This event provided an in-depth exploration of the fundamental principles and advanced concepts of computer organization and architecture. Attendees gained valuable insights into the structure, functionality, and design of computer systems, including topics such as CPU architecture, memory hierarchy, and input/output mechanisms. The lecture aimed to bridge theoretical knowledge with practical applications, enhancing the participants' understanding of how computer systems operate. The session was highly appreciated, offering a unique opportunity to learn from an experienced professional in the field.



COLLEGE EVENTS

Students of Jyothishmathi Institute of Technology and Science (Autonomous) in Karimnagar celebrated a vibrant **Fresher's party on March 2, 2023**. The event featured skits, dances, and live music, fostering a sense of community among new and senior students. JITS Chairman Sri. Juvvadi Sagar Rao highlighted the institute's achievements, including securing NAAC 'A' grade, NBA, and Autonomous status. He emphasized the importance of quality education and congratulated the students on their accomplishments. The celebration marked a joyful beginning for the new students, encouraging them to excel in their academic journey.



On January 26, 2023, the NSS unit celebrated the **74th Republic Day** by organizing various activities and distributing prizes to students at a government primary school in Thimmapur mandal. The prizes, sponsored by JITS chairman Sri. Sagar Rao, were given to students who participated in various competitions. The event, led by school officer Vishwaprakash Babu, highlighted the importance of community engagement and celebrated the students' achievements. Faculty members and other dignitaries were also present to support the initiative.

On March 10, 2023, Jyothishmathi Group Of Institutions congratulated B Aravind, for securing a placement with Orient Cement. Aravind achieved an impressive package of 3.25 LPA. The institution extended its best wishes for his future endeavors, celebrating his academic success and the opportunities ahead.

Student Achievements

Nalumachu Sowmya, a third-year B.Tech student, **won a gold medal in the Telangana state-level essay writing competition** organized by Sri Satya Sai Seva Organisation. The competition was held on the occasion of Satya Sai Baba's 97th birth anniversary at Puttaparthi, Andhra Pradesh. Sowmya received the gold medal and a citation from Union Minister for Tourism G. Kishan Reddy. The essay competition saw participation from 10,500 students across 145 schools and 35 colleges in Karimnagar district.



Students showcased their talents at the **National Level Games and Sports Meet** organized by the Kamala Institute of Technology and Science in Singapur, Huzurabad, Ms. Peddi Lahari won Exumbeance silver gala of glittering kamala state level sports fest, from Computer Science and Engineering, D.Bhargavi won, Womens_400 meter running for all group Athletics Championships 25 th and 26 th February-2023 at J.N Stadium Hanmakonda D.Bhargavi won Womens 400 Meter Hurdles Athletics Championships 25 th and 26 th May-2023 at Sardar Patel Stadium Khammam.



STUDENT & FACULTY ACHIEVEMENTS

Students selected for the prestigious **Chief Minister Cup Tournament**, a State Level Table Tennis event their hard work, dedication, and skills have truly paid off. This achievement is a testament to their commitment and passion for the sport. We are incredibly proud of their accomplishments and confident that they will represent JITS with excellence and sportsmanship.



Faculty Achievements:

NPTEL:

- **Dr.P.Pranitha**-Data Mining, Problem solving through PPS
- **Dr. V. Neelima**- Python for DataScience
-
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STUDENT INTERNSHIPS

Students are encouraged to pursue internships or industrial training with various industries during the summer break of their sixth semester. These experiences, lasting from one week to 20 days, to provide students with practical knowledge and exposure to professional environments. The hands-on experience gained during these internships bridges the gap between theoretical learning and real-world application, allowing students to work on live projects, interact with industry professionals, and learn about the latest technological advancements and trends. Skills like teamwork, communication, and problem-solving. Upon completion, they must submit a report detailing their training experience, which fosters innovative thinking and enhances their problem-solving abilities. Successful internships can lead to future job opportunities, helping students build professional networks and demonstrate their capabilities to potential employers.

H.T.NO	NAME OF THE STUDENT	NAME OF THE COMPANY	START DATE	END DATE
21271A6652	THRISHA	Codsoft	4/15/2024	5/15/2024
21271A6650	Sushma Sriramula	Octanet	5/1/2024	1/6/2024
21271A66B4	Anjana Boga	Shripriiti Educational & IT Hub	5/15/2024	6/15/2024
21271A6604	Shaik Afnan	CseEdge	4/20/2024	5/20/2024
21271A6645	Palamakula Sravan	Cognifyz	5/1/2024	6/1/2024
21271A6637	Saiprasanna Samudrala	OCTANET	4/1/2024	6/1/2024
21271A6637	Saiprasanna Samudrala	OCTANET	4/1/2024	6/1/2024
21271A6604	Shaik Afnan	CseEdge	4/20/2024	5/20/2024

FINAL YEAR PROJECTS

S.N.	Name of the Student & Semester	Name of the Publisher	Name of the Journal/ Conference, etc.	Volume No. & Issue No.
1	Reddy Sirumalle Anvitha Syed Fardeen Ahmed Farooqi Janke Ashwitha (IV-II)	IJRAR Publication	International Journal Of Research And Analytical Reviews	Volume 11, Issue 2, 2024, 2349-5138
2	Kunarapu Raju Sirigineni Ruchitha Srigadhi Savya Alladi Joseph (IV-II)	Drishtikon Prakashan	Heritage Research Journal	Volume 72, Issue 5, 2024, 0474-9030
3	Boddula Ambika Uppula Rohitha Mohammad Afthab (IV-II)	IJRAR Publication	International Journal Of Research And Analytical Reviews	Volume 11, Issue 2, 2024, 2349-5138
4	Kankanala Sathwik Reddy M Nithin Chandra Kanneboina Bhanuja (IV-II)	IJRAR Publication	International Journal Of Research And Analytical Reviews	Volume 11, Issue 2, 2024, 2349-5138
5	Kotte Srinitha Thangallapalli Shivani Bhukya Vijay Thupakula Vikas (IV-II)	IJNRD Publication	International Journal Of Novel Research And Development	Volume 9, Issue 5 2024, 2456-4184
6	Ankam Saikrishna Mende Srinath Kasturi Rohit Chigurla Manasa (IV-II)	IJRAR Publication	International Journal Of Research And Analytical Reviews	Volume 11, Issue 2, 2024, 2349-5138
7	Atla Praveen Kankanala Sri Chandana Mydam Anuhya Mule Vyshnavi (IV-II)	Drishtikon Prakashan	Heritage Research Journal	Volume 72, Issue 5, 2024, 0474-9030
8	Thumma Samatha Yennam Shirisha Pothireddy Siddarth (IV-II)	Xi'an University of Architecture and Technology	Journal Of Xi'an University Of Architecture & Technology	Volume XVI, Issue 5, 2024, 1006-7930

BEYOND CLASS ROOM HORIZONS

On February 14, 2023, a special event was held at UPS Ramakrishna Colony in Karimnagar to honor meritorious students from government schools. During the event, clothes and a total of Rs. 60,000 were distributed to the deserving students. This initiative aimed to recognize and reward the hard work and dedication of these young scholars, encouraging them to continue striving for excellence in their academic pursuits. The event was a heartwarming celebration of the students' achievements and a testament to the community's commitment to supporting education.



On March 4, 2023, the JITS-NSS Unit, in collaboration with Nehru Yuva Kendra, Karimnagar, organized the District Level Yuva Utsav-2023. This vibrant event featured a variety of competitions, including dance, painting, essay writing, photography, and elocution. The Yuva Utsav aimed to provide a platform for young talents to showcase their skills and creativity.



The National Service Scheme (NSS) unit of Jyothishmathi Institute of Technology and Science in Karimnagar, in collaboration with the Government General Hospital, held a blood donation camp on June 14, 2023, in observance of World Blood Donor Day. Fifty NSS volunteers participated in the event, contributing blood to aid those in need.



BEYOND CLASS ROOM HORIZONS

Students participated in a rally on March 29, 2023, to raise awareness about plastic pollution. The event, led by Principal Dr. K. Srinivasa Rao and other faculty members, saw students holding placards and banners with messages encouraging the reduction of plastic use. They visited various parts of the town, educating residents on the importance of avoiding plastic and promoting the use of cloth bags. The students also collected plastic waste from the streets and households, using eco- friendly materials like gunny bags and cloth banners for their campaign. The initiative was supported by local officials, including Deputy Mayor Challa Swaroopa Harishankar.



On March 6, 2020, the Indian Red Cross Society (IRCS) Karimnagar chapter, in collaboration with the NSS unit of Jyothishmathi Institute of Technology and Science (JITS), conducted a CPR awareness session. Students received hands-on training in administering CPR, learning essential life-saving skills. The session emphasized the importance of CPR in emergencies, with Dr. K. Srinivasa Rao highlighting the need for everyone to be trained in this technique. Faculty members from JITS's Pharmacy College and representatives from local hospitals also participated, making the event a comprehensive educational experience.

Robotics: Transforming Industries and Daily Life

Robotics has evolved from being a sci-fi concept to a real-world disruptor, with machines taking on tasks in manufacturing, healthcare, and even households. Industrial robots now operate with precision and efficiency, working alongside humans in smart factories to boost productivity. In healthcare, surgical robots assist doctors in performing delicate operations, while service robots are increasingly used for elderly care and companionship.



The integration of AI with robotics has further expanded its capabilities, making autonomous decision-making and task execution possible. With ongoing innovations, robots will continue to transform industries, handling dangerous, repetitive, and complex tasks that humans traditionally performed.



Cybersecurity: Safeguarding the Digital World

In today's hyper-connected world, cybersecurity is more critical than ever. As organizations and individuals move towards digital solutions, the risk of cyber-attacks grows. Ransomware, phishing, and data breaches are becoming common, with devastating consequences for businesses and governments alike.

To combat these threats, advancements in AI-driven cybersecurity are being developed, which can detect anomalies and respond to attacks in real time. Zero-trust architecture is also gaining traction, enforcing strict access controls to secure data. As digital transformation continues, so does the need for skilled cybersecurity professionals to defend against increasingly sophisticated cyber threats.

Clean Energy Technology: Powering a Sustainable Future

As climate change becomes an urgent global challenge, the demand for clean energy technologies is accelerating. Solar, wind, and renewable energy sources are at the forefront of this revolution, offering sustainable alternatives to fossil fuels. Advances in energy storage, such as next-gen batteries, are addressing issues related to the intermittency of renewable energy, making clean energy more reliable and scalable.



Governments and organizations worldwide are investing heavily in green technologies, from electric vehicles to smart grids that optimize energy distribution. These innovations not only aim to reduce carbon footprints but also promote energy independence, leading to a more sustainable and resilient energy future.

ALUMNI TALKS & 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 (AI&ML) 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.

Sri Juvvadi Sagar Rao

Chairman

Sri Juvvadi Sumith Sai

Secretary & Correspondent

Dr. K. S. Rao

Principal

Dr. P. K. Vaishali

Dean (Academics & Audit)

Dr. V. Neelima

Head of the Department

CSE(AI&ML)

Best regards, The Editorial Team **G. Pranavi,**

Assistant Professor, CSE(AI&ML) Dept

M. Sremukhi, IV B.Tech CSE (AI&ML)

Shafia Samreen, IV B.Tech CSE (AI&ML)



